

Gordon Research Conferences

2002 Winter and Spring Meetings

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2002 WINTER / SPRING CONFERENCE FEES

	Conferee			Adult Guest		
	Single	Double	Off-Site	Single	Double	Off-Site
California	\$825	\$730	\$595	\$655	\$560	\$425
California (Grad. Res. Seminar)	\$415	\$360	\$275	\$415	\$360	\$275
Il Ciocco, Italy	\$810	\$700	\$550	\$640	\$530	\$380

Conferees attending both **Metals in Biology** and the 3-day Graduate Research Seminar should add \$320 to the 5-day single room rate or \$280 to the 5-day double room rate.

GRC is a nonprofit organization managed by and for the benefit of the scientific community.

The 2002 Winter and Spring Gordon Research Conferences will be held in Ventura, California and Il Ciocco, Barga, Italy.

Attendance is limited - it is recommended that applicants apply immediately for early consideration by the Chair.

DIRECTOR

Carlyle B. Storm

DIRECTOR EMERITUS

Alexander M. Cruickshank

The Gordon Research Conferences web site at <http://www.grc.org/> contains the most up-to-date information we have for any given Conference. Be sure to take a look at the scientific program or any other information that has been posted.

Applications to any Conference can be submitted via our web site at <http://www.grc.org/attend.htm>, or feel free to copy the blank application form. More forms or additional information may be requested from:

Gordon Research Conferences
P.O. Box 984
West Kingston, RI 02892-0984

E-mail: grc@grc.org
FAX: 401-783-7644
Phone: 401-783-4011, ext. 100

The international Gordon Research Conferences were established with the continuing support of the Serono Foundation for the Advancement of Medical Science.

List of meetings, sessions and speakers:
(discussion leaders, where known, are italicized)

ANGIOTENSIN

IL CIOCCO
BARGA, ITALY
MAY 5-10, 2002
ALESSANDRO CAPPONI, CHAIR
KENNETH BAKER, VICE CHAIR

- **AT₂ Receptor Structure and Function**
(K. Catt / R. Stenkamp / S. Kamik / L. Hunyady / S. Laporte)
- **Post-Transcriptional Mechanisms Regulating AT Receptors**
(K. Sandberg / T. Thekkumkara / H. Ji / G. Nickenig)
- **Signalling and Function: New Aspects of the AT₂ Receptor**
(T. Unger / C. Chmurzynski / H.M. Siragy / U. Quitteler)
- **Genetics of Hypertension**
(X. Jeunemaitre / A. Dominiczak / G. Ailhaud / I. Phillips)
- **Angiotensin II Receptor Interacting Proteins: Scaffolds, Signals and Surprises**
(B. Berk / E. Clauser / K. Bernstein / T. Inagami)
- **Angiotensin and Oxidative Stress**
(K. Griendling / B. Berk / S. Eguchi / D. Harrison / T. Muenzel)
- **Angiotensin and Cardiac Cell Growth and Death**
(K. Baker / L. Kirshenbaum / R. Kitsis / R. A. Gottlieb / P. Anversa)
- **Tissue-Specific Transgenesis of Renin-Angiotensin System Genes**
(M. Paul / F. Luft / C. Sigmund / T. Pedrazzini / T. Reudelhuber / Y. Pinto)

- **Developmental Aspects of the Renin-Angiotensin System**
(P. Corvol / K. Gross / H. Nishimura / I. Ishikawa / A. Gomez)
- **Angiotensin and the Brain**
(J. Saavedra / W. Kuschinsky / P. Hum / M. Moskowitz)
- **Angiotensin II, Atherosclerosis and Inflammation**
(J. Egido / J. Diez / C. Ferrario)
- **New Therapeutic Tools Affecting the RAAS in Cardiovascular Disease**
(G. Williams / J. Burnett / H. Brunner / M. Weber)

BIOANALYTICAL SENSORS

HOLIDAY INN
VENTURA, CA
MAR 10-15, 2002
REINHARD RENNEBERG, CHAIR
MICHAEL NATAN, VICE CHAIR

- **Plenary Lectures**
(A. Hill / Mark Wightman)
- **Communication Between Enzymes and Sensors**
(G. Wilson / F.W. Scheller / W. Schuhmann)
- **Receptors and Receptor Sensors**
(H. Vogel / S. Michnick / M. Mrksich)
- **Antibody-Based Sensors**
(F. Ligler / B. Hock / P. Brown / Chris Rowe)
- **Particles for Multiplexing**
(M. Meyerhoff / W. Mahoney / J. Yguerabide / C. Keating)
- **Genomics, etc., and Bioanalytics**
(R. Mathies / L. Smith / A. Arkin / J. Sninsky)

Short Talks on

- Bioanalytics and Sensors**
(M. Natan / J. Shear / A. Katz / N. Sucher / N. Kelleher / P. Kremer / A. Lyon)
- **New Materials for Bioanalytical Sensors**
(D. Walt / F. Caruso / S.G. Weber / P. Wagner)
- **Neurochemical Monitoring**
(A. Andrews / R.T. Kennedy / A. Ewing / C. Amatore)

CEMENT-BASED MATERIALS, CHEMISTRY & PHYSICS OF
CLARION VENTURA BEACH HOTEL
VENTURA, CA
MAR 3-8, 2002
JAMES BEAUDOIN, CHAIR
CHRISTOPHER HALL, VICE CHAIR

- **The Physics and Chemistry of Special Cement Systems**
(D. Macphee / P.W. Brown / K. Scrivener)
- **Innovative Techniques for Microstructural Investigation**
(E. Schulson / W.J. McCarter / T.J. Mason / B. Balcom / J. Skibsted)
- **Cement Hydration Issues**
(D. Myers / M. Grutzeck / E. Gartner)
- **Transport Processes in Porous Systems**
(L.O. Nilsson / N. Martys / J. Marchand / K. Maekawa / D. Lockington)
- **Thermodynamics of Ion / Solid Interaction Mechanisms**
(M. Moranville / D. Damidot / J. Kirkpatrick)
- **Chemical Degradation Phenomena**
(E. Doehne / C. Andrade / R. Flatt / F.P. Glasser / J. Sharp)

- **Physical Degradation Mechanisms**
(V. Barogel-Bouny / Z. Bazant / O. Coussy)
- **Early Age Behavior of Hydrating Cement Systems**
(K. Kovler / E. Sellevold / K. von Breugel / F. Ulm / I. Richardson)
- **Innovation in Cement Composites**
(N. Berke / S.P. Shah / N. Banthia)

COLLOIDAL, MACROMOLECULAR & POLYELECTROLYTE SOLUTIONS

FOUR POINTS SHERATON

VENTURA, CA

FEB 3-8, 2002

ALICE GAST, CHAIR

BENJAMIN CHU &

MICHAEL RUBINSTEIN, CO-VICE CHAIRS

- **Self-Assembly on Surfaces**
(P. Hammond / H. Strey)
- **Self Assembly in Solution**
(E. Kaler / L. Magid / J.F. Berret)
- **Proteins and Membranes**
(S. Gruner / A. Lenhoff)
- **Colloidal Suspensions - Confinement, Fields and Rheology**
(D.W.M. Marr / J.L. Arauz-Lara / R. Buscall)
- **Supported Membranes and Thin Film Nanostructures**
(M. Longo / M. Srinivasaro)
- **Polymers and Proteins At Surfaces**
(M. Santore / D. Leckband / M. Rubenstein)
- **DNA in Flow**
(R. Larson / E. Shaqfeh)
- **Polyelectrolytes in Biophysics**
(R. Netz / W. Gelbart / J. Douglas)
- **Future Directions in Colloidal, Polyelectrolyte and Macromolecular Solution**
(E. Gulari / D.J. Pine / G. McCall)

COMPOSITES

CLARION VENTURA BEACH HOTEL

VENTURA, CA

JAN 6-11, 2002

LYNN PENN, CHAIR

JIM THOMASON, VICE CHAIR

- **Extreme Composites**
(O. Ochoa / R. Lakes)
- **Energy Absorbing Composites**
(T. Tsotsis / B. Fink / S. McKnight / B. Cox / X. Tao)
- **Night of Rapid Communications**
(C. Soutis / G. Carman / J. Martin / D. Woerdeman / A. Boccaccini / Y. Leterrier)
- **Processing and Manufacture**
(D. Baird / R. Parnas / H. Hsiao / N. Neves)
- **Engineered Tissues as Composite Materials**
(J. Mayer / D. Cohn / D. Mooney)
- **Elastomeric Composites**
(G. Hamed / A. Gent / S. Sternstein / G. Beaucage)
- **Multifunctional Composites**
(A. Lesser / S. White / D. Chung)
- **Nanocomposites**
(R. Bley / E. Giannelis / B. Files / G. Rutledge)
- **Revisiting Traditional Models**
(B. Lauke / C. Gauthier / A. Wang)

DRUG CARRIERS IN MEDICINE & BIOLOGY

HOLIDAY INN

VENTURA, CA

FEB 24-MAR 1, 2002

FRANK SZOKA &

VLADIMIR TORCHILIN, CO-CHAIRS

PETER SENTER &

JINDRICH KOPECEK, CO-VICE CHAIRS

- **The Endothelium as a Barrier and a Target for Drug Delivery**
(D. McDonald / G. Plowman / V. Muzykantov / P. Thorpe)
- **Drug Delivery into the Brain**
(W. Pardridge / E. Neuwalt / M. Saltzman / N. Bodor)
- **Blood Substitutes**
(R. Winslow / M. Intaglietta)
- **New Microfabricated and Nano Self-Assembling Devices for Drug Delivery**
(M. Cima / M. Prausnitz / T. Desai / A. Zakhidov / M. Tang)
- **Novel Carriers and Delivery Systems: Antibodies, Polymers, Liposomes**
(P. Constantinides / T. Kissel / R. Eisenberg / D. Ditscher / R. Duncan / T. Allen / J. Kopecek / F. Szoka)
- **Exploiting Biological Processes to Overcome Drug Delivery Barriers**
(V. Lee / L. Simpson / F. Harding / P. Swaan)
- **Targeted Diagnostics & Drug Delivery**
(G. Wolf / C. Meares / J. Babich / V. Kotliansky / P. Senter / P. Trail / V. Torchilin)

ELECTROCHEMISTRY

CLARION VENTURA BEACH HOTEL

VENTURA, CA

JAN 20-25, 2002

HENRY WHITE, CHAIR

MARK SPITLER, VICE CHAIR

- **Nanostructures and Electron Transfer**
(S. Feldberg / J. Gimzewski / C.E.D. Chidsey)
- **Electrochemical Powered Micromachines and Nanostructures**
(M. E. Williams / C.J. Kim / C. Mirkin / S. Chen)
- **STM and Quantum Wires**
(M. J. Weaver / N. Tao / K. Hipps)
- **Photons and Chiral Surfaces**
(H. D. Abrufia / G. A. Attard / J. Lenhard / J. Wilbur)
- **Planetary Science, Magnetic Fields and Pacemakers**
(L. Bottomly / S. Kounaves / J. Leddy / J. Norton)
- **Electrochemical Probes at Small Length Scales**
(D. Wipf / J. Macpherson / A. Hillier / D. Wall)
- **Organic and Inorganic Electrochemistry**
(D. Smith / D. Evans / M. Workentin / C. Amatore)
- **Interfacial Fields and Structures**
(K. Stevenson / T. K. Vanderlick / J.E. Pemberton)
- **Open Session**
(Mark Spitler)

FLORAL SCENT: BIOLOGY, CHEMISTRY & EVOLUTION OF

FOUR POINTS SHERATON

VENTURA, CA

MAR 3-8, 2002

HEIDI DOBSON & JETTE KNUDSEN, CO-CHAIRS

BRIAN SMITH & JOHN PICKETT, CO-VICE CHAIRS

- **Pollination Ecology and Evolution of Floral Scent**
(S. Armbruster / F. Schiestl / Y. Winter / R. Raguso / M. Dufay / S. Andersson / G. Gottsberger / K. Steiner)
- **Methodology and Chemistry**
(J. Pickett / R. Heath / R. Kaiser / W. Francke / W. Boland / A.-K. Borg-Karlson / C. Bicchi)
- **Neurophysiology of Scent Perception**
(B. Smith / R. Menzel / J. Hildebrand / K. Daly / L. Vossahl / L. Kay / R. Kanzaki)
- **Biosynthesis and Genetic Engineering**
(N. Dudareva / E. Pichersky / J. Bohlmann / B. Piechulla / N. Watanabe / J. Lucker / D. Weiss)

GLYCOLIPID & SPHINGOLIPID BIOLOGY

HOLIDAY INN

VENTURA, CA

JAN 27-FEB 1, 2002

ALFRED MERRILL, CHAIR

AKEMI SUZUKI, VICE CHAIR

- **Biophysical Aspects of Glyco(sphingo)lipids: From Rafts to Regulation**
(A. Futerman / S. Sonnino / P. Kinnunen / E. London)
- **Biosynthesis, Trafficking and Turnover**
(K. Sandhoff / G. van Meer / K. Hanada / R. Pagano)
- **(Glyco)sphingolipid Metabolism and Disease**
(L. Obeid / S. Ladisch / G. Nicholson / I. Tabas)
- **(Glyco)sphingolipids and Cell Signaling**
(S. Spiegel / R. Kolesnick / J. Gamble / B. Polk / K. Lynch)
- **(Glyco)sphingolipids in Controlling Cell Growth and Apoptosis in Disease**
(J. Shayman / T. Levade / M. Kester / E. Schmelz)
- **Complex (Glyco)sphingolipid Metabolism, Structure and Function**
(R. Schnaar / K. Furukawa / G. van Echten-Deckert / R. Proia)
- **(Glyco)sphingolipid-Receptor Interactions: Cellular and Extracellular (Viral) Ligands**
(C. Lingwood / S. Hakomori / M. Vinson / R. Blumenthal)
- **(Glyco)sphingolipids in Development and Differentiation**
(R. Kannagi / Y. Hirabayashi / J. Tilly / R. Bansal)
- **Biodiversity and the New Challenges of "Sphingolipidomics"**
(Y. Hannun / S. Pfeiffer / E. Heinz / R. Yu / A. Suzuki)

GRADUATE RESEARCH SEMINAR:

BIOINORGANIC CHEMISTRY

FOUR POINTS SHERATON

VENTURA, CA

JAN 24-27, 2002

ERNEST MAYNARD, CHAIR

CORA MACBETH, VICE CHAIR

- **Metalloenzyme Kinetics and Mechanism**
(P. Lindahl)
- **Rational and Combinatorial Metalloprotein Design**
(B. Gibney)

- **Metalloprotein Folding and Molecular Structure**
(C. Drennan)
- **Small-Molecule Models of Protein Active Sites**
(W. Tolman)
- **Metal-Nucleotide Interactions and Electron Transfer**
(Y. Lu)
- **Approaches to Metalloprotein Design**
(F. Arnold / B. Gibney)

ISOTOPES IN BIOLOGICAL & CHEMICAL SCIENCES
HOLIDAY INN
VENTURA, CA
FEB 17-22, 2002
HANS LIMBACH, CHAIR
DAVID SILVERMAN, VICE CHAIR

- **Equilibrium Isotope Effects**
(J. Bigeleisen / T. Driesner / F. Dehez / Y. Ono)
- **Isotope Effects on Hydrogen Bond Structure and Dynamics**
(M.M. Kreevoy / J. Del Bene / K. Aoki / D. Marx)
- **Isotopes in Polymers and Biopolymers**
(A. van Hook / M. Kainosho / Y. Melnichenko)
- **Isotope Effects in Chemical Dynamics**
(M. Wolfsberg / M. Quack / R.N. Zare / R.A. Marcus)
- **Hydrogen Isotope Effects in Organic Reactions**
(P. Huskey / J.P. Richard / E. Roduner)
- **Theory of Hydrogen Transfer in Condensed Phases**
(S. Schwartz / J. Ulstrup / Z. Smedarchina / R.I. Cukier)
- **Tunneling in Enzyme Reactions**
(A. Kohen / J. Klinman / J. Lipscomb)
- **Isotopic Probes of Enzyme Mechanisms**
(D. Silverman / V.L. Schramm / P. Fitzpatrick / P. Paneth)
- **Hydrogen Bonding and Solvent Isotope Effects in Enzymes**
(A.S. Mildvan / I.M. Kovach / D.H.T. Harrison)

LIGAND RECOGNITION & MOLECULAR GATING
IL CIOCCO
BARGA, ITALY
MAY 26-31, 2002
GEBHARD SCHERTLER, CHAIR
DENNIS DOUGHERTY, VICE CHAIR

- **Structure and Conformational Changes of 7 TM Receptors**
(E. Hulme / J. Wess)
- **Molecular Determinants of Ion Channel Gating**
(D. Papazian / J. Mindell)
- **Structure and Conformational Changes of Transporters**
(U. Gether / C.G. Tate)
- **Organisation of 7TM Receptors, Channels and Transporters into Larger Complexes**
(T. Schwartz / B. Molday)
- **Nucleotide Gated Channels**
(B. Kaup)
- **Nicotinic Receptor and Related Channels**
(T. Sixma / D.A. Dougherty)
- **Membrane Protein Assembly and 3D Structure**
(J. Popot / J. Lanyi)
- **Molecular Modelling of Channels Receptors and Transporters**
(D. Engelman / M. Sansom / K. Schulten)

- **Rhodopsin Structure, Function and Activation**
(W. Hubbell / J. Li)

MAGNESIUM IN BIOCHEMICAL PROCESSES & MEDICINE
HOLIDAY INN
VENTURA, CA
FEB 3-8, 2002
KLAUS BEYENBACH, CHAIR
JUERGEN VORMANN, VICE CHAIR

- **Magnesium Transport and Intracellular Magnesium Distribution**
(D. Günzel / I. Reynolds / F. Mooren / P. Flatman)
- **Magnesium and the Heart**
(E. Antman / M. Schechter / T. Mak / S. Gottlieb / D. Tzivoni / L. Resnick)
- **Magnesium, Genetics and Genomics**
(D.E.C. Cole / I. Meij / G. Quamme)
- **Molecular Biology of Magnesium**
(R. Schweyen / M. Maguire / R. Gardner / M. Schweigel / A. Fleig)
- **Magnesium, Inflammation and Immunology**
(I. Rayssiguier / A. Mazur / W.B. Weglicki / A. Nishio / C. Dubray)
- **Magnesium and Neuroscience**
(R. Vink / K. Muir / M. Delivoria-Papadopoulos / R. Lodi / M. Hoanez / C. Van Den Heuvel / P. Franken)
- **Magnesium in Development and Growth**
(F.I. Wolf / R.M. Touyz / J.A. Maier / R.C. Krueger)
- **Clinical Use of Magnesium**
(R. Rude / R. Elin / J. Nadler / K. Tucker / L. Massey / J.H. Kramer / F. Wong)
- **Magnesium and Public Health**
(K. Franz / M.S. Seelig / R. Rylander)

MAGNETIC NANOSTRUCTURES
IL CIOCCO
BARGA, ITALY
MAY 12-17, 2002
ROBERT CELOTTA, CHAIR
PATRICK BRUNO, VICE CHAIR

- **Ferromagnet-Semiconductor Spin Injection**
(B. Jonker / B.J. van Wees)
- **Ferromagnetic Semiconductors**
(H. MacDonald / T. Dietl)
- **Nanomagnetism Explored via Spin-Polarized STM**
(M. Bode)
- **Nanostructure Switching, Anisotropy and Magnetoresistance**
(W. Wemsdorfer / G. van der Laan / J.M.D. Coey)
- **Exchange Bias**
(A. Scholl / C. Leighton)
- **Current Driven Switching**
(A. Fert)
- **Ferromagnetic Imprinting of Nuclear Spins**
(R. Kawakami)
- **Magnetic Tunnel Junctions**
(W.H. Butler / W. Wulfhekel / S. Parkin)
- **Half-Metals**
(C.L. Chien / H. Akinaga)
- **Magnetic Imaging**
(H. Hug / C. Hammel)
- **Applications in Bio-Magnetoelectronics and Quantum Computing**
(G. Prinz / D. Loss)

MAMMARY GLAND BIOLOGY
IL CIOCCO
BARGA, ITALY
APR 28-MAY 3, 2002
CLIVE DICKSON, CHAIR
MARY HELEN BARCELLOS-HOFF & JEFFREY ROSEN, CO-VICE CHAIRS

- **Pre-Natal Mammary Gland Development**
(G. Robinson / S. Bellusci / K. Kratochwil / J. Wysolmerski)
- **Mammary Stem Cell Biology**
(C. Daniel / M. Goodell / M. Wicha / R. Clarke)
- **Paracrine Regulators of Mammary Gland Function**
(L. Hennighausen / Z. Werb / H. Beug / A. Lee / A. Ziemiecki)
- **Cell Cycle Regulation in Mammary Gland Development and Breast Cancer**
(M. H. Barcellos-Hoff / N. Hynes / C. Arteaga / P. Sicinski)
- **Hormone Regulation of Mammary Gland Development**
(B. Vonderhaar / M. Brown / O. Conneely / C. Ormandy)
- **Breast Cancer: Genes to New Therapies**
(J. Rosen / A. Venkitaraman / M. Dowsett / E. Jaffee / A. Wakeling)
- **Keynote Speakers**
(J. Taylor-Papadimitriou / H. Clevers)

MARINE NATURAL PRODUCTS
CLARION VENTURA BEACH HOTEL
VENTURA, CA
FEB 24-MAR 1, 2002
ALISON BUTLER, CHAIR
TED MOLINSKI, VICE CHAIR

- **Chemical Ecology**
(V. Paul / J. Kubanek / N. Lindquist)
- **Biosynthesis of Marine Natural Products**
(B. Moore / S. Matsuda / R. Kerr / J. Piel / M. Haygood / M. Izumikawa)
- **Drug Discovery**
(D.J. Faulkner / R. Andersen / C. Bewley / D. Burgoyne)
- **Natural Products from Marine Micro-organisms**
(M. Haygood / W. Fenical / P. Crews)
- **Marine Natural Products Isolation and Structure Determination**
(D.J. Faulkner)
- **Synthesis of Marine Natural Products**
(T. Molinski / L. Overman / J. Panek)
- **Marine Biomaterials and Bioinorganic Chemistry**
(A. Butler / H. Waite / H. Michibata)
- **Instrumentation and Methodologies**
(C. Bewley / M. Keller / R. Moore)
- **Marine Natural Products: Their Biological Activities, Applications and Pharmacology**
(V. Malhotra / D. Nagle / D. Rowley / W. Gerwick)

METALS IN BIOLOGY
FOUR POINTS SHERATON
VENTURA, CA
JAN 20-25, 2002
THOMAS O'HALLORAN, CHAIR
F. ANN WALKER, VICE CHAIR

- **Copper, Proteins, and Disease**
(S. Lippard / G. Brewer)
- **Superoxide and Metals**
(V. Culotta / I. Fridovich / J. Valentine / D. Riley / D. Kurtz)
- **Iron and Sulfur: Disease and Cluster Assembly**
(T. Rouault / J. Gitscher / J. Broderick / L. Vickery)

- **Cofactor Chemistry in Metalloenzyme Catalysis**
(L. Thiel / J. Penner-Hahn / A. Walker / B. Hoffman)
- **Microbial Nickel and Copper Chemistry**
(S. Franklin / M. Maroney / C. Reardon / D. Dooley)
- **Metal vs. Ligand Activation in Oxidation Catalysts**
(B. Tolman / A. Borovick / J. Mayer / J. Groves)
- **Imaging with Metals**
(J. Zaleski / T. Meade)
- **Specificity in Metalloregulatory and Metallochaperones Proteins**
(N. Robinson / D. Giedroc / D. Winge / I. Bertini)
- **Designing Electron Transfer Pathways**
(T. O'Halloran / H.B. Gray)

MOLECULAR & CELLULAR NEUROBIOLOGY

HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY
HONG KONG, CHINA
JUN 2-7, 2002
NANCY IP, CHAIR
LIQUAN LUO, VICE CHAIR

- **Axon Guidance and Neuron Migration**
(L. Luo / C. Goodman / M. Hatten / M. Poo / D. O'Leary / T. Curran / Y. Rao)
- **Ion Channels and Receptors**
(L. Mei / G. Fischbach / S. Heinemann / R. Huganir / M. Sheng / R. Klein)
- **Neural Development**
(X. He / R. Zigmund / L. Reichardt / R. Scheller / Y. Jan / S. McConnell)
- **Neural Plasticity and Behaviour**
(L. Reichardt / C. Shatz / R. Horvitz / T. Hensch / M. Ito / M. Constantine-Paton / T. Bonhoeffer)
- **Neurobiology of Diseases**
(B. Lu / L. Tsai / V. Lee / R. Tanzi)
- **Trophic Factors and Cell Death**
(N. Ip / D. Kaplan / N. Nicola / J. Yuan / M. Raff / M. Chao)
- **Special Lecture**
(M. Poo / P. Greengard)
- **Short Talks**
(J. Ngai)

MOLECULAR & IONIC CLUSTERS

FOUR POINTS SHERATON
VENTURA, CA
JAN 6-11, 2002
JAMES LISY, CHAIR
TIMOTHY ZWIER & KLAUS MULLER-DETHLEFS, CO-VICE CHAIRS

- **High Resolution Spectroscopy**
(M. Havenith / D. Pratt / W. Klemperer)
- **Hydrogen-Bonding**
(T. Zwieter / M. Suhm / S. Xantheas / N. Mikami)
- **Water**
(D. Clary / E. Davidson / P. Devlin)
- **Cluster Dynamics**
(D. Nesbitt / M. Lester / C. Hynes / P. Brechignac)
- **Intermolecular Potentials**
(J. Hutson / N. Halberstadt / B. Gerber)
- **Applications**
(R. Miller / L. Posey / V. Vaida / M. Bowers)
- **Ionic Clusters**
(H.-C. Chang / O. Dopfer / M. Johnson)
- **Vibronic Spectroscopy**
(K. Müller-Dethlefs / S. Leutwyler / J. Simons / M. Topp)
- **Excess Electrons**
(K. Fuke / L.-S. Wang / K. Bowen)

MOLECULAR EVOLUTION

FOUR POINTS SHERATON
VENTURA, CA
JAN 13-18, 2002
MARGARET RILEY, CHAIR
MICHAEL CLEGG, VICE CHAIR

- **Evolution of Development**
(B. Swalla / G. Wagner / A. Burke / E. Kellogg / K. Peichel)
- **Comparative Genomics**
(M. Cummings / B. Gaut / A. Clark / J. Blanchard)
- **Comparative Genomics II**
(J. Kim / K. White / J. Wernegreen / S. Edwards)
- **Origin of Sex**
(L. Chao / J. Logsdon / S. Otto / M. Meselson / R. Redfield)
- **Evolution of Novelty**
(S. Rosenberg / Y. Tan / A. Dean)
- **Tree of Life**
(F. Doolittle / G. Olsen / T. Warnow / D. Moreira / M. Sanderson)
- **Origin and Diversification of Eukaryotes**
(L. Katz / B. Martin / S. Baldauf / M. Sogin / G. Burger)
- **Evolution of Infectious Disease and Resistance**
(T. Whittam / N. Perna / R. Dorit / R. Bush)
- **Molecular Population Genetics**
(M. Clegg / M. Aguade / C. Aquadro)

MUTAGENESIS & CARCINOGENESIS

HOLIDAY INN
VENTURA, CA
MAR 3-8, 2002
EDWARD LOECHLER, CHAIR
LAWRENCE MARNETT, VICE CHAIR

- **Structural/Conformational Studies on DNA Lesions**
(N. Geacintov / M. Cosman / D. Jerina)
- **Lesion Mutagenesis**
(J. Essigmann / R. Fuchs / J.-S. Taylor)
- **DNA Polymerases I (Structure/Function)**
(S. Wilson / L. Beese / T. Spratt)
- **DNA Polymerases II (Biological Roles)**
(L. Prakash / Z. Livneh / M. Christman)
- **DNA Repair I (Protein/DNA Interactions, Structure and Function)**
(B. Singer / S. Lloyd / S. David)
- **DNA Repair II (Recombinational Avoidance Mechanisms)**
(M. Cox / M. Moriya)
- **Cellular Responses to DNA Damage I (Late-Breaking Matters)**
(L. Loeb / N. Tretyakova)
- **Cellular Responses to DNA Damage II (Cell Cycle Effects)**
(C. Vaziri / P. Nghiem / L. Karnitz / B. Baber)
- **Mutations in Carcinogenesis**
(C. Harris / D. Sidransky / P. Jones)

MYELIN

CLARION VENTURA BEACH HOTEL
VENTURA, CA
FEB 3-8, 2002
MARIE FILBIN, CHAIR
BORIS ZALC, VICE CHAIR

- **Plenary Lecture**
(M. Schachner)
- **Immune Cells in Regeneration and Re-Myelination**
(M. Schwartz / Sam David / Hans Keirsted)
- **Glial / Neuron Signaling**
(B. Barres / S. O'Leary / R. Robitaille / D. Weinstein)
- **Oligo Dendrocyte Determination**
(B. Zalc / W. Richardson / R. Miller / D. Anderson)

- **Schwann Cell Determination**
(M. Bronner-Fraser / R. Mirsky)
- **Perspectives**
(D. Colman / F. Lublin / H.D. Webster / D. Rasminsky)
- **Non-Compact Myelin**
(O. Peles / P. Brophy / J. Salzer)
- **Signaling and Cell Cycle in Myelinating Cells**
(V. Gallo / D. Fields / C. Lubetski)
- **Stem Cells**
(F. Doesch / H. Okano)

NEW FRONTIERS IN CANCER

DETECTION & DIAGNOSIS (NEW)
CLARION VENTURA BEACH HOTEL
VENTURA, CA
MAR 10-15, 2002
SUDHIR SRIVASTAVA & DAVID FISHMAN, CO-CHAIRS

- **The Hypothesis Behind Early Detection**
(A. Gazdar / R. Klusner / L. Hartwell)
- **Translational Research Discovery: From Bench to the Bedside**
(B. Levin / J. Folkman / G. Mills / N. Maithe)
- **Clinical and Epidemiologic Approach for Cancer Risk Assessment**
(M. Spitz / M. Pollack / N. Urban / H. Mohrenweiser)
- **Molecular Profiling for Cancer Detection**
(E.T. Liu / J. Fidler / P. Brown / R. Caprioli)
- **Comprehensive Molecular Approaches for Molecular Analysis of Cancer**
(S. Hanash / L. Hood / G. Wright / K. Buetow)
- **Molecular Screening of Cancer**
(D. Sidransky / O. Kallioniemi / E. Petricoin)
- **Applications of Innovative Imaging Technology in Cancer Detection**
(R. Smith / E. Hendrick / G.A. Johnson / R. Weissleder)
- **Statistical and Computational Tools for the Analysis of Cancer Research**
(Z. Feng / B. Efrom / T. Speed / D. Haynor)
- **Developing Technologies for Early Detection**
(T. Hamilton / B. Kacinski / J. Trent / V. Velculescu)

ORIGIN OF LIFE

HOLIDAY INN
VENTURA, CA
JAN 6-11, 2002
KENNETH NEALSON, CHAIR
J PETER GOGARTEN, VICE CHAIR

- **Introduction**
(L. Orgel / M.R. Ghadiri)
- **The Early Co-Evolution of Earth and Life**
(R. Rye / S.J. Mojzsis / J. Farquhar / Y. Shen)
- **Chemistry of Hydrothermal Systems**
(G. Cody / A. Sharma / K. Matsuno)
- **Information, Regulation and Evolution of Cells**
(E. Gaidos / E. Perez-Rueda / Y. Brun / D. Kaiser / C. Rao)
- **Rapid Evolution in Response to Stress**
(S. Finkel / P. Foster / S. Rutherford)
- **Extremophiles and the Evolution of Life**
(J.F. Holden / F. Robb / H. Mjlykallio)
- **Experimental Evolution**
(M. Travisano / B. Bohannan / C. Burch)
- **Biosignatures and the Search for Life**
(G. McDonald / A. Anbar / M. Coleman)
- **Keynote Speaker**
(A. Lazcano)

OXYGEN RADICALS

CLARION VENTURA BEACH HOTEL

VENTURA, CA

FEB 10-15, 2002

ANN AUST &

CHRISTINE WINTERBOURN, CO-CHAIRS

VICTOR DARLEY-USMAR &

HARRY ISCHIROPOULOS, CO-VICE CHAIRS

- **Novel Antioxidant Actions**
(R. Stocker / D. Morre / A.K. Jaiswal / S. Doctrow / N. Noguchi)
- **Oxidative DNA Damage and Repair**
(R. Mason / C. Burrows / S. Leadon)
- **Reactive Oxidants and Cancer**
(A.E. Aust / C.C. Harris / T. Hei)
- **Mitochondrial Function in Health and Disease**
(V. Darley-USmar / M.P. Murphy / D. Green)
- **Antioxidant and Signaling Functions of Thiol Enzymes**
(H.J. Forman / A. Claiborne / S.G. Rhee / A. Holmgren / A. Fisher)
- **Thiol Regulation of Protein Function**
(C. Winterbourn / G. Powis / C. White)
- **Protein Oxidation and Disease**
(A.J. Kettle / C. Schoneich / M. Davies / S. Hazen / A. van der Vliet)
- **Mitochondrial Function in Health and Disease**
(J. Beckman / C. Giulivi / T. Hinze)
- **Microbial Killing and Survival**
(H. Ischiropoulos / J. Imlay / R. Radi / C. Nathan / F. Fang)
- **Plenary Lecture**
(A.E. Aust / C. Winterbourn / L. Marnett)

PEPTIDES, CHEMISTRY & BIOLOGY OF

CLARION VENTURA BEACH HOTEL

VENTURA, CA

FEB 17-22, 2002

JEFFREY KELLY & VICTOR HRUBY, CO-CHAIRS

JANE ALDRICH &

THOMAS KODADEK, CO-VICE CHAIRS

- **Keynote Speakers**
(J.W. Kelly / V.J. Hruby / P.G. Schultz / J. Wells)
- **Peptides and Proteomics**
(J.A. Chmielewski / J. Yates / M. Bogoy / B. Cravatt / N. Pavelitch)
- **The Chemistry and Biology of Peptides/Protein & Membranes**
(C. Deber / G. Chang / S. White)
- **Delivery of Peptides and Proteins**
(R.T. Borchardt / J. Patton / T. Siahaan / A.L. Bay / J. Cleland)
- **Peptide Signal Transduction and Genetics**
(C. Haskell-Luevano / Y. Patel / B. Conklin / I.S. Forooqi)
- **Biophysics Methods in Peptide/Protein Research**
(R. Hodges / J. Schaefer / D.F. Mierke / H. Kessler / G. Tollin)
- **Peptide and Peptide Mimetic Drug Design & Development**
(D. Rich / R. Hirschmann / B. Maryanoff / M.R. Ghadiri / M. Verlander)
- **Young Investigator's Symposium**
(M. Goodman / A. Spatola / P. Seeberger / E. Powers)

PHOTOSENSORY RECEPTORS & SIGNAL TRANSDUCTION (NEW)

IL CIOCCO

BARGA, ITALY

MAY 19-24, 2002

JOHN SPUDICH, CHAIR

PILL-SOON SONG, VICE CHAIR

- **Rhodopsins: Atomic Structure & Activation**
(J. Spudich / H. Luecke / G. Schertler / J. Lanyi / R. Henderson)
- **Microbial Rhodopsins**
(S. Braslavsky / O. Bèjà / K-H. Jung / M. Engelhard / N. Kamo)
- **Photosensory Receptors in Eukaryotic Microbes**
(F. Lenzi / T. Takahashi / M. Watanabe / L. Brown / G. Macino)
- **Mammalian Visual Pigments**
(G. Schertler / T. Ebrey / K.P. Hofmann / K. Ridge)
- **Photosensors & Circadian Rhythms**
(J.W. Hastings / S. Kay / S. Golden / C. Johnson / J. Loros)
- **Phytochromes**
(P-S. Song / J. Chory / R. Viestra / M. Furuya / W. Gärtner / P. Quail)
- **Cryptochromes**
(S. Kay / A. Cashmore / X-W. Deng / A. Sancar)
- **Phototropins**
(P. Quail / W. Briggs / J. Christie / M. Wada)
- **Photoactive Yellow Proteins**
(J. Armitage / K. Hellingwerf / F. Tokunaga / W. Hoff)

PINEAL CELL BIOLOGY

HOLIDAY INN

VENTURA, CA

FEB 10-15, 2002

CARLA GREEN, CHAIR

ELIZABETH MAYWOOD, VICE CHAIR

- **Regulation of Melatonin Synthesis**
(D. Klein / M. Menaker / S. Coon / S. Ganguly)
- **Nonvisual Phototransduction**
(R. Foster / I. Provencio / R. Van Gelder / D. Berson / R. Lucas)
- **Signal Transduction I**
(M. Zatz / S. Dryer / K-W. Yau / Y. Fukada)
- **Melatonin Actions I (Human)**
(D. Skene / K. Wright / J. Arendt / R. Costello / S. Hill)
- **Regulation of Gene Expression**
(P. Voisin / S. Blackshaw / R. Baler / J. Liang)
- **Signal Transduction II**
(G. Tosini / C. Fukahara / A. Ho / J. Borjigin / P.M. Iuvone)
- **Circadian Mechanisms**
(C. Green / S. Reppert / G. Cahill)
- **Photoperiodism**
(E. Maywood / M. Hastings / A. Loudon / H. de la Iglesia / C. Kyriacou)
- **Melatonin Action II (Non-Human)**
(M. Dubocovich / D. Hazlerigg / J. Stehle / V. Cassone)

PROLACTIN

FOUR POINTS SHERATON

VENTURA, CA

JAN 27-FEB 1, 2002

PAUL KELLY, CHAIR

SHLOMO MELMED, VICE CHAIR

- **Debate: Do PRL and GH Cause Cancer?**
(P.A. Kelly / J.M. Holly / S.M. Shalet)

- **Mouse Models, Microarray Analyses and Proteomics**
(A. Gutierrez-Hartmann / M. Hrabé-De Angelis / G. Norstedt / C.J. Ormandy / D.M. Desidero)
- **PRL and GH Physiology**
(G. Gabori / D. Kleinberg / O. Isaksson / F.F. Casanueva)
- **Pituitary Development and Regulation**
(N. Ben-Jonathan / K. Schuff / P. Mellon / R. Abbud / M.O. Thoner)
- **Agonists, Antagonists and Assays**
(J. Kopchick / V. Goffin / P.J. Trainer / C.J. Strasburger)
- **Effects of PRL and GH in Peripheral Tissues**
(E.L. Hooghe-Peters / A. Moldrup / M. Freemark / N. Horseman / R.W. McMurray)
- **Behavior and Lifestyles**
(S. Berry / I.D. Neumann / S. Lamberts)
- **PRL and GH Signaling**
(L. Schuler / L. Yu-Lee / S. Ali / C.V. Clevenger / D.R. Clemmons)
- **Keynote Address: Pituitary Development**
(S. Melmed / M.G. Rosenfeld)

PROTEIN FOLDING DYNAMICS (NEW)

HOLIDAY INN

VENTURA, CA

JAN 20-25, 2002

JAY WINKLER, CHAIR

JOSE ONUCHIC, VICE CHAIR

- **New and Old Views of Protein Folding**
(R. Baldwin / P. Wolynes / K. Dill)
- **Two & Three State Folding, and Phi Analysis**
(C.R. Matthews / A. Fersht / M. Oliveberg / E. Shakhnovich / S. Marqusee)
- **Residual Structures in Unfolded Proteins**
(K. Bren / I. Bertini / P. Wright)
- **Peptide Dynamics and Secondary Structure Formation**
(N. Andersen / W. Eaton / C. Brooks / R.B. Dyer / L. Serrano)
- **Computation and Design**
(H. Scheraga / W. Swope / V. Pande / V. Daggett)
- **Early Events in Protein Folding**
(D. Kliger / H. Roder / J. Onuchic / S.W. Englander / M. Gruebele)
- **In vivo Folding: Molecular Chaperones and Proteases**
(R. Sauer / U. Hartl / D. Agard)
- **New Frontiers in Biopolymer Folding Research**
(A. Robertson / X. Zhuang / P. Jennings / D. Baker / D. Thirumalai)
- **Protein Folding and Disease**
(J. Clarke / C. Dobson)

QUINONE & REDOXACTIVE

AMINO ACID COFACTORS

HOLIDAY INN

VENTURA, CA

JAN 13-18, 2002

JUDITH KLINMAN, CHAIR

- **Tyrosyl/Thiyl Radicals in Ribonucleotide Reductase**
(J. Stubbe / B.M. Sjöberg)
- **Radicals in Catalysis**
(Y. Knappe / D. Dooley / W. Van der Donk / N. Lewis)
- **Radicals in Catalysis/Biogenesis of Fe/S**
(M. Marietta / D. Dean / R. Lill)
- **Quinones: Catalysis**
(M. McPherson / P. Siegbahn / H. Gray / K. Tanizawa)

- **Quinones: Catalysis and Signaling**
(V. Davidson / S. Jalkanen / S. Rhee)
- **PSII and Cytochrome Oxidase:
Tribute to Jerry Babcock**
(D. Britt / T. Kitagawa / P. Brzezinski /
H. Michel)
- **Non-Redox, Protein-Derived Cofactors**
(R. Tsien / E. Remington / J. Reley)
- **Sulfur-Containing Cofactors**
(A. Claiborne / J. Jarrett /
M. Fontecave / T. Begley)
- **B-12 and SAM as Radical Generators**
(R. Banerjee / P. Frey)

REVERSIBLE ASSOCIATIONS IN STRUCTURAL & MOLECULAR BIOLOGY

FOUR POINTS SHERATON
VENTURA, CA
FEB 10-15, 2002
PRESTON HENSLEY, CHAIR
EDWARD EISENSTEIN, VICE CHAIR

- **Advancing Quantitative
Approaches for the Analysis of
Macromolecular Interactions**
(O. Byron / D. Svergun / J.M. Fernandez)
- **Conformational Heterogeneity and
Biological Function**
(V.J. Hilser / R. Fox / J. Wand / W. Bolen)
- **Structural Energetics of
Protein-Ligand Interactions**
(K.P. Murphy / E. Freire /
E.H. Garcia / A.H. Elcock)
- **Macromolecular Interactions
Involving RNA**
(D. Draper / V. Misra / P. Bevilacqua /
P. Gollnick)
- **Function and Regulation of
G-Coupled Protein Receptors -
Understanding Signal Transduction**
(E. Ross / J. Ferrell / T. Meyer)
- **Studying Protein Dynamics in
Living Cells**
(J. Lippincott-Schwartz)
- **Macromolecular Crowding and
Confinement as Driving Forces for Inter-
and Intra-Molecular Association**
(A. Minton / F.U. Hardt / C-C. Wang /
G.J. Pielak)
- **Global Discovery and Description of
Molecular Interactions**
(S. Carr)
- **Recent Advances in First
Principle Methods**
(T. Laue / J. Durant / P. Schuck /
M. Rocco)

ROCK DEFORMATION

IL CIOCCO
BARGA, ITALY
MAY 19-24, 2002
ERNIE RUTTER, CHAIR
ANDREAS KRONENBERG, VICE CHAIR

- **Setting the Scene**
(J. Fredrich / T. Fong Wong / F. Chester)
- **Deformation of Porous and
Anisotropic Materials**
(D. Olgaard / H. Mulhaus / A. Aydin /
C. Passchier)
- **High Temperature/Pressure
Ductility and Localization**
(W. Durham / M. Paterson / S. Kirby)
- **Microstructural and
Chemical Processes**
(H. Stuenkel / K. Kunze / H. de Bresser /
B. van der Pluijm)
- **Fracture and Flow Modeling**
(B. Hobbs / J. Rudnicki / M. Jessell)
- **Evolution of Physical Properties**
(R. Knipe / I. Main / J. Urai / Q. Fisher)
- **Role of Localized Deformation in Crustal
Evolution**
(R. Bruhn / R. Holdsworth / K. Schulman)

- **Faulting and Friction**
(M. Zoback / A. McGarr / M. Blanpied /
J. Townend)
- **Localized vs. Distributed Flow in
Partially Molten Rocks**
(M. Brown / M. Zimmerman / E. Sawyer)

SENSORY TRANSDUCTION IN MICROORGANISMS

CLARION VENTURA BEACH HOTEL
VENTURA, CA
JAN 13-18, 2002
JEFFREY SEGALL, CHAIR
JUDITH ARMITAGE, VICE CHAIR

- **Cell-Cell Interactions and Sensory
Transduction**
(D. Zusman / G. O'Toole / J. Kirby /
R. Bally / R. Arkowitz / R. Gomer)
- **Receptor Signaling - Signal Detection**
(J. Spudich / M. Gilles-Gonzalez /
J. Van Houten)
- **Receptor Signaling -
Crossing the Membrane**
(R. Dahlquist / J. Falke / S. Parkinson /
D. Bray / K. Blumer / P. Luporini)
- **Receptor Coupling to
Intracellular Pathways**
(J. Armitage / A. Martin / J. Hazelbauer /
R. Preston / J. Lengeler)
- **Intracellular Signal Networking**
(P. Matsumura / G. Ordal / A. Stock /
R. Silversmith / M. Eisenbach /
A. Kimmel / M. Peter / J. Schultz)
- **Spatial Sensing Mechanisms**
(K. Borkovich / L. Rothfield /
C. Jacobs / R. Firtel / P. Devreotes /
O. Weiner)
- **Genomic/Proteomic
Approaches to Signaling**
(P. Greenberg / J. Maddock /
W. Loomis / M. Snyder)
- **Bacterial Motility**
(H. Berg / R. Macnab / C. Aizawa /
A. Blocker / W. Shi / K. Namba)
- **Eukaryotic Motility**
(P. Satir / W. Sale / F. Chang)

SPIROCHETES, BIOLOGY OF

CLARION VENTURA BEACH HOTEL
VENTURA, CA
JAN 27-FEB 1, 2002
RICHARD ZUERNER, CHAIR
JANIS WEIS, VICE CHAIR

- **Evolution and Diversity**
(D. Dykhuizen / G. Weinstock /
A. Barbour / T. Stanton)
- **Gene Organization,
Expression, Function**
(P. Rosa / H. Kuramitsu / M. Picardeau /
K. Tilly / B. Stevenson)
- **Genomic and Proteomic Analysis**
(S. Norris / S. Casjens / G. Chaconas /
T. Palzkill)
- **Host Parasite Interactions I:
Attachment Factors**
(M. H  k / L. Hakkinen / B. Johnson /
J. Coburn / C. Cameron / M. Furie)
- **Host-Parasite Interactions II:
Inflammation and Innate Immunity**
(J. Radolf / C. Overall / U. Gobel /
M. Wooten)
- **Antigens and Host Response**
(M. Lovett / L. Bockenstedt / B. Huber /
J. Matsunaga / C. Heimerl / R. Ellen)
- **Biology, Physiology,
Structure, Ecology**
(B. Wilske / P. Greenberg / N. Charon /
F. Gherardini)
- **Spirochetal Membranes and
Membrane Proteins**
(S. Lukehart / T. Schwan /
A. Centurion-Lara / R. Marconi /
C. Eicken / C. Lawson)

- **Late-Breaking Session**
(K. Tilly / W. Van Vooris)

THROMBOLYSIS

FOUR POINTS SHERATON
VENTURA, CA
FEB 17-22, 2002
JAY DEGEN, CHAIR
DANIEL LAWRENCE & NUALA BOOTH, CO-VICE
CHAIRS

- **Molecular Analysis of
Structure and Function**
(E. Madison / R. Doolittle / R. Carrell)
- **Neurobiology and
Hemostasis-Related Proteases**
(S. Strickland / L. Miles / D. Strickland /
M. Yepes)
- **Role of PA System in Tissue
Repair and Fibrosis**
(D. Loskutoff / D. Vaughan / R. Simon /
J. Bezerra)
- **The Serine Protease /
Metalloprotease Axis**
(S. Weiss / Z. Werb / R. Lijnen / L. Lund)
- **Thrombolysis and the Vessel Wall**
(N. Booth / D. Dichek / D. Eitzman)
- **Genetic Interactions and
Phenotypic Modifiers**
(D. Ginsburg / D. Collen / F. Castellino /
S. Coughlin / H. Weiler)
- **Hot Topics from Abstracts**
(J. Degen / S. Rosenberg)
- **Angiogenesis and Tumor Biology**
(D. Lawrence / J. Palumbo)
- **uPAR, Membrane Events and Signaling**
(S. Gonias / H. Chapman / H. Herschman)



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☐ Government Agency
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☐ Postdoc
☐ Professor
☐ Research Scientist
☐ Research Director
☐ Program Manager
☐ Other

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☐ 1-5
☐ 6-10
☐ 10+

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How many papers have you published during the past three years in the subject area of the conference? _____

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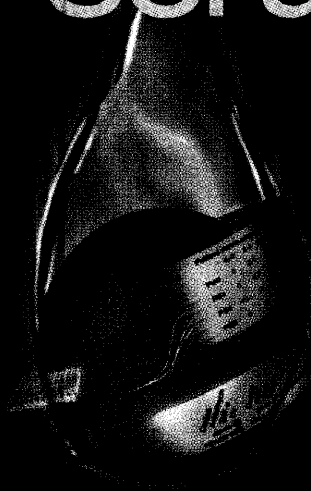
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MAKING GENES JUMP

The emergence of DNA chips and arrays has allowed for the simultaneous cataloging of genomes and their responses to various stimuli. But the complexity of even the simplest organism makes it difficult, if not impossible, to keep track of these data so that they are useful for subsequent experiments. Increasingly, it has become necessary to develop new tools to analyze and classify the interactions of various gene products on the basis of their expression profiles.

GeneSpring is a Java application allowing users to analyze, filter, sort, and organize gene expression data and to facilitate the discovery of patterns not obvious to manual inspection. A powerful program that can import and manipulate large amounts of expression data either generated in-house or imported from one of the many public databases, GeneSpring is surprisingly easy to use, though some may need practice before using the more complex analyses and visualization tools effectively.

The core of the program is the genome browser window. Data can be entered manually or imported from databases such as GenBank, MIPS, and SGD. A specific gene can be found quickly by entering either its common name or accession number. Clicking on a gene brings up a new window that can be used to search the database for more information. A powerful feature of GeneSpring is the "Find Similar" button, accessible from the gene window, which searches for genes with a similar expression profile to the gene of interest. Thus, complex correlations can be established on the basis of expression profiles rather than sequence or protein motif similarities. While the "similar" list is generated, GeneSpring also looks for lists in the public domain like the one being generated, which are automatically downloaded and saved as HTML files.

To search for common oligonucleotide regulatory sequences, upstream sequences of a gene can be compared with others identified as similar. The maximum lengths of the oligonucleotide sequence and the upstream sequences to be searched can be specified by the user, and a table can be generated that lists the identified sequences as well as other genes containing such sequences. In this manner, potential regulatory sequences shared among similar genes can be identified, obviating the need to rely on a search for consensus sequences of known transcription factors. Data generated in a particular experiment can be filtered on the basis of data quality, normalized signals, control strength, or *t* test probability.

GeneSpring is a complex and powerful program that allows scientists to move beyond simple homology searches to unraveling complex relationships hidden in gene expression data. An excellent tutorial is available at the Silicon Genetics Web site.

—Yiannis A. Ioannou

Department of Human Genetics, Mount Sinai School of Medicine, New York, NY 10029, USA. E-mail: yiannis.ioannou@mssm.edu

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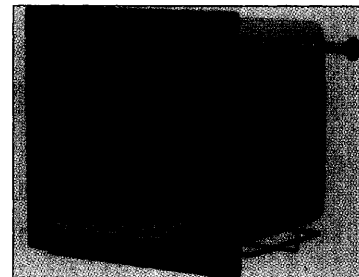
isolation can be performed using the MagneSil Paramagnetic Particles and a simple magnetic device such as the MagnaBot 96 Magnetic Separation Device. This innovative magnetic device is adaptable to most commercially available robotic platforms. The MagneSil Systems are designed for use with automated instruments allowing high-throughput purification. The Wizard MagneSil Plasmid Purification system provides a reliable, cost-effective method for the rapid isolation of plasmid DNA in a multi-well format. The purified plasmid can be used directly in automated fluorescence DNA sequencing, such as with BigDye terminator sequencing chemistry, as well as for other standard molecular biology techniques, including restriction enzyme digestion. The Wizard MagneSil Sequencing Reaction Clean-Up System is designed to purify BigDye terminator cycle sequencing reactions to ensure optimal fluorescent sequencing results. The system removes buffer salts and unincorporated dye-labeled terminators from sequencing extension products prior to sequencing.

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The Scientific Data Management System 5.0 is a new Web-enabled version of an electronic laboratory data software system. The software is designed to electronically assist the laboratory in information collection, storage, and retrieval by automatically aggregating data from disparate sources, providing

CONTINUED ON PAGE 393

SAGE KE

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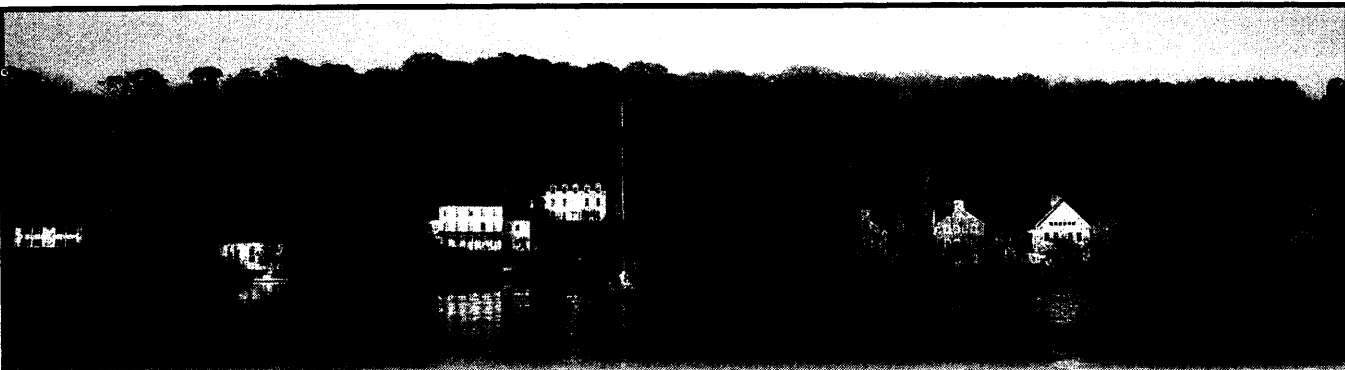
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Radiochromatography Detectors: γ-RAM Model 3 provides product information on a research-grade, on-line radioactivity quantitation system of ¹²⁵I, ¹³¹I, ^{99m}Tc, and other gamma emitters for high-performance liquid chromatography (HPLC) techniques. Features include sodium-iodide well-type crystal for superb counting geometry; flexible software with half-life correction; two independent radio channels; two analog inputs for mass detectors; two analog outputs for chart recording and chromatography systems; external control for any HPLC system and remote computer; and detector shielding for two backgrounds.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier by visiting www.scienceproductlink.org on the Web, where you can request that the information be sent to you by e-mail, fax, mail, or telephone.



Cold Spring Harbor Laboratory 2002 Meetings

Winter Biotechnology Conference

New Horizons in Molecular Imaging: Genes, Probes, & Disease

March 14 - 17

Zaver Bhujwalla, John Hoffman,
David Piwnica-Worms, Ralph Weissleder

Spring Meetings

Evolution of Developmental Diversity

April 17 - 21

Richard Behringer, Nipam Patel

Gene Expression and Signalling in the Immune System

April 24 - 28

Richard Flavell, Rudolf Grosschedl,
Stephen Smale

Molecular Chaperones and the Heat Shock Response

May 1 - 5

Elizabeth Craig, Carol Gross, Arthur Horwich

Genome Sequencing & Biology

May 7 - 11

Pui-Yan Kwok, Jane Rogers, Ed Rubin

The Cell Cycle

May 15 - 19

Stephen Elledge, J. Wade Harper, David Morgan

Retroviruses

May 21 - 26

Karen Beemon, Julie Overbaugh

67th Symposium:

The Cardiovascular System

May 29 - June 3

Bruce Stillman, David Stewart

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Fall Meetings

Cancer Genetics & Tumor Suppressor Genes

August 14 - 18

Douglas Hanahan, Jacqueline Lees, Scott Lowe,
Chuck Sherr

Molecular Genetics of Bacteria & Phages

August 20 - 25

Robert Landick, Thomas Silhavy, Catherine Squires

Mouse Molecular Genetics

August 28 - September 1

Richard Behringer, Carmen Birchmeier, Hiroshi Hamada,
Terry Magnuson

Translational Control

September 10 - 15

Mattias Hentze, Alan Hinnebusch, Robert Schneider

Dynamic Organization of Nuclear Function

September 18 - 22

Wendy Bickmore, Gideon Dreyfuss, David Spector,
Kathy Wilson

Axon Guidance & Neural Plasticity

September 25 - 29

Cori Bargmann, Tobias Bonhoeffer, Larry Zipursky

Molecular Genetics of Aging

October 2 - 6

Ronald DePinho, Terri Grodzicker,
Leonard Guarente, Cynthia Kenyon

Germ Cells

October 10 - 13

Ruth Lehmann, David Page

Human Origins & Disease

October 30 - November 3

Mary-Claire King, Christopher Stringer, Douglas Wallace

Winter Biotechnology Conference

Therapeutic Opportunities in Neurodegenerative Diseases

December 5 - 8

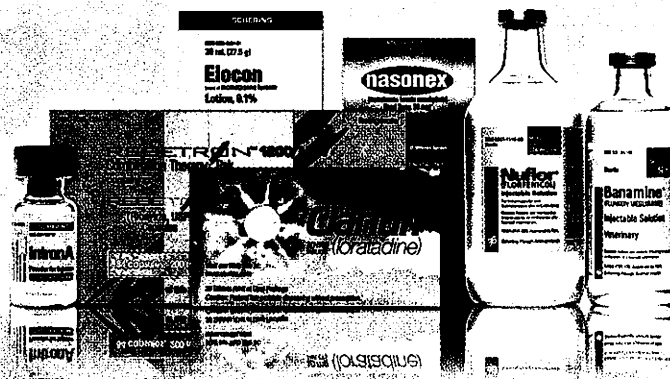
Samuel Gandy, Harry Levine III, Marcy MacDonald

Comparative Plant Genomics

December 12 - 15

Michael Bevan

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In Vivo Cancer Research
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Protein Biochemistry/Protein Purification
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The Institute for Genomic Research (TIGR) is a not-for-profit research institute founded in 1992. The scope of research at TIGR includes structural, functional, and comparative analysis of genomes and gene products in viruses, eubacteria, pathogenic bacteria, archaea, and eukaryotes, both plant and animal, including the mouse, the rat and the human. Additionally, bioinformatics based research projects encompass investigations into genome composition, gene-finding algorithms, sequence assembly and alignment, and modeling of protein structure. TIGR's pioneering approach to genome based analysis produced the first-ever genome sequence of a free living organism in 1995, and TIGR scientists have completed 61% of the genomes and chromosomes in the public domain, making it the world's premier center of whole genome sequencing and analysis. TIGR currently has a staff of 275 including 30 faculty. Please visit our web site at <http://www.tigr.org>.

A Post-Doctoral Fellowship is available on NIH- and USDA-funded projects to completely sequence the bacterial genomes of the human pathogen *Clostridium perfringens* and the sheep pathogen *Dichelobacter nodosus*. Candidates should possess a strong computational background, including experience with PERL, SQL, and NT and UNIX operating systems. Responsibilities will include overseeing day to day processes of genome closure, assisting in annotation and analysis of the genomes, publication of genome data and comparative genomic analyses. **Please reference job code: 1113**

A Post-Doctoral Fellowship is available to participate in genome sequencing of *Plasmodium spp.*, *Theileria parva*, and other lower eukaryotes. This individual will be responsible for data collection, analysis, and annotation of genome sequences, and may also participate in functional genomics studies using microarrays. Proficiency in UNIX, SQL, or Perl is highly desirable. **Please reference job code: 1114**

A Post-Doctoral Fellowship is available on an NCI-funded project to study gene expression in human colon tumor metastasis using microarrays. A strong computational background, including experience with PERL, SQL, and NT and UNIX operating systems is preferred but not required. Responsibilities will include data generation, analysis, and publication of novel results as well supervision of junior laboratory personnel. Candidates should be highly self-motivated and willing to work in a team-oriented collaborative environment. **Please reference job code: 1115**

A Post-Doctoral Fellowship is available immediately to study the genomics of pathogenic bacteria. The position involves participation in genome analysis and functional genomics of *Bacillus anthracis* and *Actinomyces naeslundii*. Experience in microbiology and familiarity with the UNIX operating systems is preferred. **Please reference job code: 1116**

A Post-Doctoral Fellowship is available on an NHLBI-funded project to study gene expression in rodent models of human heart, lung, blood and sleep disorders using microarrays. A strong computational background, including experience with PERL, SQL, and NT and UNIX operating systems is preferred but not required. Responsibilities will include data generation, analysis, and publication of novel results as well supervision of junior laboratory personnel. Candidates should be highly self-motivated and willing to work in a team-oriented collaborative environment. **Please reference job code: 1117**

Several Bioinformatics Analysts positions are available to provide data management and analysis for ongoing research projects. Primary responsibilities will include generation, maintenance, analysis and curation of data from genome sequencing, functional genomics and comparative genomics projects. Qualified applicants will possess broad knowledge of biochemical pathways, protein structure and function, biochemical and taxonomic nomenclature and microbial and cellular biology. Extensive knowledge of sequence searching, analysis and multiple alignment. Candidates should have knowledge molecular phylogenetics, statistics and other aspects of computational biology. Proficiency in use of SQL, Linux/Unix operating systems and Perl programming. **Please reference job code: 1118**

Qualified candidates will have a PhD in Human Molecular Biology, Genetics, Molecular Biology, Microbiology, Cancer Genetics or a related field or the equivalent, experience with standard molecular biology laboratory techniques. Please send a curriculum vitae with the names, phone numbers, and e-mail addresses of three references to: **The Institute for Genomic Research, Attn: Human Resources, 9712 Medical Center Drive Rockville, MD 20850 E-mail: jobs@tigr.org Fax: (301) 838-0208 EOE**

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Senior Scientist, Skin Pharmacology (Req. Code: 01-3521)

The Skin Research Center of Johnson & Johnson Consumer Products, conducts basic research of skin and hair and is committed to the identification of new insights and targets for skin care.

In this challenging role, the successful candidate will be responsible for the discovery and evaluation of active ingredients and mechanistic targets for Skin Care while closely interacting with fellow scientists and with development and marketing teams.

To qualify, you must have a Ph.D. in pharmacology, biological Sciences or related field and 3+ years of postdoctoral experience. Solid knowledge of preclinical pharmacology models and inflammatory conditions is required. An understanding of inflammation, immunology or vascular modulation and, technical experience in cellular and molecular biology, cell culture and in vivo techniques is necessary. Excellent interpersonal, organizational and oral/written communications skills are essential as is PC proficiency. Knowledge of skin biology preferred.



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Scientist, Reproductive Endocrinology (Req. Code: 01-2748)

In this challenging role, you will lead exploratory and drug discovery programs in reproductive biology. This involves identifying targets; developing in vitro and in vivo assay systems; and interacting with project team members to develop lead molecules for further drug development.

To qualify, you must have a Ph.D. in reproductive biology or a related field and 2+ years of relevant postdoctoral experience.

Associate Scientist (Req. Code: 01-3565)

In this challenging role, you will plan, execute and analyze in vivo an in vitro assays designed to demonstrate the efficacy of potential drug candidates. This involves performing dosing, tissue collection and analysis of biological markers, cell culture, assay design and development, and screening. You'll also analyze and interpret data using computer programs such as Excel and GraphPad.

To qualify, you must have an MS in biology or a related field and 5+ years of laboratory research experience. Knowledge of pharmacology and biochemistry is required. Excellent interpersonal and oral/written communications skills are essential. Familiarity with RIA, cell culture and molecular biology is a plus.

Sr. Associate Scientist (Req. Code: 01-2749)

In this challenging role, you will join a team of scientists pursuing therapeutics for immunologically mediated diseases.

To qualify, you must have a BS/MS and 2+ years of industrial experience in molecular immunology or a related field as well as knowledge of immunology and/or signal transduction mechanisms. A background in basic molecular biological techniques, signal transduction assays, protein expression/purification and in vitro enzyme assay development is highly desirable.

Post Doctorate (Req. Code: 01-3384)

In this challenging role, under the direction of a Research Fellow, you will clone genes; overexpress proteins pertaining to the mechanism of action of new antibacterial targets; examine mechanisms of resistance for unusual clinical isolates; and evaluate pharmacodynamic parameters for certain drug classes.

To qualify, you must have a Ph.D. in microbiology or a related field and proven laboratory experience in at least two of the following: molecular biology, molecular pharmacology, biochemistry, microbiology (cloning genes and expressing gene products), examining molecular microbial pathogenesis and evaluating antibiotic mechanisms of action and/or resistance. PC proficiency (Microsoft Office) is required. Knowledge of in vitro and/or in vivo PK/PD assays is desirable.

Associate Scientist, Endocrine Therapeutics Drug Discovery (Req. Code: 01-3612)

In this challenging role, you will perform study design, dosing and handling, sample collection, biochemical analysis, data processing and reporting.

To qualify, you must have a BS or MS in biology, animal sciences, pharmacology, psychology or biochemistry and experience in the design and implementation of diabetes, obesity and dyslipidemia studies.

Associate Scientist (Req. Code: 01-3613)

In this challenging role, you will contribute to the research efforts of a team focused on the discovery of anti-inflammatory compounds. This involves cloning, expression and purification of molecular targets of disease as well as the design, development and performance of in vitro and in vivo assays.

To qualify, you must have a BS or MS in molecular biology, cell biology, biochemistry or a related field and 2+ years of experience in modern molecular biology techniques. A background in cell culture is required. Industry experience is a plus.

Associate Scientist (Req. Code: 01-3614)

In this challenging role, you will clone genes of interest; perform expression; characterize recombinant proteins for target validations and assays development; and investigate innovative molecular technologies.

To qualify, you must have an MS in molecular biology and experience in RNA isolation, recombinant DNA technology and deculturing of mammalian cells. A background in cell expression systems, protein purification, basic immunology and cell biology techniques is preferred. Familiarity with antibody characterization, bioinformatics programs/software and sequence analysis software is a plus.

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Skokie, IL

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SPECIALIST – PAIN *IN VIVO* PHARMACOLOGIST

Skokie, IL

The selected candidate will play a leadership and hands-on role in establishing standard as well as innovative models of pain for validating and prioritizing novel molecular targets and compounds. Extensive experience in pain behavioral pharmacology and pathophysiology is critical. What we seek and require are same as described for above position. Req. #01-4753

SR. SCIENTIST/DIRECTOR – OPHTHALMOLOGY RESEARCH

St. Louis, MO

This senior-level ocular scientist will direct the ophthalmology research effort at our Research & Development site. The successful candidate will have an MD or PhD degree with 5-10 years experience in a drug discovery effort focused on ophthalmology or ocular science. Extensive research experience in the pathology and pharmacology of ocular diseases with emphasis on retinal diseases and demonstrated background at managing teams of scientists are critical. Req. #01-4710

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Scientist, Virology

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Scientist,
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POSITIONS OPEN

FACULTY POSITIONS

MARINE ECOLOGIST/BIOLOGIST (Recruitment Code Number 3637). The Biological Sciences Department at California Polytechnic State University is seeking a Marine Ecologist/Biologist with an interdisciplinary background and expertise in coastal environments for a tenure-track position beginning September 2002. This position is open to all ranks and levels. Responsibilities include active involvement in the undergraduate- and Master's-level graduate marine program through teaching, curriculum development, and implementation of a student-centered research program. Other obligations include obtaining external funding to assist in developing the new Cal Poly Marine Science field station. The successful candidate must also interact with public and private agencies and show leadership in developing outreach programs. Teaching responsibilities will be appropriate to background and training.

PLANT PHYSIOLOGIST (Recruitment Code Number 3839). The Biological Sciences Department of California Polytechnic State University is seeking a Plant Physiologist for a tenure-track **ASSISTANT PROFESSORSHIP** beginning September 2002. Expertise in whole plant processes and field and environmental applications desirable. The successful candidate must have a strong commitment to teaching, curriculum development, and implementation of a student-centered research program. Primary teaching responsibilities include plant physiology, introductory botany and biology, and other undergraduate and graduate courses as appropriate to background and training.

Ph.D. or equivalent required at time of hiring. Postdoctoral or equivalent experience desirable. Salary commensurate with qualifications and experience. Review of applications will be conducted October 2001 through December 1, 2001. Applications received after December 1, 2001, may still be considered.

Applicants should submit curriculum vitae, statement of teaching philosophy, statement of professional goals, and arrange to have official graduate transcripts and three letters of recommendation sent to: **Dr. V. L. Holland, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407.** Please refer to Recruitment Code Number 3637 for marine ecology/biology position and Recruitment Code Number 3839 for plant physiology position on all correspondence. For more information, visit our website: <http://www.bio.calpoly.edu> or contact **Dr. Holland** via e-mail: vholland@calpoly.edu.

Cal Poly is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications and nominations of women, persons of color, applicants with disabilities, and members of other underrepresented groups. Affirmative Action/Equal Employment Opportunity.

Bennington College seeks a **CHEMIST** to join a dynamic faculty at a small liberal arts college beginning June 2002. The ideal candidate will excel at both teaching and research and find interactions between them. An ability to teach across the undergraduate chemistry curriculum and to reach beyond traditional curricular boundaries is highly desired; the teaching environment supports innovation by offering small class sizes and enthusiastic students. We expect continuing faculty to be active practitioners in their professional fields; there is considerable flexibility to accommodate a variety of research programs and opportunity for research with students and colleagues. We invite applications from across the traditional chemical disciplines and overlap with biochemistry, physics, environmental chemistry, or geochemistry is desired but not required. Course scheduling will be flexible and teaching will include distribution of courses in summer as well as the academic year. Applicants should submit a letter of application; curriculum vitae; and supporting materials including a statement of approach to teaching and professional plans by November 1, 2001, to **Amy Kuzmicki, Chemistry Search Coordinator, Bennington College, Bennington, VT 05201.** Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



BEHAVIORAL NEUROBIOLOGY/ PHARMACOLOGY

Two **TENURE-TRACK FACULTY POSITIONS** (open rank; 12-month appointment) are available for Behavioral Neurobiologists/Pharmacologists at the University of Tennessee Health Science Center, which is expanding in selected areas of neurobiology, genomics, and bioinformatics. We seek faculty members who will be major contributors to our recently funded UT Center of Excellence in the Neurobiology of Brain Diseases. Each faculty member will direct an independent research program in some aspect of psychopharmacology or drug abuse research. Ideal candidates will be those that employ an integrative, mechanistic approach utilizing neurochemical, molecular, or electrophysiological techniques to complement their behavioral research. Candidates should be enthusiastic about engaging in collaborative research within a highly interactive community of Neuroscientists. To this end, the candidates will be influential in the establishment and operation of a core laboratory for research involving animal behavior. Applicants should have a Doctorate in pharmacology, neuroscience, experimental psychology, or a related discipline; relevant postdoctoral experience; and, ideally, a strong, extramurally funded research program. Please send curriculum vitae and three letters of reference to: **James M. O'Donnell, Ph.D., Chairman of the Behavioral Neuroscience Search Committee, University of Tennessee Health Science Center, 874 Union Avenue, Memphis, TN 38163.** Applications will be reviewed beginning November 30, 2001, but will continue to be accepted until the position is filled. *The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI/Title IX/Section 504/American With Disabilities Act/Age Discrimination in Employment Act Employer.*

EVOLUTIONARY MOLECULAR BIOLOGIST

Wheaton College, Norton, Massachusetts

The Biology Department of Wheaton College invites applicants for a tenure-track **ASSISTANT PROFESSORSHIP** in molecular biology to teach in the area of evolution, molecular biology, and chordate anatomy and courses for majors and nonmajors in the candidate's area of interest. Ph.D. is required. The successful candidate must have a strong commitment to teaching and involving undergraduates in research. Use of molecular techniques in research is essential. This is a new addition to the Department and the candidate will have input into the design of his/her own research and teaching space in a new facility. Wheaton College is an independent, selective liberal arts college with 1,500 undergraduates located equidistant between Boston and Woods Hole, Massachusetts, and Providence, Rhode Island. The successful candidate will contribute to a vibrant department that supports majors in biology, biochemistry, environmental science, and psychobiology. More information is available at the Biology Department website: <http://www2.wheatonma.edu/Academic/AcademicDept/Biology/>. Send cover letter, curriculum vitae, and statement of teaching interests and research goals as well as letters from three references by 1 December 2001 to: **Dr. Scott Shumway, Chair, Department of Biology, Wheaton College, Norton, MA 02766.** *Wheaton College seeks educational excellence through diversity and strongly encourages applications from women and men from minority groups.*

Discover your Strengths within Discovery Research Biology.

Glaxo SmithKline's global Discovery Research Biology group is at the forefront of the pharmaceutical industry's efforts to derive the maximum therapeutic benefit from the Human Genome. Our systematic approach in exploiting classes of potential target proteins for drug discovery combined with our capacity to implement innovative ways to broadly define and characterize the biological effects of our novel chemical entities, allows us to fulfill Our Vision... to marry genes and chemistry in order to effectively develop a small molecule ligand for every potential drug target. Our Commitment....to invest \$4 billion each year in R&D to support and reward the creativity, innovation and spirit of our staff who has taken the challenge to develop novel treatments for human disease.

We are looking for scientists who share Our Passion and Our Spirit... to be the leader in unraveling the genome's secrets and apply that knowledge to the development of medicines for the treatment of human disease. Our line functions are inter-dependent, where drug discovery is achieved in matrix teams. These teams integrate all program activities to increase our understanding of ligand-induced changes in gene and protein expression within complex biological systems.

Gene Expression and Protein Biochemistry (GEPB)

Our GEPB group is focused on achieving excellence in the generation and functional characterization of recombinant proteins, antibodies and cell lines for all stages of drug discovery and as therapeutic agents. Additional major functions of this group include developing molecular biology and biochemistry of key receptor and enzyme target classes, technological innovation in gene expression, fermentation strategies, and advancing modern approaches to protein biochemistry. We currently have immediate openings for:

Research Investigator II/Senior Research Investigator

We are looking for a Group Leader to lead a group of scientists involved in the creation of appropriate cell-based systems that may be used for screening or protein-protein interaction studies leading to a better understanding of Nuclear Receptor Function. You will also be working with scientists in the other departments and divisions to build a Nuclear Receptor strategy and cross-functional working group. The successful candidate must have a PhD in Molecular Biology or related field with a minimum of 7 years of post graduate experience, strong communication skills and be able to work well in a team setting. Job Code #12255

Assistant/Associate Scientist

This candidate will be expected to develop and scale-up purification protocols for recombinant proteins expressed in insect cells or bacteria to be used in high throughput screens or structural studies. The candidate should have experience in a variety of chromatographic separation techniques, and be familiar with biochemical and biophysical characterization of proteins. Qualifications include a BS degree in Biochemistry or equivalent, with a minimum of 2 years experience as a protein biochemist. The candidate must have demonstrated strong protein biochemistry technical skills, good communication, high motivation and work well in a team environment. Job Code #12725

Assistant/Associate Scientists

There are two positions available that will be responsible for the operation of lab scale fermenters (5-100L) for the purpose of optimizing processes to maximize the production of recombinant proteins in *E. coli* or insect and mammalian cells. The candidate will design protocols to improve the quantity of recombinant proteins produced, perform fermentations, harvest products and

trouble shoot fermentation processes. Qualifications include a BS or MS degree in Biochemistry/Molecular Biology/Microbiology, a demonstration of excellent cell culture and aseptic technique and/or a basic understanding of microbial physiology. The candidate should have experience operating laboratory scale fermenters and have demonstrated independence, initiative, excellent organizational skills and the ability to work in a team setting. Job Codes #12254, #12256

Assistant Scientist/Associate Scientist/Scientist, Molecular Biology

We are looking for a scientist who would be responsible for cloning, mutagenesis/engineering of target genes for structural/functional analyses, and for designing expression constructs for optimal expression and protein purification. The successful candidate should possess a BS or MS degree in Biological Sciences-related areas and have a minimum of two years molecular biology experience. Proficiency in current molecular biology techniques such as RNA/DNA isolation, cloning, site-directed mutagenesis, PCR/RT-PCR, and cell transfection as well as experience with different expression systems (*E. coli*, baculovirus, and mammalian) are essential. The candidate should have excellent communication and organization skills and ability to work effectively in a multi-disciplinary team-based. Proficiency in using desktop computer programs such as Word, Excel, PowerPoint and the computer tools for sequence analysis is required. Job Code #12117

Discovery Research Biology has worldwide opportunities for scientists experienced in drug discovery as well as those newly interested in joining our industry. Openings exist at our US facilities located in suburban Philadelphia, PA and Research Triangle Park, NC, our Harlow and Stevenage facilities in the UK as well as our laboratories in Tsukuba, near Tokyo, Japan. For confidential consideration, please apply at www.gsk.com. Please note the Job Code is essential to search the Careers site. Principals only, no agencies please.

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research opportunities

2002 U.S. NAVY-ASEE Summer Faculty Research Program and Sabbatical Leave Program

Administered by the American Society for Engineering Education

The Office of Naval Research sponsors a Postdoctoral Fellowship Program, which offers a valuable research experience for those scientists who have received their Ph.D.'s, are U.S. citizens or permanent residents, and are interested in applying themselves in a challenging, creative and progressive scientific environment. The program is designed to significantly increase the involvement of highly trained scientists and engineers from academia and industry in scientific and technical areas of interest and relevance to the Navy. Scientists and engineers at ONR laboratories help shape and execute the Navy's program for meeting the challenge of developing technologies that will support Naval Forces in meeting future operational needs.

ELIGIBILITY AND APPLICATION

All applicants must be U.S. citizens or Permanent Residents. Non-U.S. citizens must be legal permanent resident and are required to have a "green card" at the time of application. Permanent resident status eligibility for fellowship positions may vary within each laboratory. Before appointment, each participant must present evidence of having received a Ph.D., Sc.D., or other earned research doctoral degree recognized in U.S. academic circles as equivalent to a Ph.D. The applicant must submit a 5-10 page research proposal that relates to a specific research opportunity. Women and minorities are strongly encouraged to apply.

SELECTION OF PARTICIPANTS AND TERMS OF APPOINTMENT

Fellows are competitively selected on the basis of their overall qualifications and technical proposals addressing specific areas defined by the Office of Naval Research. Fellowships are awarded for one year and may be extended for a second and third year. Applicants are advised to plan their research programs to conform to a one-year appointment. The application deadlines are January 1, April 1, July 1, and October 1.

For application material and detailed information:

Online at: www.asee.org/summer

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American Society for Engineering Education

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In accordance with Federal Statutes and regulations, no person on the grounds of race, color, age, sex, national origin or disability shall be excluded from participating in, denied the benefits of, or be subject to discrimination, under any program activity receiving financial assistance from the U.S. NAVY

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**Division of Biology, College of Arts and Sciences, University of Tennessee
invites applications for the following positions.**

Biochemistry and Cellular and Molecular Biology (BCMB) will fill three positions.

Positions I and II are tenure-track positions supported by the Center of Excellence for Structural Biology and the BCMB Department. Academic appointments will be in the BCMB department. Candidates should have research experience using modern techniques of structural biology including NMR, crystallography, neutron scattering and/or computational methods to solve biologically relevant problems. Positions are available at the Assistant Professor level although more senior and accomplished applicants can be considered for more senior appointments. Excellent opportunities are available to collaborate with other scientists at UT and the Oak Ridge National Laboratory. Interested candidates should send a resume indicating research experience and goals, teaching experience and goals, and names, addresses, phone numbers, and e-mail addresses of three references to: **Dr. Engin Serpersu, Chair of the Structural Biology Search Committee, BCMB Department, WLS M407, University of Tennessee, Knoxville, TN 37996-0840**

Position III is tenure-track position at the Assistant Professor level in mammalian genetics. Candidates should be using modern techniques of molecular biology and functional genomics to solve biologically relevant problems in genetics. A research emphasis on the genetics of the laboratory mouse would be especially advantageous because of opportunities for local interactions with mammalian geneticists at the Oak Ridge National Laboratory and in the Tennessee Mouse Genome Consortium. Interested candidates should send a resume indicating research experience and goals, teaching experience and goals, and names, addresses, phone numbers, and e-mail addresses of three references to: **Dr. Mary Ann Handel, Chair of the Mammalian Geneticist Search Committee, BCMB Department, WLS M407, University of Tennessee, Knoxville, TN 37996-0840**

The Department of Botany seeks a plant biologist for a tenure-track position at the Assistant Professor level. Although not limited to these areas, the department seeks candidates who are using state-of-the-art approaches to address evolutionary questions in the areas of plant-microbe interactions, phycology or mycology. Interested candidates should send a resume indicating research experience and goals, teaching experience and goals, and names, addresses, phone numbers, and e-mail addresses of three references to: **Dr. Beth Mullin, Chair, Plant Evolutionary Biologist Search Committee, Department of Botany, University of Tennessee, Knoxville, TN 37996-1100**

The Department of Ecology and Evolutionary Biology (EEB) will fill up to two tenure-track positions. Positions are at the Assistant Professor or, in special circumstances, Associate Professor level. Applications will be considered from the following areas:

Area I. Computational/theoretical ecology and/or evolution. While the research area is open, attractive research areas include complex ecological or evolutionary systems, problems at multiple spatial scales, and individual-based models.

Area II. Ecology. The specific research field is open. Research interests in conservation biology, landscape ecology, animal-plant interactions including invertebrate physiological ecology, and freshwater ecosystem ecology are particularly attractive.

Area III. Fish ecology, evolution and/or systematics. A major responsibility of this position is the curation and further development of the UT fish collections.

Applicants in areas II and III should have or develop a research plan to take advantage of the natural resources available in the Tennessee region. Interested candidates should send a resume indicating research goals, teaching experience and goals, and names, addresses, phone numbers, and e-mail addresses of three references to: **Dr. Dan Simberloff, Nancy Gore Hunger Chair of Environmental Studies, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN 37996**

The Department of Microbiology seeks applicants for two tenure-track, Assistant Professor faculty positions, one in Immunology and one in Virology. We are particularly interested in applicants working within a biomedical framework. Interested candidates should send a resume indicating research experience and goals, teaching experience and goals, and names, addresses, phone numbers, and e-mail addresses of three references to: **Dr. Beth Mullin, Chair, Microbiology Search Committee, Department of Microbiology, WLS M409, University of Tennessee, Knoxville, TN 37996-0845**

Review of applications for these positions will begin on November 15, 2001 and continue until the positions are filled. All positions are to start on August 1, 2002. The University of Tennessee is the major state institution for training and education of undergraduate and graduate students and the individuals filling these positions will share teaching responsibilities at both levels. Supervision of graduate students and success in developing a strong externally funded research program are expected. Required qualifications for each of these positions includes a Ph.D., evidence of significant scientific productivity in the appropriate field, and a commitment to an integrated program of teaching and research. Postdoctoral experience is preferred and/or required for all of these positions.

The University of Tennessee is an EEO/AA/TitleIX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

Best in your field? We're looking for the cream of the crop!



Torrey Mesa Research Institute (formerly Novartis Agricultural Discovery Institute, Inc.), a research institute of Syngenta Research & Technology, is one of the largest, single, fully-funded research endeavors dedicated to agricultural genomics, consumer health, and post-genomics technology. As an innovative and team-oriented company, we develop and apply cutting-edge biotechnology to match genes with traits for improved agribusiness products, including consumer and animal health products. TMRI's Genome Technology group offers an exciting, highly interactive, multidisciplinary research environment in which leading edge technologies are exploited and novel approaches developed for understanding the specifics of plant regulatory gene function. We currently seek the following talented individuals:

Senior Research Associate

Successful candidate will be responsible for supervision of the Custom Sequencing Group at TMRI. Must be knowledgeable in all phases of the DNA sequencing process. This typically will include the steps of subclone library construction, template DNA preparation, DNA sequence reaction setup, fluorescent sequence detection and preliminary data characterization and analysis. Group works directly with advanced automation, including robotic colony pickers, liquid pipetting robots and automated capillary DNA sequencers. Data analysis tasks involve the use of numerous public, commercial and custom sequence analysis tools. Requires a BS/MS degree and 5+ years' experience (laboratory and supervisory). Supervisory skills must include good communication skills as well as a strong customer focus and team orientation. Will work in conjunction with 2 Production groups' supervisors and supervise a group of 3 RA's. Additional responsibilities will include training, performance evaluations, departmental reports, and project management. Job Code: SRA/TMIG-SCI

Research Associate/Senior Research Associate

We are looking for two highly motivated individuals to apply their skills to our rice functional genomics project. Requires a BS/MS in Molecular Biology and 2-5 years' experience. Successful candidates will have demonstrated experience in core molecular biology skills including DNA and RNA extraction and purification, gel electrophoresis, plasmid construction, PCR and recombinant protein expression and purification. Plant Molecular Biology experience is desired but not necessary. Selected candidates will contribute to our team to utilize our proprietary rice genomic sequence to establish regulatory networks controlling traits of value, clone regulatory gene cDNAs, prepare constructs for plant transformation and assist in identifying and characterizing proteins that bind to cis elements identified in our bioinformatics effort. We aim to use this information to identify gene leads for our company wide functional genomics effort for the production of economically important new plant varieties. Job Code: RA/POE-SCI

DATA MINING OPPORTUNITIES

The objective of TMRI's Data Mining team is to extract commercially useful information from the vast amount of whole genome and EST sequence, as well as expression and proteomics data. We currently have 2 open positions:

Programming Associate

Successful candidate will be responsible for organizing and evaluating public and proprietary sequence, expression and proteomics data to enable and assist in efficient data mining. Requires a BS in Molecular Biology, Computer Science or a related field and a minimum 1 year experience in the bioinformatics field. Also requires experience with Java or PERL and an understanding of biological processes and experimental biology techniques. Excellent communication and interpersonal skills and an ability to work in a team environment are essential. Job Code: PA/GPRE-SCI

Bioinformatics Specialist

The data mining effort will be driven in part by this individual, who will create and use modular tools to efficiently mine sequence and expression data for useful genes. The successful candidate will be familiar with sequence analysis and alignment tools, phylogenetic analysis, domain and motif searches. Requires an MS or a Ph.D. in Bioinformatics or a Ph.D. in Biological Sciences with a solid background in both (evolutionary) biology and bioinformatics. Also requires experience with Java or PERL, an understanding of biological processes as well as experimental and computational biology methods. Excellent communication and interpersonal skills and an ability to work in a team environment are essential. Job Code: BS/GPRE-SCI

TMRI offers excellent compensation and a great benefits package, including 401(k) with match and immediate vesting. For confidential consideration, please send cover letter indicating position of interest and resume including salary history and expectations to: **Torrey Mesa Research Institute**, Attn: HR/Job Code), 3115 Merryfield Row, San Diego, CA 92121-1102. Fax: (858) 812-1096. EOE

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Send CV and names of three references to: **Ms. Liping Bao, Department of Psychiatry and Fishberg Research Center for Neurobiology, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574; or e-mail: lba002@hotmail.com. EOE.**

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University at Albany

State University of New York

Center for Comparative FUNCTIONAL GENOMICS

Tenure Track and Research Positions

in

Bioinformatics, Mammalian Genomics, and Proteomics/Mass Spectrometry

The University at Albany, SUNY, in conjunction with the State of New York, has invested over \$80 million to launch a new initiative in Comparative Functional Genomics. This interdisciplinary initiative includes members from the College of Arts & Sciences' Departments of Biology, Chemistry, Computer Science, Psychology, and Physics as well as the School of Nanosciences and Materials, School of Public Health, and Albany Medical College. The Center maintains state-of-the-art facilities and technical support in genomics, bioinformatics, proteomics, microarray, mouse transgenesis, cell culture, fluorescence activated cell sorting, confocal and electron microscopy and imaging. A new 180,000 square foot Life Sciences research building is currently under construction to house the Center and its members. Recruitment of the following positions is part of a commitment to hire at least 10 new junior and senior faculty in Functional Genomics over the next few years.

Bioinformatics

The Center has embarked on a major initiative to establish a world-class facility for computational and experimental genomics research. As part of this effort, the Center, together with the Computer Science Department, is seeking outstanding candidates in the area of bioinformatics. Possible approaches include state of the art combinatorial and statistical analyses, data mining, machine learning, and stochastic and geometric modeling to investigate biological organization or to manage, analyze, and integrate information arising from genomics and proteomics projects. We anticipate that applicants will have a Ph.D. in computer science, computational biology, bioinformatics, or a related discipline. The successful candidate will be expected to help maintain the Center's Bioinformatics Core Facility and collaborate with Center investigators.

Mammalian Genomics

The Center, in conjunction with the Department of Biological Sciences, invites applications at the Assistant Professor level for individuals working in the broad area of mammalian molecular genetics. At least two positions are available this year with several more anticipated in the near future. Preference will be given to candidates using human or mouse models for the study of cancer and/or development. Expertise in microarray technology and at least two years of postdoctoral research experience are also preferred. The East Campus research park, which houses the Center, is also home to Taconic Biotechnology, Inc. with which the University partners in maintaining one of four NIH sponsored Mutant Mouse Resource Centers. The successful candidates will be expected to participate in directing this Mouse Resource.

Proteomics/Mass Spectrometry

The Center invites applications for the position of Director of the University's Proteomics/Mass Spectrometry Core Facility. Applicants must have a Ph.D. in Chemistry and experience in state-of-the-art proteomics and mass spectrometry of biological macromolecules and microscale separations of biopolymers. The successful candidate will be expected to manage the core facility and to establish collaborative research ventures with other members of the Center.

Appointments in Bioinformatics and Mammalian Genomics will be tenure track at the Assistant Professor level and will include appointment to both the Center and indicated department. The successful candidates in these fields will be expected to maintain vigorous, extramurally funded research programs and have a strong commitment to excellence in teaching. Appointment to the Proteomics/Mass Spectrometry position will initially be as a Research or Senior Research Associate, which are tenure track positions that can evolve to faculty status. Review of applications will commence immediately and continue until positions are filled. Start up packages and salaries are highly competitive. Interested individuals should submit via both e-mail and regular post, a curriculum vita and statement of research interests/expertise and have at least three letters of reference sent to:

Michele Anderson
Assistant to the Director, Center for Comparative Functional Genomics
University at Albany
A202, One University Place
Rensselaer, NY 12144-3456
(518) 591-8300 E-mail: genomics@albany.edu



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Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph

FACULTY POSITIONS IN BIOMEDICAL SCIENCES

The Department of Biomedical Sciences, University of Guelph, is seeking applicants for three tenure-track positions at the Assistant or Associate Professor level. Applicants must have a Ph.D. degree or equivalent. Expertise in any aspect of biomedical sciences and/or a D.V.M. degree or equivalent would be beneficial. Preference will be given to those applicants who have a research emphasis in a field that is complementary to an existing area of research strength in the department. Applicants should have a strong commitment to research, and either have an established research program, or exhibit a clear potential for establishing successful, externally funded research and graduate programs in one or more of the biomedical science disciplines. Appointments will be made to cover teaching needs in three disciplines that are core subjects in the Doctor of Veterinary Medicine program and the Bio-Medical Sciences BSc major, namely **physiology, veterinary pharmacology, and embryology/developmental biology.**

The successful applicants will be expected to develop graduate training programs, and participate in various activities related to the departmental graduate programs. Further information about the graduate programs and areas of research activity can be found on the college and departmental web site: <http://www.ovc.uoguelph.ca/>

The University is committed to an Employment Equity Program that includes special measures to achieve diversity among its faculty and staff. We therefore, particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women. Canadian citizens and permanent residents of Canada will be considered first for these positions.

Salary is negotiable and commensurate with experience and qualifications. The appointments are subject to final budgetary approval. The deadline for applications is **December 28, 2001**, or until the positions are filled. Please send a letter of application, a complete curriculum vitae and the names and addresses of four referees to: **Dr. J. F. Leatherland, Chair, Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph, Guelph, ON N1G 2W1, Canada. Fax: (519) 767-1450. E-mail: jleather@ovc.uoguelph.ca**

UNIVERSITY
of GUELPH

Invertebrate Biologist/Physiologist and Microbiologist/Prokaryotic Biologist Appalachian State University, Department of Biology

Appalachian State University, a Time magazine "College of the Year", is a comprehensive university with an enrollment of 12,500. The Biology Department (www.biology.appstate.edu) currently has 22 faculty, over 500 majors, and 31 graduate students. We are committed to an extensive laboratory and field experience for our majors. The Department invites applications for two tenure-track faculty positions: Invertebrate Biologist/Physiologist and Microbiologist/Prokaryotic Biologist. Candidates must have a strong commitment to undergraduate and graduate education. Responsibilities include teaching, developing a program of scholarship involving undergraduate and graduate students, and seeking extramural funding. A Ph.D. is required. Submit a letter of application, curriculum vitae, description of teaching and research interests, statement of teaching philosophy, and names, addresses, telephone numbers, and email addresses of three references by December 3, 2001.

Invertebrate Biologist/Physiologist

Candidates must be broadly trained in invertebrate biology and familiar with the evolutionary relationships and physiology of invertebrates. Teaching responsibilities include an undergraduate course in invertebrate biology from an organismal perspective, as well as an upper level course in invertebrate physiology. Submit materials to **Dr. Robert Creed, Department of Biology, Appalachian State University, 572 Rivers Street, Boone, NC 28608-2027. E-mail: creedrp@appstate.edu.**

Microbiologist/Prokaryotic Biologist

Candidates must be broadly trained in microbial and molecular biology. Teaching responsibilities include undergraduate courses in microbiology and a graduate course in his/her area of specialty. Submit materials to **Dr. Mark Venable, Department of Biology, Appalachian State University, 572 Rivers Street, Boone, NC 28608-2027. E-mail: venableme@appstate.edu.**

Appalachian State University is an Equal Opportunity Employer.



SUNY Downstate Medical Center

Tenure Track Position for Assistant/ Associate Professor

The Department of Pediatrics at the State University of New York Downstate Medical Center in Brooklyn invites applications for a tenured track position at the assistant/associate professor level with an opportunity for joint appointment in an appropriate basic science department. We seek an established investigator in the area of mucosal immunology/inflammation with a particular interest in pulmonary physiology/asthma. Candidates must possess a Ph.D., M.D. or equivalent degree. A strong record of continuous research productivity and either active funding or clearly demonstrated potential for funding is required. The appointee will be expected to participate in medical and graduate teaching. Excellent opportunities exist within the department and institution for collaboration and translational research. Salary, start-up resources, and laboratory space are competitive and commensurate with experience.

Applicants should send a curriculum vitae and list of three references to: **Dr. Barry Wershil, Vice Chairman for Research and Education, Department of Pediatrics, SUNY Downstate Medical Center, 450 Clarkson Ave., Box 49, Brooklyn, NY 11203. Fax: 718-270-1985. Electronic applications are welcome. Address to: bwershil@downstate.edu.**

*SUNY Downstate is an Affirmative Action/
Equal Opportunity Employer. Women and minorities are
strongly encouraged to apply.*



OVARIAN SCIENTIST
Tenure Track, Assistant/Associate/Full Professor
Faculty Position

The University of Missouri, Columbia is seeking applications to fill a new, tenure-track faculty position in its Life Sciences Mission Enhancement Reproductive Biology Program in the Department of Obstetrics and Gynecology. The appointment will be primarily research with limited teaching or clinical duties in the candidate's area of expertise. This investigator will explore ovarian factors that limit fertility in humans and impair human health and join an interdepartmental group representing eight departments and four colleges.

The successful candidate will hold a M.D., M.D./Ph.D. or Ph.D. degree with interests in basic mechanisms regulating ovarian function, ovulation, and fertilization including abnormal ovarian function (i.e., polycystic ovarian syndrome and oncology). Preference will be given to those with postdoctoral experience.

Salary will be competitive. Start up funds and technical support will be provided for three years, at which time recruited faculty will be expected to have obtained external support for their research program.

Applications, including a CV and brief research proposal, should be addressed to:

Dr. Kathy L. Sharpe-Timms
Department of Obstetrics and Gynecology
One Hospital Drive, N625 HSC
University of Missouri
Columbia, MO 65212

Applications should be submitted by March 15, 2002, or until a suitable candidate is identified. Website: <http://obgyn.hsc.missouri.edu/openings/research.htm>

PAIN RESEARCH FACULTY
HARVARD MEDICAL SCHOOL

The Pain Research Center at the Brigham and Women's Hospital, Harvard Medical School, seeks to appoint two basic scientists as new faculty members to join its existing core of neuroscience investigators.

The Pain Research Center currently is staffed by 5 Principal Investigators, supported by multiple NIH and industry grants, and is focused on understanding the mechanisms that underlie acute nociception and chronic neuropathic (and cancer) pain, and on developing treatments for pain from disease. Areas of research include molecular biology and pharmacology of ionic channels, mechanism of action of local and systemic blockers of Na⁺ channels, development of long-lasting, pre-emptive nerve blocking treatments, role of neurotransmitters and intracellular pathways in opiate addiction and withdrawal, and the mechanisms of agents that induce pain during cancer. Communal facilities include a cell culture suite, a variety of preparative and analytical instruments, optical imaging systems and tools for molecular biological experiments.

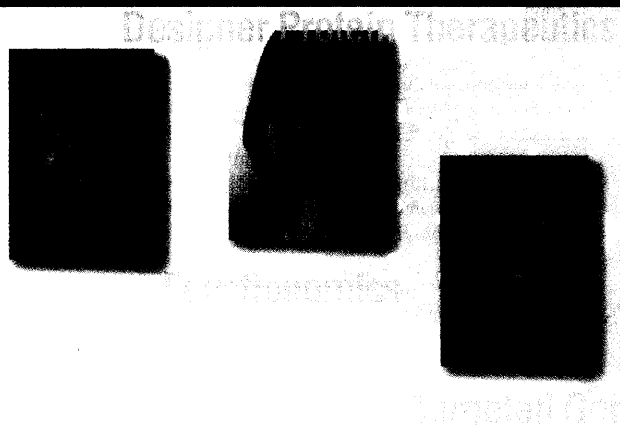
Appointments will be made at the rank of Assistant or Associate Professor. Only candidates with existing research funding will be considered. Although no particular specialty is required, preference will be given to applicants using *in vivo* neurophysiology or molecular biology (functional genomics), and to research on gender-related factors in pain. The primary duties are largely to conduct laboratory research, although collaboration on clinical research projects is encouraged and opportunities exist to teach graduate and medical students, and residents.

Ample funds for equipment are available. We seek someone who is committed to participating in an intellectually and technologically interactive Pain Research Center, with many opportunities to collaborate within the Center and broadly in the institutions of Harvard University.

Please respond to: **Gary Strichartz, Ph.D., Pain Research Center, Brigham and Women's Hospital, 75 Francis Street, MRB611, Boston, MA 02115** or e-mail: gstrichz@zeus.bwh.harvard.edu

Women and minorities are particularly encouraged to apply.
Brigham and Women's Hospital and Harvard Medical School are
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Regeneron is a biopharmaceutical company that discovers, develops, and intends to commercialize therapeutic drugs for the treatment of serious medical conditions. Our platform technologies include Targeted Genomics™, Functionomics™, and Designer Protein Therapeutics™. In addition to our rich product pipeline, we have cutting-edge basic discovery research programs focused on areas such as: muscle, bone, cartilage, fibrosis, genomics, cytokines, inflammation, and angiogenesis.

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To apply please submit your resume, referencing appropriate Web site job code, to:

Regeneron Pharmaceuticals, Inc.

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E-mail (text or .pdf format only):

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XenoPort, Inc. is a well-financed, early-stage biopharmaceutical company focused on the development and application of new technologies to enhance the bioavailability of drugs, by exploiting the function of specific proteins involved in active transport of molecules into and through cells. We are creating a new medicinal chemistry paradigm for developing and optimizing orally bioavailable medicines based on understanding the molecular basis of drug transport.

We are recruiting talented individuals in molecular pharmacology, medicinal chemistry and biopharmaceutical analysis.

Biological Sciences Department

Senior Scientist, Molecular Pharmacology (JC # 257)

We are looking for an experienced molecular pharmacologist to supervise a group developing and implementing *in vitro* pharmacological assays for screening transporter proteins with novel chemical libraries, and to participate in detailed SAR studies of these transporters in close collaboration with our chemistry department. Additional responsibilities will include managing scientific collaborations with our pharmaceutical partners. The successful candidate will have a PhD in Biological Sciences, Pharmacology, or a related field, and at least five years of relevant experience in an industrial setting. A demonstrated record of scientific accomplishment, and strong management, collaborative, and communications skills are essential. Strong computer skills and extensive experience with data analysis tools and the use of compound and SAR databases are also required. Familiarity with the latest technology in high throughput screening is an important qualification. Previous experience in the biology of transporter proteins or ion channels is desirable, but not essential.

Chemistry Department

Scientists – Medicinal / Combinatorial Chemistry

Participate in research team designing and synthesizing orally bioavailable drug candidates.

Staff Scientists (JC#157) Requires Ph.D. in Organic, Medicinal or Bioorganic Chemistry with 2 or more years of industrial or postdoctoral research experience, and an emphasis in synthetic methodology development and/or multistep total synthesis of bioactive compounds.

Research Associates (JC #151) Requires B.S. or M.S. in Chemistry, preferably with prior industrial experience, and a strong background in organic synthesis with extensive experience using modern spectroscopic and chromatographic techniques (NMR, MS, HPLC). Prior hands-on experience with solid-phase combinatorial synthesis and/or solution phase library synthesis is advantageous. Excellent oral and written communication skills are essential.

Biopharmaceutics Department

Staff Scientist (In Vivo) (JC #353) – Requires Ph.D. and 2+ years prior experience. Extensive knowledge of pharmacokinetics is essential. Design/supervise *in vivo* PK/ADME studies to support evaluation of novel transported drugs. Coordinate external contract studies, conduct pharmacokinetic analyses, and prepare data for publication.

Research Assistants /Research Associates (JC # 351) - Requires B.S. or M.S. and 2+ years experience. Conduct *in vivo* PK/ADME studies to support discovery of novel transported drugs. Hands-on *in vivo* experience essential. ALAT/LAT certification highly desirable

We offer outstanding candidates an excellent compensation and benefits package including pre-IPO stock options.

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XenoPort, Inc., 2631 Hanover St., Palo Alto, CA 94304.

Email: jobs@xenoport.com EOE

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www.xenoport.com

Chair, Department of Medicine Dartmouth Medical School Dartmouth-Hitchcock Medical Center

Our organization seeks an accomplished medical scientist, clinical leader, and educator to provide new leadership to the Department of Medicine which includes 186 full-time faculty and 62 house officers at Dartmouth-Hitchcock Medical Center and the Veterans Affairs Hospital at White River Junction, Vermont. Substantial resources are available to further strengthen the academic foundation of this already excellent department.

Candidates should be board certified in Internal Medicine. Other essential qualifications include a distinguished record of original research in basic science, excellent interpersonal and mentoring skills, and demonstrated organizational and administrative ability. The new Chair of Medicine will work collaboratively with the leadership of the Dartmouth-Hitchcock Medical Center, the Dean of Dartmouth Medical School and the Presidents of the Dartmouth-Hitchcock Clinic and Mary Hitchcock Memorial Hospital and its regional affiliates to build on excellence in existing teaching, research, and clinical programs and to extend into important new areas of biomedical research and clinical care.

Dartmouth Medical School and Dartmouth-Hitchcock Medical Center are located in the idyllic Upper Connecticut River Valley of New Hampshire and Vermont. Letters of application should include a curriculum vitae with a summary of relevant clinical, academic and administrative experiences and the names of at least three references. Send applications, nominations or inquiries to: **The Search Committee for Medicine, c/o Ms. K.C. Carter, Dartmouth Medical School Administration, One Rope Ferry Road, Hanover, NH 03755.**

Dartmouth is an equal opportunity/
affirmative action employer and strongly
encourages applications from women and
minority candidates.



**DARTMOUTH-HITCHCOCK
MEDICAL CENTER**



UNIVERSITY OF CALIFORNIA, DAVIS SCHOOL OF MEDICINE MEMBRANE BIOLOGY INITIATIVE



The University of California, Davis, School of Medicine, Department of Human Physiology is recruiting five (5) full-time tenure track, state funded, academic positions at the Assistant/Associate Professor level. These positions are to be recruited into the new Membrane Biology Initiative at the UCD School of Medicine. Candidates must possess a Ph.D. and/or M.D. degree and have at least two years of productive postdoctoral experience. Individuals selected for the positions are expected to build a successful, independent research program and to achieve excellence in the teaching of basic sciences to medical and graduate students. The most important criteria in the consideration of applicants are: (1) a record of excellence, creativity, and initiative in research, which establishes a strong potential to build a vigorous and competitive research program; and (2) a demonstrated ability to communicate effectively as a teacher. Research areas of particular interest include, but are not limited to: Membrane Trafficking; Membrane Transport and Signaling; Structure, Function, and Organization of Membrane Components.

Letters of interest, curriculum vitae, up to three representative reprints, synopsis of research plans (past, present and future goals), summary of teaching experience/philosophy, and the names/addresses of five references should be forwarded to: **Richard Carlsen, Ph.D., Chair, Search Committee, c/o Department of Human Physiology, 3301 Tupper Hall, East Health Sciences Drive, University of California, Davis, CA 95616.** These positions will be "Open Until Filled"; for full consideration, applications should be received by January 31, 2002.

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Affirmative Action Employer.*



Mammalian Genomics

at Cornell University

As part of a university-wide genomics initiative, Cornell University is soliciting applications for a series of faculty positions from outstanding candidates who have expertise and research interests in mammalian functional and comparative genomics. The mammalian genomics program bridges biological science departments on the main campus of Cornell University in Ithaca, N.Y., and is part of a broad university initiative that also includes computational and statistical genomics, evolutionary genomics, microbial and plant genomics, and nanobiotechnology. A description of the initiative, complete job descriptions, and contact information can be found at www.genomics.cornell.edu.



Functional Genomics Research areas include developmental and cell biology, neurobiology and behavior, germ cell biology, the genetic/molecular basis of disease, gene-nutrient interactions, and epigenetics. Individuals who use genome-wide methods to elucidate gene function and are applying novel strategies to the study of the genetic and molecular basis of development, normal and abnormal cell function, and animal-environment interactions are particularly encouraged to apply. Candidates should have Ph.D., M.D., or D.V.M. degrees; be committed to developing a vibrant, externally funded research program; and be actively engaged in the university's teaching mission. Faculty positions are available in the departments of Biomedical Sciences, Human Development, Microbiology and Immunology, Molecular Biology and Genetics, Molecular Medicine, Neurobiology and Behavior, and Nutritional Sciences.

Comparative Genomics Research areas include quantitative and polygenic traits, gene-environment interactions, disease pathogenesis, disease resistance, nutrition, development, and behavior. Individuals who use comparative and genome-wide research strategies on agricultural and companion animal species are particularly encouraged to apply. Candidates should have Ph.D., M.D., or D.V.M. degrees; be committed to developing a vibrant, externally funded research program; and be motivated to participate in the university's teaching mission. Faculty positions are available in the departments of Animal Science, Biomedical Sciences, Clinical Sciences, Nutritional Sciences, Population Medicine and Diagnostics, and the Baker Institute for Animal Health.

All positions are tenure track, and generous start-up packages will be provided; appointment level will depend on the candidate's accomplishments. Emphasis will be placed on identifying exceptionally talented individuals with strong research programs who are interested in contributing to the development of an outstanding mammalian genomics program. The successful applicant and the search committee, in conjunction with the candidate departments, will determine the position's optimal department affiliation within Cornell University.

Review of applications will begin immediately and continue until the positions are filled. Please send a curriculum vitae, three letters of reference, and a research statement to Professor Anthony Bretscher, chair, Mammalian Genomics Search Committee, 351 Biotech Building, Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY 14853.



President and CEO, North Carolina Biotechnology Center

The Center is a private, non-profit corporation established in 1981 as the first state-based biotechnology initiative worldwide. Funded by the North Carolina General Assembly, it works for economic and societal benefit statewide from development and commercialization of biotechnology. Not a site for research, the Center implements programs and activities assisting all participants and stages in the process of technology development, addressing scientific, industry, educational, and policy requirements. The Center is judged internationally as a leading model and is a key catalyzing partner in North Carolina's biotechnology community, one of the five strongest in America.

The President will have exceptional characteristics: leadership and vision effectively combined; trust-inducing; commitment to core values, partnerships and team-based approaches; knowledge about management of public funds and non-profit activities; proven political and policy acumen; and strong confidence and communicational abilities. A Ph.D. in a science related to biotechnology, and ten years of professional experience in research, academic, or related administrative areas with at least three of these years as a senior manager; or an equivalent combination of education and experience. The annual starting salary range is from \$167,800 to \$197,400.

A detailed job description can be found on the Center's web site: www.ncbiotech.org. Please send letter of interest, curriculum vitae, and other appropriate materials by Friday, November 9, 2001 to: Mr. W. Steven Burke, Search Process Administrator and Senior Vice President, North Carolina Biotechnology Center, PO Box 13547, 15 T. W. Alexander Drive, Research Triangle Park, NC 27709 USA. Phone: 919-541-9366. Applications by mail only. Mr. Burke can be contacted for further information before October 16 and the week of October 29; other dates are possible but not assured. The Center is an equal opportunity employer.

TENURE TRACK FACULTY POSITIONS IN CANCER BIOCHEMISTRY

The Department of Biochemistry, together with the Purdue Cancer Center and the Walther Cancer Institute, is recruiting an individual at the assistant professor level to join the dynamic, campus-wide cancer research program at Purdue University. We are interested in individuals with outstanding records of research accomplishment who apply molecular approaches to the study of cancer. Priority will be given to individuals whose research areas complement existing department strengths, including the regulation of gene expression, protein structure and function and signal transduction. We anticipate that at least five new Biochemistry faculty positions will be filled over the next five years.

Successful candidates are expected to develop a vigorous, extramurally-funded research program, participate in one of three program areas within our NCI-designated Cancer Center and have a commitment to teaching excellence. Our faculty members are part of a large and vibrant community of life science researchers at Purdue and participate in interdisciplinary graduate training programs in biochemistry and molecular biology, biophysics, genetics, plant biology, and neuroscience. Support facilities for genomic analysis, DNA and peptide synthesis and sequence analysis, mass spectroscopy, NMR, X-ray crystallography, image analysis, computation, and transgenic animal work are available. For more information about our department, the Purdue Cancer Center and the Walther Cancer Institute, see www.biochem.purdue.edu, www.cancer.purdue.edu, www.walther.org. Applicants should have a Ph.D., at least two years of post-doctoral experience or its equivalent, and a strong publication record. To apply send a curriculum vitae, the names and addresses of three references and a two page summary of research interests to:

Walther Search Committee
Department of Biochemistry
Purdue University
West Lafayette, IN 47907-1153, USA.

Electronic applications are welcome and may be sent to: biochem-cancersearch@purdue.edu, with a follow-up hard-copy to the above address. Screening of applicants will begin September 10, 2001 and continue until the positions are filled. Dual career couples are encouraged to apply. PURDUE UNIVERSITY IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

3 TENURE-TRACK ASSISTANT PROFESSORS DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF NEVADA, LAS VEGAS

The Department of Biological Sciences at the University of Nevada, Las Vegas is searching for three tenure-track faculty members at the ASSISTANT PROFESSOR level. The Department of Biological Sciences has over 500 majors, an active graduate program and a diverse faculty of 22 individuals actively engaged in research projects that span the breadth of the life sciences.

1. Assistant Professor in Microbiology

We seek a broadly trained prokaryotic microbiologist to enhance our departmental strengths in environmental biology. Interested persons whose research specialty lies in the general area of stress physiology, e.g., extreme environments, microbe:metal interactions, environmental stress responses of prokaryotes, symbiosis, etc. are encouraged to apply. The successful candidate will participate in teaching general microbiology to undergraduates and provide specialty courses to upper division and graduate students. For this position, please address applications to Dr. Dawn Neuman (neuman@ccmail.nevada.edu), Chair, Microbiology Search Committee.

2. Assistant Professor in Cell Biology

We are interested in individuals who use a molecular/genetic approach to study basic mechanisms of cell function. Individuals whose research complements existing department strengths in genomics, biotechnology, neuroscience, or environmental stress are especially encouraged to apply. The successful candidate will participate in teaching an introductory course in cell biology or microbiology to undergraduates and provide specialty courses to upper division and graduate students. For this position, please address applications to Dr. Deborah Hoshizaki (dkhosh@nye.nscee.edu), Chair, Cell Biology Search Committee.

3. Assistant Professor in Cellular Processes/Cell Physiology

Applicants are invited for a tenure-track faculty position in the area of eukaryotic cell biology or cell physiology. We especially encourage applications from individuals who use modern molecular and/or biochemical approaches to address cellular function within a comparative and/or environmental context. The successful candidate will participate in teaching an introductory course in general biology or cell biology/physiology to undergraduates and provide specialty courses to upper division and graduate students. For this position, please address applications to Dr. Carl Reiber (reiber@ccmail.nevada.edu), Chair, Cellular Processes Search Committee.

Ph.D. in Biological Sciences or related field is required and postdoctoral experience preferred. The successful candidate for each position will be expected to develop vigorous, extramurally funded research programs and to demonstrate excellence in teaching at both the undergraduate and graduate (M.S./Ph.D.) levels. Position is contingent upon funding. Salary is commensurate with qualifications and experience.

Submit a letter of interest, a detailed CV listing qualifications and experience, teaching and research statements, and arrange for three professional references to be sent to the appropriate search committee.

For more information, visit our web site at: <http://www.unlv.edu/Colleges/Sciences/Biology/> or contact the Department of Biological Sciences at 702-895-3390. Review of all applications will begin November 1, 2001, and continue until the positions are filled. For additional information, see the UNLV World Wide Web site at: <http://www.unlv.edu>

UNLV is an Equal Opportunity/Affirmative Action employer. Persons are selected on the basis of ability without regard to race, color, sex, age, national origin, sexual orientation, religion, disability or veteran status.

Mailing Address
Department of Biological Sciences
University of Nevada, Las Vegas
4505 Maryland Pkwy
Las Vegas NV 89154-4004

POSTDOCTORAL TRAINING IN CANCER RESEARCH AT ROSWELL PARK CANCER INSTITUTE (RPCI)

Postdoctoral training is available in the Department of Molecular Pharmacology and Cancer Therapeutics. Roswell Park Cancer Institute offers a unique opportunity to prepare for careers in academia or pharmaceutical/biotechnology industry. The Department provides research opportunities in diverse areas of basic research including fundamental differences between normal and cancer cells, control of cell cycle and growth, mode of action of current and newly designed anticancer agents, mechanisms of drug resistance, and new targets for cancer treatment.

Terry Beerman, Ph.D. Gene targeting by sequence-specific DNA binding drugs; Cellular response to drug induced DNA damage. terry.beerman@roswellpark.org

Adrian Black, Ph.D. Role of G₁ cyclins and cell cycle control molecules in cancer progression; Alterations in transcriptional regulation in cancer. adrian.black@roswellpark.org

Jennifer Black, Ph.D. Signal transduction in intestinal renewal and carcinogenesis; Cross-talk between signaling pathways and the cell cycle. jennifer.black@roswellpark.org

Michael Brattain, Ph.D. ErbB family signal transduction disruption in cancer; Role of Transforming Growth Factor Beta as a tumor suppressor gene. michael.brattain@roswellpark.org

Bruce Dolnick, Ph.D. The rTS signaling pathway and quorum sensing-like functions in cancer. bruce.dolnick@roswellpark.org

David Goodrich, Ph.D. Molecular and genetic characterization of the Rb gene; Apoptotic signal transduction in response to DNA damage. david.goodrich@roswellpark.org

Margot Ip, Ph.D. Regulation of breast cancer growth by cytokines and NF κ B; Chemoprevention of breast cancer through modulation of stromal-epithelial interactions. margot.ip@roswellpark.org

Fengzhi Li, Ph.D. Cell cycle/transcriptional regulation of cancer/apoptotic genes; Characterizing novel proteins as drug targets. fengzhi.li@roswellpark.org

Athena Lin, Ph.D. Molecular mechanisms of oncogene-activated cellular senescence; Activation and regulation of tumor suppressors in response to oncogenic ras. athena.lin@roswellpark.org

Enrico Mihich, M.D. Immunomodulation-based therapeutics: Anticancer drugs, cytokines, vaccines; Mechanisms of therapeutic immunomodulation. enrico.mihich@roswellpark.org

Janice Sufrin, Ph.D. Drug Discovery. Novel molecules targeting (1) DNA methylation and (2) rTS function using rational and combinatorial synthetic approaches. janice.sufrin@roswellpark.org

Information request. Send cover letter, resume and names of three references directly to individual investigators, c/o **Department of Molecular Pharmacology and Cancer Therapeutics**, Elm & Carlton Streets, Roswell Park Cancer Institute, Buffalo, NY 14263.

Visit us online! www.roswellpark.org/pharmacologytherapeutics

Equal Opportunity Employer

EPPLEY INSTITUTE

FACULTY POSITIONS CANCER RESEARCH



The Eppley Institute for Research in Cancer of the University of Nebraska Medical Center (UNMC) is seeking faculty to conduct research in three general areas. These faculty appointments are tenure leading with academic rank based on candidates' qualifications.

- **Basic Cancer Research:** all areas of molecular, cellular or structural biology related to cancer
- **Cancer Prevention:** molecular, genetics and/or genomics based approaches to cancer prevention
- **Tumor Immunology:** basic or clinical aspects of tumor immunology

The Eppley Institute is an academic unit of UNMC and a key component of the UNMC Eppley Cancer Center, an NCI-designated Cancer Center. Both the Eppley Institute and Cancer Center are in a dynamic growth phase. Applicants should possess a Ph.D., M.D. or other terminal degree and appropriate postdoctoral training. Successful applicants will be expected to develop funded laboratory research programs, collaborate with other faculty and participate in the pre- and post-doctoral training programs of the Eppley Institute, including an NCI-funded Cancer Research Training Program and a DOD-funded Breast Cancer Training Program.

Applicants should indicate which position they are applying for and forward a complete curriculum vitae, a 3 page description of research accomplishments and future research plans, and a minimum of 3 letters of reference to: **Dr. Kenneth H. Cowan, Director, Eppley Institute for Research in Cancer, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, Nebraska, 68198-6805.** Review of applications will begin November, 2001 and will continue until the positions are filled. See <http://www.unmc.edu/Eppley/> for more information.

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is an equal opportunity employer.*

POSITION IN SYSTEMS NEUROSCIENCE CENTER FOR NEUROSCIENCE DBS: NPB UNIVERSITY OF CALIFORNIA, DAVIS

The Center for Neuroscience and the Section of Neurobiology, Physiology and Behavior, in the Div. of Biological Sciences, University of California, Davis, invite applications for a Systems Neuroscientist at the assistant professor level, to begin July 1, 2002. Specialization within the areas of vision, auditory, somatosensory, or motor systems is preferred. We are particularly interested in faculty who can work in conjunction with the Calif. Regional Primate Research Center, located at UC Davis. Applicants will be expected to demonstrate leadership in their research specialty, obtain extramural funds, and teach systems neuroscience courses at both graduate and undergraduate levels. Candidates must possess a Ph.D. or M.D. degree.

Applicants should send a letter describing research and teaching interests, a curriculum vitae, copies of representative publications, and the names of at least five persons from whom references will be obtained to: **Edward G. Jones, Director, Center for Neuroscience, 1544 Newton Court, University of California, Davis, CA, 95616-8659.** All materials must be received by December 31, 2001, to be assured consideration. The search will continue until this position is filled.

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Center for Neuroscience
University of California, Davis

The University of Illinois at Urbana-Champaign School of Molecular and Cellular Biology Multiple Faculty Positions in Molecular and Cellular Biology

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites applications for faculty positions in all areas of Molecular and Cellular Biology. This search is part of a multi-year recruitment program. Of particular interest this year are:

**Genetics (especially Human Genetics)
Immunology
Neurobiology**

Outstanding applicants in other areas of Cellular and Molecular Biology will also be considered.

These positions are full-time and tenure track in the departments of Biochemistry, Cell and Structural Biology, Microbiology, and Molecular and Integrative Physiology in the College of Liberal Arts and Sciences and in the College of Medicine. Although we anticipate most of these appointments will be made at the Assistant Professor level, applications for positions at the Associate and Full Professor levels will also be considered and highly qualified scientists at these levels are encouraged to apply. The starting date for these positions is August 2002. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Applicants at all levels will be expected to contribute effectively to undergraduate/graduate teaching.

The University of Illinois at Urbana-Champaign has added significant faculty strength in the biological sciences over the last three years and we anticipate additional hires in these and related areas each year for the next several years. Successful candidates will be provided with excellent laboratory facilities, substantial start-up funds, and a salary commensurate with experience. The University of Illinois at Urbana-Champaign offers a highly interactive, interdisciplinary research environment and state-of-the-art research support facilities. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities and easy access to Chicago and St. Louis. Information concerning the School of Molecular and Cellular Biology at the University of Illinois can be found at <http://www.life.uiuc.edu/mcb/>.

Applications should be submitted to: **School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, 505 S. Goodwin Ave., Urbana, IL 61801.** An application must include a curriculum vitae, with a complete list of publications and a concise summary of past research accomplishments and future plans. Please specify research area, identified above, in top right corner of cover letter. Please arrange to have four letters of recommendation sent to the same address.

Electronic submissions as pdf files are encouraged and should be sent to mcbsearch@life.uiuc.edu. To ensure full consideration, applications should be received by Dec. 3, 2001. Interviews may be conducted before the closing date but no hires will be made until after the search is closed.

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fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AAAS Science + Technology Policy Fellowships, 2002:03 >>>

What >>> Help shape science and technology policy in Washington, DC: Contribute scientific and technical information and external perspectives to federal decision-making, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends begin at \$55,000.

Who >>> Applicants must have a Ph.D. or an equivalent doctoral-level degree by the application deadline from any physical, biological or social science, any field of engineering or any relevant interdisciplinary field. Individuals with a master's degree in engineering and at least three years of post-degree professional experience also may apply. U.S. citizenship is required. Federal employees are ineligible. Approximately 50 fellowships are awarded in 10 different programs. Underrepresented minorities and persons with disabilities are encouraged to apply.

When >>> The fellowship year begins September 1, 2002. Fellows attend a two-week orientation before beginning their assignments and participate in a year-long seminar series on topics relevant to science, technology and public policy. **Application deadline is January 10, 2002.**

Where >>> Fellows are placed in the Congress, the National Science Foundation, the National Institutes of Health, the Department of State, the Department of Defense, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration, the Department of Justice, the Department of Energy and other federal offices.

Why >>> AAAS sponsors these programs to provide the opportunity for accomplished and societally-aware scientists and engineers to participate in and contribute to the public policy making process of the federal government. The programs include:

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| + Congressional Fellows | + Diplomacy Fellows | + AAAS/NTI Fellows in Global Security |
| + AAAS/NIH Science Policy Fellows | + Defense Policy Fellows | + Risk Policy Fellows |
| + AAAS/NSF Science and Engineering Fellows | + Science, Justice, and Public Policy Fellows | + Roger Revelle Fellows in Global Stewardship |
| | + Environmental Fellows | |

How >>> For application instructions and further information: www.fellowships.aaas.org. AAAS Science and Technology Policy Fellowship Programs, 1200 New York Avenue, NW, Washington, DC 20005 • Phone 202/326-6700 • E-mail science_policy@aaas.org

→ www.fellowships.aaas.org





Biology of Cell Cycle Control Postdoctoral Position

Funded postdoctoral positions are immediately available for highly motivated individuals to study the regulation of cell cycle progression within the Cancer Biology Department of the Leonard and Madlyn Abramson Family Cancer Research Institute of the University of Pennsylvania Cancer Center. Ongoing projects include elucidation of the mechanisms/pathways that regulate cyclin D nuclear import/export; characterization of oncogenic cyclin D1 mutants (Genes and Dev 2000;14:3102-3114); characterization of novel checkpoint and cell survival (PNAS 97:12625-12630).

To apply, please send CV, brief description of research interests, reprints of recent publications, and contact information for three references to:

J. Alan Diehl Ph.D.
Assistant Professor
454 BRB II/III
421 Curie Blvd.
Philadelphia, PA
19104-6160
or email:
adiehl@mail.med.upenn.edu.



Affirmative Action / Equal Opportunity Employer



DEAN COLLEGE OF NATURAL RESOURCES UNIVERSITY OF CALIFORNIA, BERKELEY

The University of California, Berkeley invites nominations and applications for the position of Dean of the College of Natural Resources. The appointee is expected to join the faculty beginning July 1, 2002, or thereafter.

The College comprises four Departments: Plant and Microbial Biology, Environmental Science, Policy and Management, Agricultural and Resource Economics, and Nutritional Sciences and Toxicology, as well as several additional Centers of expertise. These programs enroll approximately 700 undergraduate students and 300 graduate students, and are supported by 120 faculty and 20 environmental and agricultural Specialists.

The goals of the College are to increase knowledge and understanding of ecosystems, promote sustainable use of natural resources, and provide the foundations for sustainable and equitable environmental management. The College addresses the challenges and opportunities posed by the rapid growth and transformation of urban society, the development of biotechnology, and the evolving institutions for environmental and resource management.

Applicants should have demonstrated excellence, originality, and productivity, an interest in undergraduate and graduate education, and experience in successful management.

Applications should include a curriculum vitae, bibliography, a brief description of research or other interests, and management accomplishments and objectives. Please send these materials, along with the names and addresses of three references, to:

Chair, Search Committee
Dean of the College of Natural Resources
Office of the Vice Provost
200 California Hall
University of California
Berkeley, CA 94720-1500

Nominations also are sought: These should include the name, title and address of the nominee, and a brief statement of the nominee's qualifications.

Applications or nominations must be received by January 1, 2002 (phone: 510-642-6474 / e-mail: kriordan@uclink.berkeley.edu / Fax: 510-642-3359).

The University of California is an Affirmative Action/Equal Opportunity Employer.

Faculty Recruitment Genetics and Molecular Biology Branch National Human Genome Research Institute



The Genetics and Molecular Biology Branch (GMBB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit an outstanding scientist to pursue an independent, multidisciplinary clinical or basic research program in any of the following broad areas of research:

Developmental Genetics
Gene Therapy
Human Genetics
Stem Cell Biology

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI, the NIH Clinical Center, and the NIH campus as a whole.

This fully funded, tenure-track or tenured position will include a generous start-up allowance, an ongoing commitment of clinical and laboratory resources as needed, and positions for support of personnel and trainees. In addition to the resources of the NIH Clinical Center, all faculty have ready access to NHGRI core facilities that provide a high level of support for transgenic mouse and ES cell technology, cytogenetics, fluorescent and confocal microscopy, flow cytometry, sequencing, DNA microarray technology, and computational and genomics resources.

Candidates must have a Ph.D. and/or M.D. as well as comprehensive, advanced training and accomplishment in one of the targeted areas. The NIH is an equal opportunity employer and encourages applications from women and minorities. Interested applicants should send a curriculum vitae, a three-page description of proposed research, and three letters of recommendation to:

GMBB Faculty Search Committee
c/o Ms. Regina Reese
Building 49, Room 3A-14
49 Convent Drive
Bethesda, Maryland 20892-4442

Closing Date: December 31, 2001

For more information on GMBB and NHGRI's Intramural Program, please see http://www.nhgri.nih.gov/Intramural_research



Faculty Recruitment Genetic Disease Research Branch National Human Genome Research Institute



The Genetic Disease Research Branch (GDRB) of the National Human Genome Research Institute (NHGRI) is seeking candidates for an Investigator position in Bench-to-Bedside research. We seek an outstanding M.D. or M.D./Ph.D. investigator to organize and carry out a research program that integrates vigorous bench research with an active clinical research program performed in the NIH Clinical Center. The successful candidate will be capable of building an innovative research program that expands our knowledge of normal and abnormal development or physiology, leading to a greater understanding of the etiology and pathogenesis of human disease and to improved diagnosis and therapy. We are particularly interested in researchers with an interest in developmental biology, genome analysis, biochemical genetics, proteomics, stem cell biology, or neurogenetics that would integrate well with the ongoing research in the Branch.

This fully-funded, tenure-track or tenured position will include a generous start-up allowance, an ongoing commitment of clinical and laboratory resources as needed, and positions for support of personnel and trainees. In addition to the resources of the NIH Clinical Center, all faculty have ready access to NHGRI core facilities that provide a high level of support for transgenic mouse and ES cell technology, cytogenetics, fluorescent and confocal microscopy, flow cytometry, sequencing, DNA microarray technology, and computational and genomics resources. Candidates must have or be eligible for U.S. medical licensure and receive credentialing for patient care in the NIH Clinical Center. Board eligibility or certification in an AAMS-recognized medical specialty is desirable.

The NIH is an equal opportunity employer and encourages applications from women and minorities. Interested applicants should send a curriculum vitae, a three-page description of proposed research, and three letters of recommendation to:

GDRB Translational Research Search Committee
c/o Ms. Valerie McDonald
Building 49, Room 4A-83
49 Convent Drive
Bethesda, Maryland 20892-4472

Closing Date: December 31, 2001

For more information on GDRB and NHGRI's Intramural Program, please see http://www.nhgri.nih.gov/Intramural_research



POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Structural Biology X-Ray Crystallography

The School of Biological Sciences, University of Missouri-Kansas City, is expanding its structural biology program and seeking applicants with expertise in X-ray crystallography for a tenure-track faculty position. Structural biology is one area designated by the school for continued expansion in faculty and facilities. Current facilities include electrospray and MALDI-TOF MS, electron and confocal microscopy, NMR, gene microarray, high-throughput DNA sequencing, CD, fluorescence, FTIR, and Raman spectroscopy. The School possesses an excellent macromolecular X-ray crystallography facility and is a member of SER-CAT, which is building two beamlines at APS. The new faculty member will be expected to maintain a nationally recognized research program in any area of structural biology and teach at both the undergraduate and graduate levels. Generous start-up funds are available. Submit curriculum vitae and summary of present and future research and request three letters of recommendation be forwarded to: **Dr. Marilyn D. Yoder, Chair, Structural Biology Search Committee, BSB 114, School of Biological Sciences, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110-2499.**

Equal Opportunity/Affirmative Action Employer.

The Biology Department at Grand Valley State University is seeking a **DEVELOPMENTAL BIOLOGIST (TENURE TRACK)** to join a rapidly growing group of faculty with interests in cellular and molecular biology. Teaching responsibilities will include animal developmental biology and introductory biology. Successful candidates will be broadly trained Biologists with a Ph.D. and interest and experience in developmental biology. Preference will be given to candidates who have demonstrated success in teaching and research involving undergraduates. Excellent communication skills are required. A complete application consists of an application letter; curriculum vitae; unofficial transcripts; statements of teaching and research interests, goals, and expectations; and names and addresses of three references. Review of candidate files will begin 23 November 2001. Applications will be accepted until the position is filled. Submit materials to: **Dr. Lowry C. Stephenson, Chair, Developmental Biology Search Committee, Biology Department, Grand Valley State University, Allendale, MI 49401-9403. E-mail: stephenl@gvsu.edu; Telephone: 616-895-3103; FAX: 616-895-3446; website: <http://www.gvsu.edu/biology>.** Grand Valley State University is an Affirmative Action/Americans With Disabilities Act/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Tenure-track faculty position, cancer research, Penn State College of Medicine: The Department of Pathology, Division of Experimental Pathology, is seeking to fill two positions at the level of **ASSISTANT/ASSOCIATE PROFESSOR**. Candidates must have a research emphasis in basic cancer genetics/molecular biology or translational studies, a Ph.D. and/or M.D. degree, relevant postdoctoral experience, and a strong record of research accomplishments. Candidates are expected to establish an independent research program with external funding and to participate in teaching activities within the college. A generous recruitment package is available including start-up and/or ongoing research funding through the Jake Gittlen Cancer Research Institute. Applicants should submit a cover letter, curriculum vitae, research prospectus, and contact information for three references to: **Dr. K. Eckert, Chair, Gittlen Search Committee, Hershey Medical Center H059, Position Number: S-11905, 500 University Drive, Hershey, PA 17033.** Electronic submissions are strongly encouraged; send to: **e-mail: sqk8@psu.edu.** Review will commence September 15, 2001. Department website: <http://www.hmc.psu.edu/pathology.gittlen>. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



The Division of Biology at the California Institute of Technology seeks applicants for a tenure-track appointment as **ASSISTANT PROFESSOR** of biology in the field of computational biology. We define this field broadly to include bioinformatics at genomic and proteomic levels and application of mathematical or computational methods to biological systems such as cellular components, cells, signal transduction pathways, and multicellular assemblies. We will also consider applicants who combine these methods with experimental approaches. Candidates should have a demonstrated ability to carry out high-quality research in their fields of expertise and be willing to participate in the teaching program at graduate and undergraduate levels. The term of initial appointment at the Assistant Professor level is normally four years and is contingent upon completion of requirements for a Doctoral degree. Applicants should submit detailed curriculum vitae and list of publications with at least three letters of recommendation and a statement describing their future research and teaching interests to:

**Chair
Computational Biology Search Committee
Division of Biology 216-76
California Institute of Technology
Pasadena, CA 91125**

The California Institute of Technology is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

ASSISTANT PROFESSOR Cellular and Molecular Biology

The Department of Microbiology and Molecular Cell Sciences at The University of Memphis invites applications for the first two of four tenure-track Assistant Professor positions to be filled in the next few years. We seek outstanding candidates with postdoctoral experience who are asking significant questions in any area of cell and molecular biology. Candidates will be expected to establish an externally funded research program and participate in our educational programs. Competitive salary and start-up package.

An integrated microscopy center, the W. H. Feinstein Center for Genomic Research and the Department are housed in the Life Sciences building. Additional information about the Department can be found at website: <http://www.memphis.edu/mmcs>. Applicants should submit curriculum vitae, concise statement of research plans, and three letters of recommendation to: **Steven Schwartzbach, Search Committee Chair, Department of Microbiology and Molecular Cell Sciences, The University of Memphis, 201 Life Sciences, Memphis, TN 38152-3560.** Review of applications will begin December 1, 2001, and continue until the position is filled. *Equal Opportunity/Affirmative Action Employer. Applications from two-career couples are welcome.*

POSTDOCTORAL POSITION available to investigate the molecular basis of pathogenesis in mouse models of autoimmunity. Experience in molecular/cellular immunology is desirable but strong applicants from other areas are encouraged to apply. Please send curriculum vitae and details of three references to: **Dr. E. Sally Ward, Center for Immunology, University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75390-8576 U.S.A. E-mail: sally.ward@utsouthwestern.edu.** *Equal Opportunity Employer.*

ASSISTANT PROFESSOR

Human physiology/neurobiology/introductory human biology. Assistant Professor. Tenure-track; Department of Biomedical Sciences, Southwest Missouri State University. Start date: August 2002. For full information, see our website: <http://www.smsu.edu/contrib/bms/biomed.html>. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MOLECULAR VERTEBRATE EVOLUTIONARY BIOLOGIST St. Mary's College of Maryland

The Department of Biology invites applications for a tenure-track appointment at the **ASSISTANT PROFESSOR** level to begin August 2002. We seek a Biologist who studies vertebrate evolution using molecular tools and who is committed to teaching and research with undergraduate students at a small public liberal arts college. Teaching responsibilities include upper-division courses in molecular evolution and vertebrate biology, occasional introductory courses for nonmajors, and participation in biology core curriculum. Applicants should have a Ph.D. before the starting date. To apply, please submit a cover letter, curriculum vitae (with e-mail address), statement of research interests and teaching philosophy, and three letters of reference to: **Vertebrate Evolution Search Committee, Department of Biology, 18952 East Fisher Road, St. Mary's College of Maryland, St. Mary's City, MD 20686-3001. FAX: 240-895-4996.** Review of applications will begin immediately and continue until the position is filled.

St. Mary's College of Maryland, a public Carnegie Baccalaureate liberal arts institution located 70 miles southeast of Washington, D.C., in St. Mary's City, is Maryland's designated honors college. With highly selective admissions policies, academically talented students, and a rigorous curriculum, we have been labeled a "public Ivy." St. Mary's faculty benefit from a comprehensive program of support for scholarship, research, travel, curriculum development, and sabbaticals for pretenured and tenured faculty. The quality of life is enhanced by the recreational opportunities of the Chesapeake region and proximity to Washington, D.C., and Baltimore, Maryland. Visit our website: www.smcm.edu.

SMCM is an Affirmative Action/Equal Opportunity Employer.

IMMUNOBIOLOGY/BIOLOGY Bucknell University

Applications are invited for an entry-level, tenure-track **ASSISTANT PROFESSOR** position beginning August 2002 in the Department of Biology and Program in Cell Biology/Biochemistry at Bucknell University. Ph.D. required. Applicants should be broadly trained in biology with expertise in immunobiology. Teaching responsibilities will include participation in majors and nonmajors introductory biology courses, upper-level courses in immunobiology, and supervision of undergraduate research. A cover letter, statements of teaching philosophy and research goals, curriculum vitae, and three letters of recommendation should be submitted to:

**Dr. Wayne McDiffett, Chair
Biology Department
Bucknell University
Lewisburg, PA 17837
E-mail: mcdifftr@bucknell.edu
Telephone: 570-577-1124
FAX: 570-577-3537
Website: <http://www.departments.bucknell.edu/biology>**

Review of applications will begin November 12, 2001. The search will remain open until the position is filled. *Bucknell University encourages applications from women and members of minority groups. Equal Employment Opportunity/Affirmative Action.*

Tenure-track **ASSISTANT PROFESSOR** of microbiology beginning August 2002. Ph.D. required; postdoctoral experience preferred. Teaching includes graduate and undergraduate courses. Scholarly research involving students expected. Departmental information at website: http://www.shsu.edu/~bio_www/. Send résumé, statements of teaching philosophy and research interests, three letters of reference, and transcripts to: **Dr. Joan Hudson, Chair, Search Committee, Department of Biological Sciences, Box 2116, Sam Houston State University, Huntsville, TX 77341-2116.** Review will begin 15 November 2001. *SHSU is an Equal Employment Opportunity/Affirmative Action Professional Employer.*

OHSU MOLECULAR PHYSIOLOGY AND PHARMACOLOGY

The Department of Physiology and Pharmacology at the Oregon Health and Sciences University invites applications for **tenure-track**, faculty positions from individuals working in areas related to the molecular analysis of cellular function and drug action. Preference will be given to candidates for the position of **Assistant Professor**, but exceptional candidates for the rank of **Associate** and **Full Professor** will also be considered. **Targeted areas** include, but are not limited to:

- **Channel/transporter/receptor structure-function and targeting**
- **Real-time imaging of cellular processes**
- **Quantitative analysis and modeling of physiological systems**
- **Identification of novel drug targets**
- **Chemical biology/development of novel probes and indicators**

We seek individuals who will develop an independent research program, contribute to the teaching of Medical Students and Graduate Students and interact with investigators studying drug metabolism, signal transduction, ion channel biology, G-protein coupled receptors and cardiovascular and reproductive biology. OHSU offers a highly interactive research environment and superb opportunities for career development in the spectacular setting of the Pacific Northwest. Applications or inquiries may be directed to: **David C. Dawson, Ph.D. (dawsonda@ohsu.edu)**, Professor and Chair, Faculty Search (MPP), Department of Physiology and Pharmacology (L334), Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland OR, 97201-3098.

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

National Research Council Summer Faculty Fellowships at Air Force Research Laboratories

- ♦ 25 to 100 Fellowships in 2002 ♦ generous stipend ♦
- ♦ daily expense allowance where applicable ♦
- ♦ 8-14 continuous weeks between April 29 and September 30 ♦

Locations: Wright-Patterson AFB, OH; Kirtland AFB, NM; Brooks AFB, TX; Rome, NY; Tyndall AFB, FL; Eglin AFB, FL; Edwards AFB, CA; Hanscom AFB, MA; USAF Academy, CO

Eligibility: US citizens or legal permanent US residents
Full-time faculty with Ph.D. in science or engineering working at accredited baccalaureate granting US institutions.

For further information and application materials, see the NRC Web site at:

www.national-academies.org/rap.

If assistance is needed, contact:

Mail: National Research Council, 2101 Constitution Ave NW, TJ 2114/SF
Washington, DC 20418

E-mail: rap@nas.edu **Tel:** 202-334-2760 **Fax:** 202-334-2759

Application deadline — January 15, 2002

Biochemist and Physical Chemist - The Williams College Chemistry Department invites applications for two tenure-track positions at the Assistant Professor level for Fall 2002. (A senior appointment is possible in exceptional circumstances.) Preference for the **biochemistry position** will be given to applicants with research interests in experimental biochemistry. Initial teaching assignment in this position, depending upon the successful candidate's subspecialty, will include two courses from: biochemistry, biophysical chemistry, introductory chemistry, and a course for non-science majors. Preference for the **physical chemistry position** will be given to applicants with research interests in experimental physical chemistry; interests in environmental chemistry/analysis will be a plus. Initial teaching assignment in this position, depending upon the successful candidate's subspecialty, will include two courses from: physical chemistry, introductory chemistry, introductory environmental science, and instrumental methods of analysis. A semester teaching load for each position normally includes complete responsibility for one course and two laboratory sections, and supervision of student research projects. Candidates should have a Ph.D. or completed dissertation by September 2002. Postdoctoral experience is preferred. The successful candidates must have a strong commitment both to teaching at the undergraduate level and to developing a productive research program.

Williams College is a highly selective, coeducational liberal arts institution of approximately 230 faculty and 2000 undergraduates, located in northwestern Massachusetts. The Chemistry Department, with 12 faculty members and about 25 majors each year, has excellent facilities for teaching and research. A new 47-million dollar science complex was completed in 2000. The College is actively working to increase the ethnic and gender diversity of its science majors and seeks individuals who can help us meet these goals.

Send resume, undergraduate and graduate transcripts, description of teaching philosophy, description of research projects for undergraduates, and three letters of recommendation to: **Professor David P. Richardson, Chair, Department of Chemistry, Williams College, Williamstown, MA 01267**, by November 27, 2001. For additional information about the Chemistry Department visit our website at <http://www.williams.edu/Chemistry>.

Williams College is an EO/AA Employer.

Postdoctoral/scientist positions: Three positions are available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development, with an emphasis on islet stem cell biology and applications of islet transplantation to treatment of diabetes. Applicants are expected to have a strong background in cellular and developmental biology. Expertise in biology of pancreas is preferred but not required. The positions offer an exceptional opportunity to study pancreatic differentiation using several model systems, and to explore the relationships between pancreatic and non-pancreatic development within the interdisciplinary approaches of stem cell biology. Salary is commensurate with experience. Interested applicants should send a curriculum vitae and names of three references to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818**.

Research associate/technician: Position is available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development and applications stem cell technology to treatment of diabetes. Applicant must have a B.S. or M.S. degree in biochemistry, molecular biology or cell biology with at least 2 years of professional experience. Expertise in standard molecular biological, biochemical, and mammalian cell culture techniques is required. Responsibilities include performing laboratory experiments independently as well as a part of a team, keeping records of experimental procedures and reagents, and conducting laboratory management/organizational tasks. Salary is commensurate with experience. Interested applicants should send a curriculum vitae to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818**.

POSITIONS OPEN

TWO FACULTY POSITIONS Physiology and Aquatic Biology

The Biology Department at Clarkson University invites applications for two tenure-track positions beginning August 2002. Rank is at the **ASSISTANT PROFESSOR** level but hiring at **ASSOCIATE** or **FULL PROFESSOR** level is possible. The possibility of an Endowed Chair exists for the candidate with commensurate experience. Responsibilities include both teaching and maintaining an externally funded research program.

Physiologist: We are seeking a Neurophysiologist or Physiologist whose research incorporates molecular biological approaches and who can contribute to our health science and/or biomolecular science programs. Teaching duties include human and comparative anatomy and/or physiology and upper-level courses in his/her area of specialty. Position Number 34-01.

Aquatic Biologist: We seek a broadly trained Aquatic Biologist or Botanist whose research interests are complementary to the mission of the Great Rivers Research Center, a multidisciplinary research facility that is being developed on the Saint Lawrence River. The ideal candidate will teach botany and/or courses related to aquatic environmental science and will interact with faculty in the Center for Environmental Management and the Environmental Science and Policy program. Position Number 33-01.

Clarkson University is a small, private technological university whose mission balances high-quality undergraduate and graduate education with excellence in research. Clarkson is located in a rural setting just outside the Adirondack Park, with year-round outdoor recreational opportunities. Clarkson lies within minutes of three other universities and within two hours of Montreal and Ottawa, Canada, and Lake Placid, New York. Candidates should submit curriculum vitae, research and teaching statements, sample reprints, and three letters of reference to: **Search Committee, Department of Biology, Clarkson University, Potsdam, NY 13699-5825.** Review of applications will begin on December 1, 2001. Additional details about these positions can be found at **website: <http://www.clarkson.edu/~biology>.** *Clarkson University is an Equal Opportunity/Affirmative Action Employer.*

NEUROBIOLOGY FACULTY POSITION University of Alabama at Birmingham

The Department of Neurobiology at the University of Alabama at Birmingham has an opening for a tenure-track or tenured faculty position at either the **ASSISTANT PROFESSOR**, **ASSOCIATE PROFESSOR**, or **PROFESSOR** level commensurate with experience. We seek an individual with outstanding research productivity or promise in molecular neurobiology. Investigators addressing issues related to signaling including genomics or proteomics in nervous system development are encouraged to apply. The successful candidate at the Assistant Professor level will have completed highly productive postdoctoral training and be capable of running an active, extramurally funded laboratory. The successful candidate at the Associate or Full Professor level will have an established record of scientific leadership with consistent extramural funding of their research program. Generous start-up funds and salary are available. The Department of Neurobiology has 13 primary faculty with over \$8 million in annual extramural research funding and participates in training graduate students through interdisciplinary neuroscience, cellular and molecular biology, and M.D./Ph.D. programs. The Department also houses NIH program project and center grants on nervous system development and a wide array of core facilities for imaging, electrophysiology, molecular biology, and genetics. Deadline for receipt of applications is December 1, 2001. Please send curriculum vitae, statement of research plan, and have three letters of reference sent to: **Michael Friedlander, Ph.D., Chairman, Department of Neurobiology, University of Alabama at Birmingham, 1719 Sixth Avenue South, 516 CIRC, Birmingham, AL 35294-0021.** *UAB is an Equal Opportunity Employer.*

POSITIONS OPEN



ASSISTANT PROFESSOR DEPARTMENT OF CELL BIOLOGY Harvard Medical School

The Department of Cell Biology invites applications for a tenure-track position at the rank of Assistant Professor. We seek outstanding individuals working on fundamental problems in cell biology using molecular, genetic, chemical, developmental, physiological, bioinformatic, or other approaches. Applicants should send curriculum vitae that includes annotations of their two to three most significant publications, a one-page summary of previous research contributions, and a one-page description of plans for future work. Applicants should arrange to have three to five letters of recommendation sent to the Search Committee. Send all materials to:

**Faculty Search Committee
Department of Cell Biology
Harvard Medical School
240 Longwood Avenue
Boston, MA 02115**

Website: <http://cellbio.med.harvard.edu/cellbiolsearch@hms.harvard.edu>

Review of applications begins December 1, 2001. *Equal Opportunity Employer.*

The Department of Pharmacology and Toxicology at the University of Arkansas for Medical Sciences (**website: <http://www.uams.edu/pharmtox/pharmtox.htm>**) invites applications for a **TENURE-TRACK** position. The level of academic rank is open, and candidates with research interests and training in all areas of pharmacology and toxicology will be considered. We are particularly interested in candidates with research interests that will complement and broaden existing strengths in the areas of drug abuse, neurophysiology, autonomic pharmacology, and medications development. Candidates with expertise in proteomics and genomics are especially encouraged to apply. Applicants should be able to develop independent and collaborative research programs and participate in the instruction of medical and graduate students. Applicants at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level will be expected to have extramural funding. Applicants should submit a letter of interest, curriculum vitae, and the names of three references to: **Dr. Galen R. Wenger, Director, Division of Pharmacology, Department of Pharmacology and Toxicology, Mail Slot 611, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205.** *The University of Arkansas for Medical Sciences is an Affirmative Action/Equal Opportunity Employer.*

PLANT PHYSIOLOGIST University of Puget Sound

Full-time, tenure-track **ASSISTANT PROFESSOR** position; begins fall term 2002. Teach a junior-level course in plant physiology; a freshman-level principles course that emphasizes cell biology, genetics, and physiology; and a sophomore-level class in cell biology. All courses have both lecture and laboratory components. Normal teaching load is one lecture section and three or four laboratories or two lecture sections and two laboratory sections each semester. Maintain an active research program involving undergraduate students. Ph.D. with emphasis in plant physiology and commitment to undergraduate teaching and liberal arts education. Preference will be given to candidates who use molecular techniques to address broader questions of plant physiology in their research. Postdoctoral teaching or research experience desirable. To apply, submit interest letter; teaching and research statements; curriculum vitae; and three reference letters by November 19, 2001, to: **Plant Physiologist Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98406.** *An Equal Opportunity/Affirmative Action Educator/Employer.*

POSITIONS OPEN

ASSISTANT, ASSOCIATE, OR FULL PROFESSOR Molecular Biology/Molecular Genetics Department of Molecular, Cellular, and Developmental Biology

We invite applications for two tenure-track faculty positions in our expanding basic research programs. We seek highly creative and interactive candidates with demonstrable records of innovative research who are applying molecular genetic approaches to fundamental problems in the molecular, cellular, and developmental biosciences. One of the positions is to be filled at the Assistant Professor level while the other may be filled at any rank (Assistant, Associate, or Full Professor) depending upon the qualifications of the candidate. A Ph.D. or equivalent degree and postdoctoral experience are required. The appointees will be expected to lead vigorous, independent research programs and to participate effectively in undergraduate and graduate instructional activities.

Submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and arrange to have a minimum of three letters of reference sent to: **Molecular Genetics Search Committee, Department of Molecular, Cellular, and Developmental Biology, University of California, Santa Barbara, CA 93106.** **Website: <http://www.lifesci.ucsb.edu/mcdb/departament/employment/employment.php#faculty>.**

Review of applications will begin on November 20, 2001, and will continue until the positions are filled.

UCSB is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR FACULTY POSITION

The Breast Center, Baylor College of Medicine

The Breast Center at Baylor College of Medicine in Houston, Texas, invites applications for a tenure-track position at the level of Assistant or Associate Professor. We seek to recruit outstanding individuals who can complement strengths of the Center. Research areas such as DNA repair, hereditary breast cancer genes, angiogenesis, and metastasis are of particular interest.

Candidates with a Ph.D. or an M.D. degree and an excellent record of productivity should submit curriculum vitae, copies of three key publications, a summary of past work, future research plans, and at least three letters of reference before December 2001 to:

**Dr. Suzanne A. W. Fuqua
Chair, Search Committee
Breast Center
Baylor College of Medicine
One Baylor Plaza, MS: 600
Houston, TX 77030
FAX: 713-798-1642**

Equal Opportunity/Affirmative Action/Equal Access Employer.

POSTDOCTORAL POSITIONS to study transcriptional regulation of genes involved in lipid biosynthesis and adipocyte differentiation. Research areas include (1) molecular function and regulation of factors (including pref-1) and ADSF/resistin that control adipocyte differentiation and (2) hormonal/nutritional regulation of lipogenic gene transcription. Send curriculum vitae and names of references to: **Dr. Hei Sook Sul, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104.** **FAX: 510-642-0535; e-mail: hsul@nature.berkeley.edu.**

Two **POSTDOCTORAL POSITIONS** are available immediately to study endothelial signaling by hypoxia and vascular pathogenesis of leukemia. Research requires dedication and involves cDNA microarray, cloning, RNase protection, protein analysis, study of angiogenesis, and apoptosis. Salary: \$36,000 to \$45,000 depending on skills. Send curriculum vitae with names of three references to: **Olcay Batuman, M.D., Division of Hematology, SUNY Downstate, 450 Clarkson Avenue, Box 20, Brooklyn, NY 11203.** **E-mail: obatuman@downstate.edu.**

Curator of Mammals University of Alaska Fairbanks

The University of Alaska Museum, Department of Biology and Wildlife, and the Institute of Arctic Biology at the University of Alaska Fairbanks seek qualified applicants for a position as Curator of Mammals for a tenure-track appointment as Assistant, Associate, or Professor of Biology. The appointee is expected to curate and develop the mammal collection, teach one course per year (mammalogy alternated with a graduate-level course in an area of specialty), supervise graduate students, and establish a vigorous, extramurally funded research program complementing programs in genetics and evolutionary biology. The mammal collection comprises the largest collection of Alaska mammals and represents a major component of the Alaska Frozen Tissue Collection. A core laboratory for automated DNA sequencing and a supercomputer are available. Opportunities also exist to use field and research stations such as the Robert G. White Large Animal Research Station and the Toolik Field Station. Applicants with experience in managing and using traditional museum collections, possessing a background in evolutionary and comparative biology, and with experience using modern molecular techniques are preferred. An earned Ph.D. is mandatory, and post-doctoral experience is preferred. A collection manager, laboratory space, and start-up funds are included. The appointment should begin in August 2002. Senior Associate and Full Professors may be expected to assume a leadership role as senior curator of six biological collections. Further information about the Museum, including its major expansion in 2003, the Biology and Wildlife Department, and the Institute of Arctic Biology is available at www.uaf.edu/museum, <http://mercury.bio.uaf.edu> and <http://mercury.bio.uaf.edu/iab/index.html>.

Send a letter of application including statements concerning teaching, research, curation interests and experience, curriculum vitae, and three letters of reference by November 9, 2001 to: **Dr. R. Terry Bowyer, Chair, Curator of Mammals Search Committee, Institute of Arctic Biology, University of Alaska Fairbanks 99775-7000, (907) 474-5311; ffrtb@uaf.edu.**

The University of Alaska is an Equal Opportunity and Affirmative Action Employer and educational institute. Women and minorities are encouraged to apply.

FACULTY POSITION

Department of Biochemistry & Molecular Biology
University of Medicine and Dentistry of New Jersey
New Jersey Medical School

The department is continuing its expansion & is looking for outstanding, highly motivated & accomplished Molecular Biologists/Biochemists. Applicants are invited for a **TENURE-TRACK POSITION** at the level of Assistant Professor. Applications from established investigators at a more senior level will also be considered. Successful candidates will be expected to pursue an active program of biomedical research, preferably within the area of eukaryotic gene expression, viruses & cancer & to participate in graduate & medical teaching. We especially encourage applications from individuals using state-of-the-art techniques to attack problems related to human disease.

Located in the University Heights section of Newark, a few minutes from New York City & pleasant NJ suburbs, UMDNJ-New Jersey Medical School provides a stimulating & collegial environment with substantial resources.

Send a complete curriculum vitae, brief outline of your research plans & the names of 3 references, to: **Dr. Michael B. Mathews, Chairman, Department of Biochemistry & Molecular Biology, UMDNJ- New Jersey Medical School, 185 South Orange Ave., MSB/E609, University Heights, Newark, NJ 07103-2714.**

UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V.



UMDNJ

UNIVERSITY OF MEDICINE &
DENTISTRY OF NEW JERSEY

a m a x a
biosystems

amaxes biosystems is a young, rapidly expanding research-oriented biotechnology company with an international focus. amaxes is dedicated to the development, production and international marketing of innovative technologies for non-viral gene transfer especially into primary cells.

amaxes launched its first line of products (Nucleofector™ and Nucleofector™ Kits) in May 2001. The company develops further products for clinical applications. To do this amaxes has built an exceptionally large and qualified R&D section for non-viral gene transfer.

We are looking for a candidate who wants to join a highly motivated, success-driven team and who is interested in combining his/her scientific background with an entrepreneurial environment.

amaxes offers the following career opportunity in the headquarters in Cologne, Germany:

Vice President Research and Development

The successful candidate will direct and expand the internal R&D organization, manage external collaborations and contribute to strategic planning. He/she should have demonstrated scientific excellence and combine it with a proven track record of R&D management in academia and the biotech industry. The Vice President Research and Development will report to the Chief Scientific Officer.

Responsibilities:

- Provide the dynamic leaderships necessary for the initiation and execution of core technologies, corporate partnering strategies and programs that meet the current and anticipated needs of the company.
- Challenge, motivate and encourage scientific staff to extend efforts into selected areas. Maintain scientific excellence as well as obtain commercial objectives in time.

Qualifications:

- PhD in life sciences, with at least 5 years of postdoctoral research and biotech industry experience.
- Recognition as an outstanding and creative scientist through extensive scientific publications, accomplishments and/or industry-wide reputation.
- Personal desire and ability to lead a scientific organization throughout an entrepreneurial company's growth stages.
- Proven interpersonal and leadership skills. Personal attributes to include decisiveness, flexibility, patience, and ability to motivate highly competent scientific staff.

For further details and to apply please contact:

Dr. Erika Hoegen
Human Resources
amaxes GmbH
Gottfried-Hagen-Str. 60-62
51105 Köln
Germany
Phone: +49/221/99199-160
Fax: +49/221/99199-179
Email: recruiting@amaxes.com
www.amaxes.com

POSITIONS OPEN

LABORATORY COORDINATOR/ TECHNICIAN

Biology Department, Hendrix College

The Department of Biology at Hendrix College invites applications for a permanent, 10-month, full-time Laboratory Coordinator/Technician to begin as soon as possible. The individual will work closely with the faculty in supervising student assistants in the preparation and breakdown of introductory and some advanced undergraduate biology laboratories. In addition, the person will be responsible for ordering and maintaining inventory of stockroom supplies and specimens, overseeing equipment maintenance, and supervising general maintenance of animal and greenhouse facilities. Candidates should have an M.S. degree in an area of biology or comparable laboratory teaching experience. Salary will be commensurate with education and experience. Review of applications will begin November 1, 2001, and will continue until the position is filled. To apply, send a letter of application addressing your interest in the position and experience, résumé, official graduate and undergraduate transcripts, and have three letters of reference sent to:

Dr. Joseph R. Lombardi, Chair
Department of Biology
Hendrix College
1600 Washington Avenue
Conway, AR 72032

Telephone: 501-450-1378; FAX: 501-450-4547
e-mail: lombardi@hendrix.edu
Website: <http://www.hendrix.edu>

Hendrix is a distinguished liberal arts college with an endowment of \$130 million, which shelters a chapter of Phi Beta Kappa. It is located in Conway, Arkansas, 30 miles from Little Rock at the foothills of the Ozark Mountains. The College, related to the United Methodist Church, has a strong commitment to excellence in teaching liberal arts. *Hendrix is an Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.*

POSTDOCTORAL COORDINATOR Lerner Research Institute Cleveland Clinic Foundation

The Lerner Research Institute (LRI) of the Cleveland Clinic Foundation seeks a Coordinator to facilitate recruitment of POSTDOCTORAL FELLOWS for its Research programs. The LRI is one of America's leading biomedical research institutes with over 110 laboratories in eight departments investigating a wide range of basic and medically applied areas. The LRI is rapidly expanding and constantly seeking new research personnel. Toward this aim, the Coordinator will spearhead recruitment efforts at selected Midwestern universities, organize the annual LRI graduate student symposium, track the success of recruitment efforts by generating appropriate databases, and assist new fellows in relocation to Cleveland, Ohio.

The successful candidate will have strong interpersonal skills and an excellent command of verbal and written English. He/she will be computer literate with at least a basic knowledge of word processing and database use. Demonstrated abilities in managing multiple projects and in problem solving will be advantageous. Candidates must have a Ph.D. (preferably in the life sciences) with at least three years of postdoctoral service. Prior experience with postdoctoral organizations and recruitment as well as the ability to travel will be advantageous.

The Cleveland Clinic Foundation has a long-standing commitment to excellence in basic and applied research. This is an exciting opportunity to participate in the ongoing expansion of its research programs. A competitive salary and attractive benefits package will be provided. Applicants should submit a letter accompanied by curriculum vitae and three letters of recommendation to: Miriam Barton; e-mail: bartonm1@ccf.org; FAX: 216-444-6096.

We are proud to be an Equal Opportunity Employer. Smoke/drug-free environment.

POSITIONS OPEN

ASSISTANT PROFESSOR (tenure track), Department of Biobehavioral Health, College of Health and Human Development, Penn State, University Park, Pennsylvania: The position is a shared appointment with the Environmental Consortium and the Center for Developmental and Health Genetics. Areas of research interest include the genetic basis for variability in the effects of toxin exposure on health. Candidates for the position should have qualifications in toxicogenetics or pharmacogenetics. The specific specialty area is open but examples of areas of interest include animal models of the role of heavy metals in neuropathological conditions such as Alzheimer's disease or individual difference in the response to exposure to estrogen mimetics and their effects on embryonic development and later behaviors. The position involves undergraduate and graduate teaching; the development of a productive program of research; and service to the University, the public, and the profession. The candidate should have a strong interdisciplinary orientation that can complement the expertise of existing faculty and contribute to an integrated approach to understanding genetic and environmental influences and the impact of their interaction on health. The faculty member will be recruited at a rank of Assistant Professor for appointment beginning in the fall of 2002. The faculty member will network with current Penn State faculty in developmental and health genetics or other aspects of genetics as they relate to individual differences in response to environmental toxins through the mechanism of the Penn State Environmental Consortium. Other groups offering collaborative opportunities include the Center for Molecular Toxicology and Carcinogenesis, the Biomaterials Focus Group, and the Intercollege Program in Genetics. Send letter of application describing interests and qualifications, curriculum vitae, two to three samples publications, and the names and addresses of three references. Review of applications will begin immediately and continue until the position is filled. All applications will be held in confidence until finalists are invited to the University Park campus. References will not be contacted without the consent of the candidate. Direct all inquiries to: George P. Vogler, Chair of the Search Committee; Telephone: 814-865-1717; e-mail: gpv1@psu.edu. Send applications to: Chair, BBH Search Committee, Position Number S-11895, The Pennsylvania State University, E315 Health and Human Development Building, University Park, PA 16802. *Affirmative Action/Equal Opportunity Employer.*

VANDERBILT UNIVERSITY

The Department of Psychology, College of Arts and Science, invites applications for a **TENURED or TENURE-TRACK POSITION** in integrative neuroscience. The position is open with respect to rank. Preference will be given to candidates with interests that complement existing programs of research in sensory processing, movement control, and neural plasticity in nonhuman primates. The Department of Psychology is organized into three programmatic areas: clinical science, cognitive science, and neuroscience. Institutional resources include the Vanderbilt Vision Research Center, the Center for Integrative and Cognitive Neuroscience, and the Center for Functional Brain Imaging. Applicants should send curriculum vitae, copies of relevant publications, a letter describing research and teaching interests, and the names of individuals who may serve as references to:

Neuroscience Search Committee
Department of Psychology
Vanderbilt University
111 21st Avenue South
301 Wilson Hall
Nashville, TN 37240

Informal inquiries may be sent via e-mail: jeffrey.d.schall@vanderbilt.edu. Review of applications will begin immediately. To receive full consideration, applications should arrive by December 1, 2001. *Vanderbilt University is an Affirmative Action/Equal Opportunity Employer. We particularly invite applications from women and minority scholars.*

POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSOR BIOLOGICAL PHYSICS

Department of Physics and Astronomy
Vanderbilt University

Applications and nominations are invited for a tenure-track Assistant Professor position in biological physics. There are no restrictions on the subfield of biological physics. The successful candidate will be expected to establish a leading, independent research group and to be highly effective in teaching at the undergraduate and graduate levels. Biophysical research areas within the Department include bioelectric and biomagnetic phenomena; nonlinear dynamics of molecular and cellular systems; cellular instrumentation and control; applications of IR, visible, and UV lasers to biological systems; bioinformatics; and applications of tunable, monochromatic X-rays to medical imaging and biological physics. Candidates can take advantage of the unique opportunities for interdisciplinary research through the W.M. Keck Free Electron Laser Center and collaborations with the Schools of Engineering and Medicine. The successful candidate will be expected to play an important role in a Universitywide initiative in biophysics and bioengineering, which would include the hiring of additional faculty in this and related fields in the near future. In addition, the candidate may benefit from other substantial University initiatives in neuroscience and in nanoscience and nanoengineering. Applications including a résumé should be sent to:

John P. Wikswo
Chair, Biological Physics Search Committee
Vanderbilt University
VU Station B 351807
Nashville, TN 37235-1807
FAX: 615-343-7263
E-mail: john.wikswo@vanderbilt.edu

The candidate should arrange to have three confidential letters of recommendation sent to this address. Review of applications will begin immediately and will continue until the position is filled. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.*

EVOLUTIONARY BIOLOGY, MICROBIOLOGY/BIOINFORMATICS, AND BIOLOGY/EDUCATION

We invite applications for three tenure-track positions in evolutionary biology (ASSISTANT PROFESSOR), microbiology/bioinformatics (ASSISTANT or ASSOCIATE PROFESSOR), and biology with interest in undergraduate learning and/or teacher preparation (ASSISTANT or ASSOCIATE PROFESSOR) for fall 2002 (see website: <http://www.sfsu.edu/~biology>). Ph.D. is required and postdoctorate is preferred. San Francisco State University faculty members are expected to be effective teachers and demonstrate professional achievement and growth through continued research, publications, and/or creative activities. Candidates must have a record of research and willingness to establish a research program including supervision of Master's students. The Department of Biology offers a comprehensive program with 40 faculty with diverse research interests. San Francisco State University, a member of the California State University system, serves a diverse student body of 27,000 undergraduate and graduate students. The mission of the University is to promote scholarship, freedom, human diversity, excellence in instruction, and intellectual accomplishment. Send letter, curriculum vitae, statements of teaching and research interests, three letters of reference, and copies of two representative papers to either: Evolutionary Biology, Microbiology/Bioinformatics or Biology/Education Search, Department of Biology, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132. Review of applications will begin December 3, 2001. *SFSU is an Equal Opportunity/Affirmative Action Employer. Women, ethnic minorities, and persons with disabilities are especially urged to apply.*

TENURE TRACK FACULTY POSITIONS IN BIOCHEMISTRY

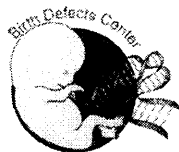
Applications are invited for two tenure-track faculty positions in the Department of Biochemistry at the rank of assistant professor. We are interested in individuals using creative and innovative biochemical approaches to study model eukaryotic systems. Researchers in areas that complement existing department strengths, including regulation of gene expression, protein structure and function and signal transduction, are particularly encouraged to apply. At least one position will be evaluated on the basis of research relevance to functional genomics and proteomics. Purdue is building a strong faculty in genomic and post-genomic biology through the Purdue Genomics Initiative which has committed more than twelve positions to this research area. We anticipate that at least five new faculty positions in the Department of Biochemistry will be filled over the next five years.

Successful candidates are expected to develop a vigorous, extramurally-funded research program and have a commitment to teaching excellence. Our faculty members also are part of a large and vibrant community of life science researchers at Purdue and participate in interdisciplinary graduate training programs in biochemistry and molecular biology, biophysics, genetics, plant biology, and neuroscience. Support facilities for DNA and peptide synthesis and sequence analysis, mass spectroscopy, NMR, X-ray crystallography, image analysis, computation, and transgenic animal work are available. For more information about our department, see www.biochem.purdue.edu. Applicants should have a Ph.D., at least two years of post-doctoral experience or its equivalent, and a strong publication record. To apply, send a *curriculum vitae*, the names and addresses of three individuals who can supply letters of reference, and a two page summary of research interests to:

Biochemistry Search Committee
Department of Biochemistry
Purdue University
West Lafayette, IN 47907-1153, USA.

Electronic applications are welcome and may be sent to: biochem-search@purdue.edu, with a follow-up hard copy sent to the above address. Screening of applicants will begin September 10, 2001 and continue until the positions are filled. Dual career couples are encouraged to apply.

PURDUE UNIVERSITY IS AN AFFIRMATIVE ACTION/
EQUAL OPPORTUNITY EMPLOYER.



Tenure-Track Position Assistant or Associate Professor Developmental Biology

The University of Louisville Birth Defects Center invites applications for tenure-track faculty appointments at the level of Assistant or Associate Professor. Candidates should have a research program in the area of developmental biology, utilizing contemporary molecular and/or genetic approaches that would complement the Center's existing strengths in signal transduction, cardiovascular and craniofacial development, regulation of gene expression and molecular genetics of developmental anomalies. Candidates must have a Ph.D. degree or the equivalent, at least two years of postdoctoral training and a sound research program reflected by a strong publication record. Successful candidates will be expected to establish and maintain an independent and innovative research program that attracts extramural funding. Opportunities exist to collaborate with faculty in numerous Centers and Institutes including the Center for Genetics and Molecular Medicine, among others.

Applicants should send a curriculum vitae, a description of research plans, and the names of three references to:

Dr. Robert Greene, Director
Birth Defects Center
(<http://www.louisville.edu/dental/bdc/bdc.htm>)
University of Louisville Health Sciences Center
ULSD
501 S. Preston Street
Louisville, KY, 40292

The University of Louisville is an EEO/AA Employer. Women and minorities are encouraged to apply.

UNIVERSITY of LOUISVILLE®

The University of Illinois at Urbana-Champaign Multiple Faculty Positions in Molecular and Cellular Biology

As part of a campus-wide initiative in Postgenomic Biology, the School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites applications for faculty positions in:

• Proteomics

Areas of interest include but are not limited to: **Bioinformatics and Computational Biology, Structural Biology, Functional Genomics, and Technology Development.**

• Functional Analysis of Macromolecular Assemblies

Areas of interest include but are not limited to: **Molecular Machines, Membrane Associated Protein Assemblies, Imaging Technologies, Macromolecular Assemblies in Transcriptional Regulation.**

These positions are full-time and tenure track in the departments of Biochemistry, Cell and Structural Biology, Microbiology, and Molecular and Integrative Physiology in the College of Liberal Arts and Sciences and in the College of Medicine. Although we anticipate most of these appointments will be made at the Assistant Professor level, applications for positions at the Associate and Full Professor levels will also be considered and highly qualified scientists at these levels are encouraged to apply. The starting date for these positions is August 2002. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Applicants at all levels will be expected to contribute effectively to undergraduate/graduate teaching.

The University of Illinois at Urbana-Champaign has added significant faculty strength in the biological sciences over the last three years and we anticipate additional hires in these and related areas each year for the next several years. Successful candidates will be provided with excellent laboratory facilities, substantial start-up funds, and a salary commensurate with experience. The University of Illinois at Urbana-Champaign offers a highly interactive, interdisciplinary research environment and state-of-the-art research support facilities. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities and easy access to Chicago and St. Louis. Information concerning the School of Molecular and Cellular Biology at the University of Illinois can be found at <http://www.life.uiuc.edu/mcb/>.

Applicants should submit their application to: **School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, 505 S. Goodwin Ave., Urbana, IL 61801.** An application must include curriculum vitae with a complete list of publications, a concise summary of research interests and future plans. Please specify research area, identified above, in top right corner of cover letter. Also, please arrange to have four letters of recommendation sent to the same address.

Electronic submissions as pdf files are encouraged and should be sent to mcbsearch@life.uiuc.edu. To ensure full consideration, applications should be received by Dec. 3, 2001. Interviews may be conducted before the closing date; however, no hire will be made until after the closing date.

The University of Illinois at Urbana-Champaign is an
Affirmative Action, Equal Opportunity Employer.

POSITIONS OPEN

BIOENGINEERING FACULTY POSITIONS

The University of Illinois at Chicago, Department of Bioengineering, invites applications for full-time, tenure-track positions at the **ASSISTANT, ASSO- CIATE, and FULL PROFESSOR** levels. Desired areas of interest identified in our recent Whitaker Special Opportunity Award are cell and tissue engineering, neural engineering, and bioinformatics. In addition, we have identified a critical need for individuals with expertise in BioMEMS for neural, cell and tissue, and genomic applications. The Department of Bioengineering offers B.S., M.S., and Ph.D. degrees and has a strong emphasis on graduate training and research. The present enrollment is approximately 75 undergraduate and 120 graduate students. Additionally, an M.D./Ph.D. program is offered jointly by the Department of Bioengineering and the College of Medicine. Campus facilities include the Microfabrication Applications Laboratory, the Biomedical Visualization Laboratory, the Biologic Resource Center, complete animal care facilities, and extensive computer resources. UIC is also the home of the NSF National Center for Data Mining. These positions must be filled by the fall of 2002. The candidate is expected to establish a strong research program, develop new courses in bioengineering, and contribute to the development of the new multidisciplinary activities in the Department of Bioengineering. For fullest consideration, please send detailed curriculum vitae; reprints of publications; a statement of research interests; and the names of three references by January 7, 2002, to:

R. L. Magin, Ph.D.

Chairman, Faculty Search Committee

University of Illinois at Chicago

Department of Bioengineering (M/C 063)

851 South Morgan Street, Room 218 SE0

Chicago, IL 60607-7052

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR BIOLOGY

Carroll College, a comprehensive liberal arts college, seeks applicants for a tenure-track position in plant biology/microbiology to begin September 2002. Evidence of excellence in teaching and commitment to undergraduate research (potentially involving our 60-acre wetland field station) are expected. The individual will teach some combination of organismal biology, ecology and evolution, field botany, microbiology, and bioethics. The standard teaching load is two courses per semester and supervision of student research. Ph.D. in biology or related field required. Send letter of application, curriculum vitae, statements of teaching philosophy and research interests, and three letters of reference to: **Dr. Lynne Bernier, Vice President for Academic Affairs, Carroll College, 100 North East Avenue, Waukesha, WI 53186.** Review begins November 1, 2001, continuing until position is filled. Visit our website: <http://www.cc.edu/~pubrel/faculty.html>. *Equal Opportunity Employer.*

Tenure-track **ASSISTANT PROFESSOR** will be hired to teach ecology, environmental biology, and principles of biology and to develop and direct the Environmental Center of Excellence. Ph.D. in environmental biology, ecology, or closely related field and evidence of excellence in teaching required. The successful candidate will be expected to develop an active research program involving undergraduate students. Send application letter, curriculum vitae, and names of three references to: **Dr. Charles Neal, Chair, Biology Department, Box 6931, Radford University, Radford, VA 24142.** Review of applications will begin immediately and continue until position is filled. See website: <http://www.radford.edu/> for additional information. *Radford University is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

POSITIONS OPEN

TENURE-TRACK POSITIONS

Animal Physiology and Developmental Biology

The Biology Department of Hobart and William Smith Colleges invites applications for two tenure-track positions at the level of **ASSISTANT PROFESSOR**.

Animal Physiologist: Individuals with broad experience in animal physiology are encouraged to apply. Responsibilities include teaching a course in general physiology, a course in the applicant's specialty that complements the Department's current offerings, participating in an introductory biology course, and contributing to the Colleges' general curriculum.

Developmental Biologist: Individuals with broad experience in development are encouraged to apply. Responsibilities include teaching a course in development, a course in the applicant's specialty that complements the Department's current offerings, participating in an introductory biology course, and contributing to the Colleges' general curriculum.

Successful candidates will be expected to demonstrate excellence in teaching and establish a productive research program that involves undergraduates. Applicants must have a Ph.D. by the starting date. Hobart College for men and William Smith College for women are coordinate residential colleges that share a campus on Seneca Lake in the Finger Lakes region of New York. For more information, see the departmental website: <http://www.hws.edu/aca/depts/bio/index.html>. Applicants should send curriculum vitae, statements of teaching philosophy and research interests, official transcripts for all degrees received, and three letters of reference to: **Dr. Elizabeth Newell, Biology Department, Hobart and William Smith Colleges, Geneva, NY 14456.** E-mail: newell@hws.edu. Telephone: 315-781-3590; FAX: 315-781-3860. To ensure full consideration, applications should be received by December 7, 2001. *Hobart and William Smith value diversity and especially encourage applications from women and people of color.*

COMPUTATIONAL BIOLOGY

The Department of Biological Sciences at Carnegie Mellon University seeks to fill a **TENURE-TRACK APPOINTMENT** at the intersection of computer science and biology. Successful candidates will have strong credentials in both areas, a Doctoral degree in computer science or a natural science, and be prepared to take advantage of Carnegie Mellon's world-class strength in computer science and strong tradition of interdisciplinary research. Applicants in all areas of computational biology will be considered. Send curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. Robert F. Murphy, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213.** Review of applications will begin on November 1, 2001, and continue until a suitable candidate is recruited. *Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer. Our Department is eager to diversify its faculty; we encourage women and minorities to apply.*

Position available: **ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR**, gastroenterology.

The Digestive Disease and Nutrition Center, Children's Hospital of Buffalo, State University of New York, is seeking a basic research Scientist with a Doctoral degree and at least three years of experience. The successful candidate will run a laboratory studying the molecular basis for GI permeability during acute inflammation. Supervisory skills as well as firsthand knowledge of molecular biology, cell culture, and protein characterization techniques are necessary. This is a chance to establish an independent research area with solid support.

Send curriculum vitae with references to: **Robert D. Baker, M.D., Ph.D.,** or to **Susan S. Baker, M.D., Ph.D., Digestive Disease and Nutrition Center, Children's Hospital of Buffalo, 219 Bryant Street, Buffalo, NY 14222.** E-mail: rbaker@upa.chob.edu or sbaker@upa.chob.edu; Telephone: 716-878-7198. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS

University of Arkansas

The Department of Physics announces two tenure-track faculty positions starting in August 2002. A Ph.D. in physics or related area is required. We are looking for experimentalists or theorists who will enhance our department's research strength in optical and condensed matter physics; establish excellence in teaching both at undergraduate and graduate levels; supervise students in a Ph.D. program; attract external funding; and lead an innovative, high-profile research program. Individuals with experience in research directions related to bio/nano/technology, nanosciences, nanotools, nanodevices, optical materials, or optical communications will be given special consideration. The successful candidates will have an opportunity to be part of our interdisciplinary programs including NSF Materials Research and Science and Engineering Center (MRSEC) and NSF microelectronics-photonics and have access to the High-Density Electronic Center (HDEC) facilities. The University will offer competitive salary and start-up package. Candidates should send an application including a cover letter, curriculum vitae, brief statement of research interests, teaching interests, and names and contact information for at least three letters of reference to: **Chair of the Search Committee, Department of Physics, University of Arkansas, Fayetteville, AR 72701.** Evaluation of candidates will begin on December 1, 2001, and the search will continue until both of the positions are filled. For additional information, please visit our website: <http://www.uark.edu/depts/physics>. *Women and minorities are especially encouraged to apply. The University of Arkansas is an Equal Opportunity/Affirmative Action Institution.*

ASSISTANT PROFESSOR

Medicinal Chemistry

The Department of Medicinal Chemistry/College of Pharmacy at the University of Minnesota invites applications for a tenure-track Assistant Professor position beginning in fall 2002. The Department seeks applicants capable of establishing a nationally recognized, externally funded research program in contemporary medicinal chemistry. Special attention will be given to those applicants with research interests in cancer, viral diseases, and neuroscience. The successful applicant is expected to develop excellence in research and teaching at both the professional and graduate level. A Ph.D. in medicinal chemistry, organic chemistry, or chemical biology is required as are two years of postdoctoral experience. Applicants should send curriculum vitae, a description of a proposed research program, and have three letters of recommendation sent separately to: **Professor Patrick Hanna, Department of Medicinal Chemistry, University of Minnesota, 308 Harvard Street S.E., 8-101 WDH, Minneapolis, MN 55455-0343.** Review of completed applications will begin December 1, 2001, and will continue until the position is filled. Details of the Department can be found at website: <http://www.pharmacy.umn.edu/resgrad/medchem/index.htm>.

The University of Minnesota is an Equal Opportunity Educator and Employer.

FACULTY OPENING

School of Chemical Engineering

Cornell University invites applications for a **TENURE-TRACK POSITION** in the School of Chemical Engineering. Appointment at any rank is possible depending on the candidate's experience and achievement. All research areas will be considered, but emphasis will be placed on work involving biomolecular engineering, microfluidics, and microchemical reactors. Interested candidates can learn more about this position at: website: <http://www.cheme.cornell.edu>.

The College of Engineering is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified, diverse faculty. Women and minorities are encouraged to apply.



The Evergreen State College • Olympia, WA • www.evergreen.edu

The Evergreen State College is a non-traditional, public liberal arts college emphasizing intensive interdisciplinary study and collaborative team teaching throughout the undergraduate curriculum and in three graduate programs.

FACULTY POSITIONS FOR 2002-2003

Mathematics

We seek a broadly trained mathematician with a strong interest in undergraduate teaching for a variety of interdisciplinary, team-taught programs. An advanced degree in mathematics is required, Ph.D. preferred. The applicant should be qualified to teach the usual upper division courses in analysis, topology and algebra. In addition, the applicant should be willing to develop and build a mathematics track for students in computer science. Strength in graph theory and discrete mathematics is required, and a background in number theory and probability theory as well as some programming background is highly desirable. The candidate should be able to teach collaboratively with computer scientists and to work closely with other faculty to develop interdisciplinary programs that integrate mathematics with the natural and social sciences, humanities, and arts. **Review of complete applications starts November 30, 2001 and continues until finalists are selected.**

Molecular Biology/Genetics

We seek a versatile molecular biologist/geneticist with strong interests in undergraduate teaching in interdisciplinary, team-taught programs from the first-year to senior level. The applicant must have a Ph.D., a strong background in molecular biology, and must be oriented toward the use of genetic thinking and genetic analysis in both research and teaching. We seek someone who has the ability and desire to examine the ethical, economic, and societal implications of the advancing work in this field. Ability to work collaboratively with colleagues from other disciplines, including social sciences, humanities, and arts is extremely important. Preferred applicants will have a wide expertise in biology and will be committed to undergraduate research; some preference will be given to applicants whose research uses microbial or eukaryotic systems, as this will facilitate collaboration with current faculty members. The successful applicant will work effectively with other faculty to develop interdisciplinary team-taught programs that integrate science and quantitative reasoning into a broader cultural context. **Review of complete applications starts November 30, 2001 and continues until finalists are selected.**

Organic Chemistry

We seek a versatile organic chemist with strong interests in undergraduate teaching in interdisciplinary, team-taught programs from the first-year to the senior level. The applicant must have a Ph.D., a strong background in organic chemistry, and preferably some expertise in a related field (e.g. biochemistry, environmental chemistry). We seek someone who is committed to undergraduate research, and who is interested in establishing research collaborations with current faculty members. In addition, the successful applicant should demonstrate the ability to

work effectively in teams with other faculty to develop and teach interdisciplinary team-taught programs. Ability to work collaboratively with colleagues from other disciplines, including social sciences, humanities, and arts is extremely important. Evergreen has the following modern equipment available for undergraduate teaching and research use: 96 200 MHz FT NMR, GC/MS, high resolution FT-IR, SEM with x-ray fluorescence probe, ICP spectrometer, UV-VIS diode-array spectrophotometers, and a computer applications laboratory with several graphics work stations. **Review of complete applications starts November 30, 2001 and continues until finalists are selected.**

Philosophy of Science

We seek qualified candidates with strong undergraduate teaching interests for a Regular faculty position in the philosophy of science to teach a variety of interdisciplinary, team-taught programs. The applicant must have a Ph.D. in philosophy of science with significant background in mathematics, physics, chemistry, or laboratory biology at the Bachelor's or Master's level. Regardless of field, we seek candidates with sufficient mathematical background to contribute math-related teaching to team-taught general education offerings. The candidate should be capable of working closely with science faculty in delivering science content as well as integrating the teaching of philosophy of science and ethics into the curriculum. In addition, the candidate should be able to develop programs with both science and non-science faculty aimed at beginning students or other students wishing to develop familiarity with the sciences and their philosophical, historical, ethical and social context. **Review of complete applications starts January 4, 2002 and continues until finalists are selected.**

Terrestrial Vertebrate Natural History

We seek a broadly trained biologist with expertise in the natural history of terrestrial vertebrates and with a strong commitment to undergraduate teaching, Ph.D. required. This position emphasizes field studies, but the successful candidate must also be able to teach in classroom and laboratory settings. Most teaching will be in the context of team-taught interdisciplinary programs, where the successful candidate should be able to contribute disciplinary coverage of general ecology, evolutionary biology, and quantitative methods in addition to vertebrate natural history. The candidate will be expected to teach in both the undergraduate curriculum and the Masters in Environmental Studies Program, and to supervise undergraduate research. The Evergreen State College is located on a 1000-acre wooded campus at the south end of Puget Sound, one hour from Seattle. **Review of complete applications starts November 30, 2001 and continues until finalists are selected.**

The college reserves the right to extend searches or not offer positions advertised. All position offers are contingent on funding. Persons with disabilities can receive accommodations in the hiring process by contacting the Faculty Hiring Coordinator. For complete position descriptions and application procedures go to www.evergreen.edu/facultyhiring, or contact:

Lisa Strange, Faculty Hiring Coordinator, TESC, L2211, Olympia, WA 98505 • Phone: (360) 867-6861 or (360) 866-6834 (TDD) • E-mail: facultyhiring@evergreen.edu

Bryn Mawr College Keck Postdoctoral Research/Teaching Fellowships in Sciences/Mathematics

Bryn Mawr College, with support from the W. M. Keck Foundation, is continuing for academic year 2002-2003 a new program of postdoctoral research/teaching fellowships in science/mathematics. The program will provide support for scientists emerging from graduate programs with a traditional focus on research who want as well to make a strong commitment to teaching and to the mutually reinforcing benefits of teaching and research.

The undergraduate and graduate programs in the sciences and mathematics at Bryn Mawr College have a long history of high achievement in both teaching and research. Keck Postdoctoral Fellows will join this community for terms of three years, during which they will conduct research and teach (the equivalent of one course per semester) with strong faculty mentorship. They will also participate in programs aimed at further developing, for themselves and for the academic community at large, a respected and visible national community of "scientist/teachers."

Fellowship opportunities are available in a wide array of areas within sciences/mathematics. Interested candidates should review a list of faculty sponsors and information about application procedures at <http://serendip.brynmawr.edu/local/keck> (Office of the Provost, 610-526-5055 for additional information). Fellowships will include a stipend of \$40,000 a year, together with annual allowances of \$5,000 for supplies and \$1,000 for travel. Review of applications will begin on December 1, 2001.

Bryn Mawr is a liberal arts college for women with coeducational graduate programs in mathematics, sciences, some humanities and social work. The College supports faculty excellence in both teaching and research, and provides a rigorous education in the context of a diverse and pluralistic scholarly community. Located 11 miles west of Philadelphia, Bryn Mawr participates in consortial programs with the University of Pennsylvania, Haverford and Swarthmore Colleges.

Bryn Mawr College is an Equal Opportunity, Affirmative Action Employer. Minority candidates and women are especially encouraged to apply.



THREE FACULTY POSITIONS Molecular Cell Biology; Molecular Physiology

The Department of Biological Sciences at Ohio University seeks to fill **three full-time, tenure-track positions at the Assistant Professor level** beginning Fall, 2002: two positions in molecular cell biology and one in molecular physiology. We seek candidates who use molecular approaches to address fundamental questions in cell biology and physiology. A doctorate in cell biology, physiology, or a related area, postdoctoral research experience, and evidence of scholarly research achievement are required. Candidates are expected to develop an independent, fundable research program. Strong institutional research support includes a new, 70,000 sq. ft. Life Sciences building, a transgenic mouse facility, DNA sequencing and hybridoma facilities, scanning and transmission electron microscopes, a confocal microscope, NMR and mass spectrometers, a fluorimager, and a fluorescence-activated cell sorter. A successful applicant will teach in the area of his or her specialty; contribute to undergraduate courses, develop a graduate course, and participate in development of an upper level laboratory course. Salary, benefits, and start-up funds are competitive. Further information about these positions can be found at www.biosci.ohiou.edu and www.cas.ohiou.edu.

Please submit a letter of application, curriculum vitae, summaries of research program and teaching interests/philosophy, and the names, postal addresses, e-mail addresses, and phone numbers of three references to **Don Holzschu (Cell Biology applicants) or Ralph DiCaprio (Physiology applicants), Department of Biological Sciences, Ohio University, Irvine Hall, Athens, OH 45701-2979**. Review of applications will begin on December 3, 2001.

Ohio University is an Affirmative Action, Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

POSITIONS OPEN

THREE FACULTY POSITIONS Faculty of Medicine, Department of Pharmacology and Therapeutics University of Manitoba

Applications are invited for one full-time tenure-track and two contingent positions at the **ASSISTANT PROFESSOR** level. Applicants must hold a Ph.D. or equivalent degree with productive research experience. The appointee will be responsible for the establishment of independent research programs in the Department of Pharmacology. The areas of interest required are (1) tenure-track position: clinical pharmacology; (2) contingent position number one: pharmacogenomics, drug metabolism, pharmacokinetics, and/or toxicology; (3) contingent position number two: Associated with the Division of Neurovirology and Neurodegenerative Disorders at the St. Boniface Hospital Research Centre, this position requires strong neurodegenerative disorders experience with modern molecular, neuroanatomical, and/or electrophysiological techniques ([website: http://www.sbr.ca/dnnd](http://www.sbr.ca/dnnd)).

Salaries are negotiable depending upon research experience and qualifications. The Department of Pharmacology and Therapeutics has established research programs in neuro, cardiovascular, hepatic, renal, and clinical pharmacology. More information can be found at [website: http://www.umanitoba/faculties/medicine/units/pharmacology](http://www.umanitoba/faculties/medicine/units/pharmacology).

Please send curriculum vitae, description of research interests, up to five reprints of publications, names and contact information for at least three references, and indicate the position that you are applying for to:

Dr. D. Sitar
Professor and Head
Department of Pharmacology and Therapeutics
University of Manitoba
A220-753 McDermot Avenue
Winnipeg, Manitoba R3E 0T6 Canada

The closing date for applications is November 15, 2001.

The University of Manitoba encourages applications from qualified women and men including members of visible minorities, aboriginal peoples, and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

UNIVERSITY OF COLORADO AT BOULDER

Molecular, Cellular, and Developmental Biology

We seek to fill a tenure-track **ASSISTANT PROFESSORSHIP** to begin in the fall of 2002 with a Molecular Cell Biologist who studies the mechanisms or regulation of the interactions between hosts and pathogens or symbionts. Applicants should send curriculum vitae, representative publications, and a short summary of scientific interests and arrange for evaluative letters from three knowledgeable scientific references to be sent directly to Boulder. Applications will be reviewed beginning November 20, 2001, and will be accepted until the position is filled. Send all materials to: **Pathogenesis or Symbiosis Search, MCD Biology, University of Colorado, Boulder, CO 80309-0347. Website: <http://mcdb.colorado.edu/>.**

The University of Colorado at Boulder is committed to diversity and Equality in Education and Employment.

POSTDOCTORAL POSITIONS

Department of Dermatology at Mount Sinai Medical School has two openings for Postdoctoral Fellows funded by NIH-funded research projects. The candidates should have a Ph.D. degree in molecular biology or related fields and some experience with gene cloning/transfection, DNA sequencing, mutated DNA base assay, cell culture, and fluorescence labeling. Please send curriculum vitae and three letters of reference to: **Huachen Wei, M.D., Ph.D., Associate Professor of Dermatology, Director of Dermatology Research, Box 1047, Mount Sinai Medical Center, New York, NY 10029. E-mail: wei01@doc.mssm.edu.**

POSITIONS OPEN

BIOCHEMICAL/BIOMEDICAL ENGINEERING AT YALE

The Department of Chemical Engineering at Yale University invites applications for an **ASSISTANT/ASSOCIATE PROFESSOR** position in biotechnology starting July 1, 2002. This position is part of the ongoing initiative at Yale University to expand its interdisciplinary bioengineering program involving the School of Medicine as well as various engineering and science departments. Applicants should preferably have at least one degree in chemical engineering and a Ph.D. focused on research in biochemical/biomedical engineering. Candidates are expected to have a strong interest in research and demonstrated expertise in biomedical/biotechnological processes, preferably involving bioseparation. The successful candidate will be expected to teach undergraduate and graduate courses in biomedical engineering, separation processes, biotechnology, and related chemical engineering sciences and develop a creative and dynamic externally funded research program.

Preference will be given to applications received before January 31, 2002. Nominations and applications with a detailed résumé, a description of research and teaching interests, and names and addresses of at least four references should be sent to:

Biochemical Engineering Search Committee
Department of Chemical Engineering
Yale University
P.O. Box 208286
New Haven, CT 06520-8286

Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and members of minorities.

FACULTY POSITION MOLECULAR AND CELLULAR PHARMACOLOGY School of Medicine University of Miami

The Department of Molecular and Cellular Pharmacology at the University of Miami School of Medicine is seeking applications for a **TENURE-TRACK FACULTY POSITION** (rank open). Rank and salary will be commensurate with experience. Excellent laboratory space and start-up funds are available. Candidates must have a Ph.D. and/or M.D. degree and have an established record of research excellence. Applicants from all areas of molecular/cellular biology and biomedical research are welcome. The new faculty member will complement existing research efforts in the Department, which include regulation of cardiac and skeletal muscle function, ion channels, receptors and signal transduction, function and development of the nervous system, and steroid hormone action.

Applicants should send curriculum vitae, description of current and future research interests, and the names and addresses of three references to: **Dr. James D. Potter, Chairman, Department of Molecular and Cellular Pharmacology, University of Miami School of Medicine, P.O. Box 016189, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE

Position is available to study transcription regulation by cellular signaling in an HHMI laboratory at the University of Michigan. We have developed novel approaches for the analysis of transcription factor interactions and nucleoprotein complex architecture (see [website: http://www.umich.edu/~hhmi](http://www.umich.edu/~hhmi)). We offer an interactive work environment in a multidisciplinary research team. Please send your application with curriculum vitae and the names of three references to: **Dr. Tom Kerppola, Howard Hughes Medical Institute, University of Michigan School of Medicine, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. E-mail: kerppola@umich.edu; website: <http://www.hhmi.org/research/investigators/kerppola.html>. HHMI is an Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR POPULATION GENOMICS Department of Molecular and Cell Biology University of Connecticut

The genetics group of the Department of Molecular and Cell Biology is seeking a colleague using modern molecular technologies to study population genomics. We are seeking to fill a tenure-track Assistant/Associate Professor position beginning August 2002 as part of an ongoing expansion. Our diverse and dynamic faculty is dedicated to excellence in both teaching and research with interests in molecular evolution, chromosome structure and function, and applied genetic technologies. The successful candidate should have appropriate postdoctoral experience to develop a productive, independent research program and to contribute to the teaching missions of the Department. The appointee will join the undergraduate and graduate programs of the Department, which lead to a Ph.D., and participate in the new Professional M.S. in applied genomics being developed in collaboration with the Alfred P. Sloan Foundation. Applicants should submit curriculum vitae, a brief statement of research and teaching interests, and arrange to have three letters of recommendation sent. Applications will be reviewed starting December 15, 2001, and will be accepted until the position in population genomics is filled. Send application to: **Dr. Hal Krider, Chair, Population Genomics Search Committee, Department of Molecular and Cell Biology, 354 Mansfield Road, Unit-2131, University of Connecticut, Storrs, CT 06269-2131. Website: <http://www.mcb.uconn.edu>. We encourage applications from underrepresented groups including minorities, women, and people with disabilities. (Search Number 02A148)**

Tenure-track position available in entomology. The Department of Biological Sciences at California State University, Chico, invites applications for an **ASSISTANT PROFESSOR** position beginning fall 2002. Candidates must have a Ph.D., a specialization in entomology, a demonstrated ability or potential to establish an externally funded research program that will involve undergraduate and graduate students, teaching experience at the undergraduate level, and a strong interest in teaching excellence. Preference will be given to candidates with postdoctoral experience; experience with field and laboratory techniques; and additional expertise in such areas as ecology, phylogenetics, invertebrate zoology, and/or agricultural entomology. Responsibilities will include teaching entomology and zoology as well as participation in lower-division majors/nonmajors biology courses and upper-division and/or graduate courses in area of specialization. Applicants should submit a letter of application, curriculum vitae, a statement of teaching philosophy, representative reprints, complete academic transcripts (student copy acceptable), and three letters of reference to: **Dr. Patricia Parker, Chair, Department of Biological Sciences, CSU, Chico, CA 95929-0515, Attention: Entomology. Telephone: 530-898-5356. Review will begin December 1, 2001, and continue until position is filled. Please visit our website: <http://www.csuchico.edu/biol/>.**

As a University that educates students of various ethnic and cultural backgrounds, we seek to create as diverse a pool of candidates as possible. CSU, Chico, is an Equal Opportunity Employer/Affirmative Action/Americans With Disabilities Act Employer. California State University, Chico, employs only individuals lawfully authorized to work in the United States.

Two **ASSISTANT/ASSOCIATE PROFESSOR** positions in biochemistry and molecular biology at FUHS/Chicago Medical School with research interests in macromolecular structure/function. Candidates must have an established research program and/or excellent potential. Details at [website: http://www.finchcms.edu/biochem/Biochem.html](http://www.finchcms.edu/biochem/Biochem.html). Send curriculum vitae and names of three references to: **Dr. K. E. Neet, Chairman, Finch UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.**

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Postdoctoral Training

The CIIT Centers for Health Research in Research Triangle Park, NC is seeking a postdoctoral fellow with Ph.D., D.V.M., or M.D. degrees to join a research program in Endocrine/Reproductive Toxicology.

Endocrine/Reproductive Toxicology

A postdoctoral fellowship is available to study the biological interactions of phytoestrogens and synthetic endocrine active compounds on steroid hormone-regulated developmental processes. The current focus of research is the mechanisms of xenobiotic actions on mammary gland development. A variety of morphological, biochemical, and genomic tools are being utilized in this project. The emphasis of training at the CIIT postdoctoral program is on research skills as well as on career building for young scientists. Candidates should have a recent Ph.D. degree in the biological sciences, knowledge of mammalian physiology, familiarity with molecular biology techniques, and a strong interest in the project. Placement Time Frame: Immediately. Contact: Dr. Li You (919) 558-1387, or at you@ciit.org.

Applications are accepted on a rolling basis. Appointments are typically two-three years in length. CIIT offers a highly competitive salary, 401K savings plan, and benefits package. Additional information about CIIT's research programs and applications can be obtained from our website: <http://www.ciit.org>, or call (919) 558-1402 and refer to the "Postdoctoral Fellow" position.

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Cytokinetics is focused on cytoskeletal pharmacology. Cytoskeletal involvement is apparent in many different diseases, and we're committed to advancing drug discovery & development in this area through the identification and development of small molecules for clinical studies. Our R&D teams are working in several therapeutic areas to capture the broad opportunities presented by targeting the cytoskeleton. Our proprietary biology and cellular informatics platforms allow us to selectively target important cytoskeletal proteins. If you're energetic and passionate about your work, and are a team player who enjoys thinking about cutting-edge science, then come join us. We're a Pre-IPO biotech leader that is defining a new class of therapeutic agents!

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- Research Scientist, In Vivo Pharmacology (Job# PH01-01-SCI)
- Scientist, Cell Biology (Job# CB01-03-SCI)
- Research Associates, Cell Biology (Job# CB01-01-SCI)
- Senior Scientists, Medicinal Chemistry (Job# CH01-09-SCI)
- Research Associates, Medicinal Chemistry (Job# CH01-17-SCI)
- Manager, Compound Libraries (Job# AD01-02-SCI)
- Research Associates, Biochemistry (Job# BC01-03-SCI)
- Scientist, Analytical Chemistry (Job# CH01-14-SCI)
- Research Associates, Analytical Chemistry (Job# CH01-15-SCI)



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EOE

POSITIONS OPEN

TENURE-TRACK POSITIONS CELL/MOLECULAR BIOLOGY University of Toledo

The newly configured Department of Biological Sciences at the University of Toledo is seeking to fill three open-rank tenure-track faculty positions. Candidates should have a research focus in the area of eukaryotic signal transduction to complement existing strengths in transcription regulation, cancer biology, cellular immunology, nematode molecular biology and biochemistry, and plant molecular biology. Facilities include a new \$33 million research complex with state-of-the-art laboratories and outstanding instrumentation centers including the new Center for Molecular Biology. Joint appointments with the Departments of Medicinal and Biological Chemistry and Chemistry will be encouraged. Applicants must have a Ph.D. and postdoctoral experience. Successful candidates will have or will be expected to develop an externally funded research program and will participate in undergraduate and graduate instruction. The Department offers B.S., M.S., and Ph.D. degrees. Salary and setup funds are competitive. Review of applications will begin October 22, 2001, and continue until the positions are filled. The start date for these positions will be August 2002.

Interested candidates should send a letter of application, curriculum vitae, statement of teaching and research interests, and arrange to have three letters of recommendation sent to: **Chair, Faculty Search Committee, Department of Biological Sciences, University of Toledo, Toledo, OH 43606-3390. E-mail: pkomuni@utnet.utoledo.edu.** The University of Toledo is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled/Veterans. Qualified women and minorities are encouraged to apply.

BEHAVIORAL ECOLOGY Tufts University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** position in behavioral ecology to begin in fall 2002. We especially encourage applicants whose research program integrates field research with the use of molecular and/or other laboratory techniques. Applicants' research may be in aquatic or terrestrial systems. Teaching responsibilities include an intermediate lecture course in animal behavior, participation in a team-taught introductory or laboratory course, and an upper-level seminar. The successful candidate is expected to develop an active, externally funded research program involving graduate and undergraduate students. Doctoral degree and a record of research productivity required; postdoctoral experience preferred. Applicants should submit curriculum vitae, three recent publications, separate statements of (1) research interests and plans and (2) teaching experience and plans, and have three letters of reference sent to: **Chair, Behavioral Ecology Search Committee, Department of Biology, Tufts University, Medford, MA 02155.** Review of applications begins December 17, 2001, and will continue until the position is filled. Additional information about the Department is at **website: <http://ase.tufts.edu/biology/>.**

Tufts University is an Affirmative Action/Equal Opportunity Employer. We are committed to increasing the diversity of our faculty, and members of underrepresented groups are strongly encouraged to apply.

BIOMATHEMATICS DIRECTOR AND FACULTY POSITIONS

Biomathematics program at North Carolina State University seeks applications for Director and for **TENURE-TRACK POSITIONS** at all levels. Require Ph.D. in a mathematical or biological science, research program in modeling biological systems, and graduate training in probability or statistics. Duties include research and teaching. Inquiries to **e-mail: gerig@stat.ncsu.edu.** For details and contact information, see **website: <http://www.stat.ncsu.edu/admin/positions.htm#BMA>.**

POSITIONS OPEN

BIOLOGY FACULTY POSITION

The Department of Biology at Hendrix College invites applications for a tenure-track **ASSISTANT PROFESSOR** beginning in August 2002. The person will teach an advanced course in comparative vertebrate anatomy, other courses for biology majors, and possibly general education biology courses. We encourage applicants from varying biological disciplines whose expertise complements those of our current faculty. The successful candidate will have a Ph.D. (or A.B.D.) and demonstrate a strong commitment to teaching excellence in a small, liberal arts college setting and enthusiasm for directing undergraduate research. Application deadline is January 4, 2002. Applications should include a letter addressing the candidate's interest in teaching in a demanding liberal arts environment, a description of teaching philosophy and research interests, curriculum vitae, transcripts of all graduate and undergraduate work, and three letters of recommendation (including the telephone numbers and e-mail addresses of the references) sent to: **Dr. Joseph Lombardi, Chair, Department of Biology, Hendrix College, 1600 Washington Avenue, Conway, AR 72032. E-mail: lombardi@hendrix.edu; website: <http://www.hendrix.edu>.**

Hendrix is a distinguished liberal arts college with an endowment of \$130 million, which shelters a chapter of Phi Beta Kappa. It is located in Conway, Arkansas, 30 miles from Little Rock at the foothills of the Ozark Mountains. The College, related to the United Methodist Church, has a strong commitment to excellence in teaching liberal arts. *Hendrix is an Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.*

PLANT BIOLOGY PROFESSOR

The Department of Biological Sciences at Barnard College seeks an **ASSISTANT PROFESSOR** in plant biology (tenure track) for September 2002 to participate in undergraduate teaching and maintain a funded research program in a liberal arts college that has a strong focus on research and is affiliated with Columbia University. Candidates should be broadly trained and will be expected to teach upper-level lecture and laboratory courses in plant physiology and other courses within their specialty and participate in the introductory biology courses. Research specialty may include any relevant area of plant biology (e.g., physiology, development, or other integrative specialty). Facilities are described at **website: <http://www.barnard.edu/biology/plant.html>.** Ph.D. and a strong commitment to undergraduate teaching required; postdoctoral research and prior teaching experience desirable. Submit curriculum vitae, list of publications, brief statements of research and teaching interests, up to three representative publications, and three letters of recommendation to: **Plant Physiology Search Committee, Department of Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027.** Applications will be reviewed beginning 15 November 2001 but will be accepted until the position is filled. Please **e-mail: ljohnson@barnard.edu** for further information.

Hollins University Biology Department seeks to fill a tenure-track **ASSISTANT PROFESSOR** position. Applicants must be able to teach a one-semester core course in human physiology, major courses in invertebrate biology (complementing concentrations in neuroscience and/or environmental biology), and a course for nonmajors. Applicants should have a Ph.D. and a research program that can involve undergraduates. Send curriculum vitae, statements of teaching philosophy and research interests, and three letters of reference to: **Dr. Renee Godard, Chair, Department of Biology, P.O. Box 9615, Hollins University, Roanoke, VA 24020.** Also send an electronic copy (Word) of curriculum vitae and statements to **e-mail: rgodard@hollins.edu.** Application review begins November 16, 2001.

POSITIONS OPEN

VERTEBRATE BIOLOGY University of Toronto at Scarborough

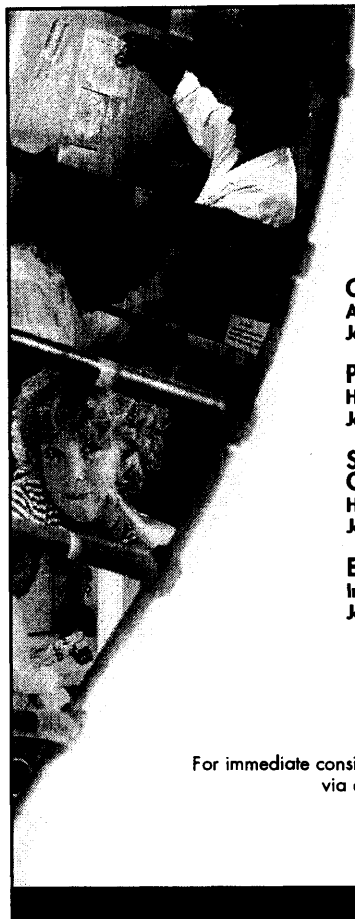
The Division of Life Sciences at the University of Toronto at Scarborough seeks a candidate for a new position in vertebrate biology. This is a tenure-track position at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D. (or equivalent) and preferably some postdoctoral experience. The successful candidate will be provided with significant start-up funds and will be expected to secure external research support and to establish an active research laboratory with graduate students. The primary teaching responsibility will be in human physiology and anatomy and is part of a standard teaching load of one-and-one-half full-course equivalents per year. This and other courses will contribute to a proposed new programme in human biology and to the major and specialist programmes in biological sciences. For information on research and teaching strengths in the Division, please consult the Divisional **website: <http://www.uts.utoronto.ca/~lifesci/index.html>.** Interested applicants should submit complete curriculum vitae (that should include individual statements of research and teaching interests); a copy of recent reprints; and arrange to have three letters of recommendation (including comments on teaching ability, publications, and research potential) sent from the references. All materials should be addressed to: **Professor John H. Youson, Chair, Division of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, Ontario M1A 4A4 Canada.** Closing date for applications is January 30, 2002. Salary will be commensurate with qualifications. The position will be effective July 1, 2002.

The University is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

BEHAVIORAL NEUROSCIENTIST The University of New Mexico School of Medicine

The Department of Neurosciences invites applications for a tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D. or M.D. degree or the equivalent with postdoctoral experience. Applicants should either have an independent research program or have demonstrated strong potential for obtaining extramural funding as evidenced by high-quality publications. Preference will be given to Behavioral Neuroscientists that work with rodents and utilize multiple neurobiological approaches. Research areas of particular interest include learning and memory, traumatic brain injury, substance abuse, or models of emotional behavior. Individuals studying models of other neurologic or neuropsychiatric disorders are also encouraged to apply. For more details on current research interests of the Department of Neurosciences, see **website: <http://www.unm.edu/~neurohsc>.** The selected individual will be expected to participate in graduate and medical school teaching programs.

The UNM Health Sciences Center has enjoyed an unprecedented increase in research funding over the past four years, enabling the development of state-of-the-art research facilities and a significant growth in the number and quality of the research programs. Opportunities exist for collaborations with faculty in other basic science and clinical departments in the Health Sciences Center (**website: <http://hsc.unm.edu/som/index.html>**), the Department of Psychology, the MIND institute, and at nearby Sandia and Los Alamos National Laboratories. Send curriculum vitae, reprints, and names of three references to: **Chair, Behavioral Neuroscientist Search Committee, Department of Neurosciences, University of New Mexico HSC, BMSB 145, Albuquerque, NM 87131-5223.** For best consideration, applications must be received by November 30, 2001; however, position will remain open until filled. *Equal Employment Opportunity/Affirmative Action.*



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St. Jude Children's Research Hospital is known throughout the scientific and biotech community as a prestigious biomedical research center devoted to understanding the molecular, genetic and chemical bases of catastrophic diseases in children, identifying cures for such diseases and promoting their prevention. St. Jude is actively pursuing candidates for the following positions, with the skills and ambition essential to push the limits of science.

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Animal Resources Center
Job Code: SCI-6490VH

Proteomics Analyst II

Hartwell Center for Bioinformatics & Biotechnology
Job Code: SCI-5382VH

Section Leader II - Clinical Application Core Technology

Hartwell Center for Bioinformatics & Biotechnology
Job Code: SCI-5405VH

Education Director

International Outreach
Job Code: SCI-4050VH

Senior Research Technologist

Department of Experimental Hematology
Job Code: SCI-3920SR

Senior Research Technologist

Department of Structural Biology
Job Code: SCI-3137SR

Transduction Specialist I

Human Applications Lab Department
Job Code: SCI-3389SR

Vector Production Specialist

Therapeutics Production & Quality/
Human Applications Laboratory
Job Code: SCI-3921SR

For detailed information on these and other current opportunities with St. Jude, please visit our web site.

www.stjude.org/hr

For immediate consideration, please send resume, indicating position of interest and Job Code, via e-mail: research.careers@stjude.org or fax: 901-495-3123.

Equal Opportunity Employer

Photos courtesy of St. Jude Biomedical Communications



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder

research opportunities

The Office of Naval Research Postdoctoral Fellowship Program

Administered by the American Society for Engineering Education

The Office of Naval Research sponsors a Postdoctoral Fellowship Program, which offers a valuable research experience for those scientists who have received their Ph.D.'s, are U.S. citizens or permanent residents, and are interested in applying themselves in a challenging, creative and progressive scientific environment. The program is designed to significantly increase the involvement of highly trained scientists and engineers from academia and industry in scientific and technical areas of interest and relevance to the Navy. Scientists and engineers at ONR laboratories help shape and execute the Navy's program for meeting the challenge of developing technologies that will support Naval Forces in meeting future operational needs.

ONR WOMEN'S INITIATIVE

There is a recent initiative sponsored by ONR which provides funding to support research efforts of women postdoctoral fellows. It is ONR's hope that this initiative will increase the representation of women at the laboratories, both now and in the future. In order to be eligible for this initiative, you must be a U.S. citizen and complete the application process for a participating host laboratory.

ELIGIBILITY AND APPLICATION

All applicants must be U.S. citizens or Permanent Residents. Non-U.S. citizens must be legal permanent resident and are required to have a "green card" at the time of application. Permanent resident status eligibility for fellowship positions may vary within each laboratory. Before appointment, each participant must present evidence of having received a Ph.D., Sc.D., or other earned research doctoral degree recognized in U.S. academic circles as equivalent to a Ph.D. The applicant must submit a 5-10 page research proposal that relates to a specific research opportunity. Women and minorities are strongly encouraged to apply.

SELECTION OF PARTICIPANTS AND TERMS OF APPOINTMENT

Fellows are competitively selected on the basis of their overall qualifications and technical proposals addressing specific areas defined by the Office of Naval Research.

Fellowships are awarded for one year and may be extended for a second and third year. Applicants are advised to plan their research programs to conform to a one-year appointment. The application deadlines are January 1, April 1, July 1, and October 1.

For application material and detailed information:

Online at: www.asee.org/onr

ONR Postdoctoral Fellowship Program

American Society for Engineering Education

1818 N Street, NW, Suite 600 • Washington, DC 20036 • (202) 331-3525 • t.manicom@asee.org

In accordance with Federal States and regulations, no person on the grounds of race, color, age, sex, national origin or disability shall be excluded from participating in, denied the benefits of, or be subject to discrimination, under any program activity receiving financial assistance from the U.S. NAVY

POSITIONS OPEN

CANCER CENTER DIRECTOR University of Massachusetts

The University of Massachusetts Medical School is searching for a Director for the UMass Cancer Center. We seek a **RESEARCH SCIENTIST** with a commitment to expanding our knowledge of the origin, growth, prevention, and control of neoplastic disease. This person will be responsible for recruiting additional outstanding Investigators to work in the field of cancer research.

Currently, the UMass Cancer Center is a multidisciplinary group of Scientists pursuing research interests in cancer biology. We are committed to a major expansion of this center, joining research programs in genetics, neurosciences, chemical biology, immunology, and infectious diseases in the new state-of-the-art, 365,000-square foot research building that has just opened.

The director should be interested in pursuing his/her own research program, recruiting and directing a group of outstanding Investigators in the field of cancer research (in an entire floor; 33,000 square feet in the new building), and serving as a leader for all cancer-related research activities on the campus.

An attractive start-up package and support through an Endowed Chair is available to the new Director. The ideal candidate is one who can best make use of our collaborative and collegial environment to facilitate interactions with other Scientists working on problems of cell biology, genetics, pathology, physiology, microbiology, biochemistry, and molecular pharmacology as well as with clinicians focused on translational research to provide new treatments for cancer. Established scientists with either Ph.D. or M.D. degrees are encouraged to apply for this leadership role.

Applicants are requested to send curriculum vitae, bibliography, names of references, and statement of research interests to: **Robert Finberg, Interim Director, UMass Cancer Center and Chair, Department of Medicine, University of Massachusetts Medical School, 364 Plantation Street, Room 228, Worcester, MA 01605.**

The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer and applications from individuals of all minority groups are actively encouraged.

RESEARCH ASSOCIATE

The Department of Veterinary Medicine, University of Maryland, College Park, currently seeks a **POSTDOCTORAL RESEARCH ASSOCIATE**. Ph.D. degree in virology/molecular biology required. Successful candidate will conduct research to identify molecular determinants involved in Newcastle disease virus (NDV) virulence and mechanisms by which virulence determinants exert their effect on the natural host. Project will be facilitated by cDNA-based rescue systems for both an avirulent and virulent strain of NDV and excellent Biosafety Level Three animal facilities. Starting salary: \$33,427 per annum with excellent benefits package. Please direct a letter of interest; curriculum vitae; and names, addresses, telephone numbers, and e-mail addresses of three professional references to: **Dr. Siba K. Samal, Department of Veterinary Medicine, University of Maryland, 8075 Greenmead Drive, College Park, MD 20742-3711. E-mail: ss5@umail.umd.edu.** Review of applications will begin on November 1, 2001, and continue until a suitable candidate has been identified.

The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL FELLOWSHIP** at the Johns Hopkins University School of Medicine is available to study mechanisms of chromosome segregation using budding yeast as a model organism and using molecular genetic and genomic analyses. Curriculum vitae and contact for three references is required for consideration. For information or to apply, contact: **Forrest Spencer, 850 Ross, Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: fspencer@jhmi.edu.**

POSITIONS OPEN

DEVELOPMENTAL NEUROBIOLOGIST

The Department of Biology at Occidental College invites applications for a **TENURE-TRACK POSITION** in developmental neurobiology. Rank and salary are subject to qualifications. Applicants should have a strong commitment to educating undergraduates through teaching and research. The successful candidate is expected to develop a rigorous research program in developmental neurobiology using a molecular approach. S/he will teach two of the following classes per year: introductory cell and molecular biology, an intermediate course in either developmental or cell biology, and an upper-level course in neurobiology. The new faculty member is expected to participate regularly in interdisciplinary programs such as Biochemistry, Cognitive Science, the Core Program, Psychobiology, or Women's Studies. Occidental is a nationally ranked, small liberal arts college with excellent research and teaching facilities located in Los Angeles, California, near California Institute of Technology and other research institutions. Occidental is nationally recognized for its broadly diverse student body and faculty and for its outstanding undergraduate research program. For more information on Occidental College, visit our website: <http://www.oxy.edu>. Send curriculum vitae, separate statements of research and teaching interests, copies of significant publications, and have three letters of reference sent to: **Dr. Roberta Pollock, Department of Biology, Occidental College, 1600 Campus Road, Los Angeles, CA 90041.** Review will begin November 26, 2001, and continue until the position is filled. Search Committee representatives will be available at the Society for Neuroscience meeting for additional information. *Occidental is deeply committed to Affirmative Action. Women and minorities are particularly encouraged to apply.*

WORCESTER POLYTECHNIC INSTITUTE Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry at WPI expects to hire a tenure-track **ASSISTANT PROFESSOR** to begin in August 2002. Candidates in any area of chemistry are invited to apply. Preference will be given to those applicants whose field of expertise will enhance our established research programs, particularly in materials, supramolecular chemistry, and molecular design and synthesis. Applicants should have postdoctoral experience. The successful applicant will be expected to develop an externally funded, nationally recognized research program and provide energetic and innovative teaching at the graduate and undergraduate levels. In particular, applicants should be able to teach inorganic chemistry. To apply, please submit a complete résumé, a three-page statement of research plans, a one-page statement of teaching experience and philosophy, and arrange to have three letters of recommendation sent directly to:

**Chair, Faculty Search Committee
Department of Chemistry and Biochemistry
Worcester Polytechnic Institute
100 Institute Road
Worcester, MA 01609-2280**

Review of applications will begin immediately and continue until a suitable candidate is identified. Information on the Department can be found at our website: <http://www.wpi.edu/Academics/Depts/Chemistry/>. *To enrich education through diversity, WPI is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS

Available to study serine proteases involved in blood coagulation, fibrinolysis, and embryonic development using kinetics, site-directed mutagenesis, and X-ray crystallography. Strong training in molecular biology, enzymology, or structural biology is required. Contact: **Enrico Di Cera, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, St. Louis, MO 63110. E-mail: enrico@biochem.wustl.edu.**

POSITIONS OPEN

The Biology Department of Grand Valley State University is seeking a broadly trained **AQUATIC BIOLOGIST (TENURE TRACK)** to join a growing group of faculty with interests in freshwater biology. Responsibilities include coteaching courses in stream ecology and related areas, general education, and freshman biology. Ph.D. in biology or related field required. Preference will be given to those with a background in community or ecosystem ecology and to those with demonstrated success in teaching and research involving undergraduates. Collaboration with the Annis Water Resources Institute at Grand Valley State University is encouraged. Other responsibilities include active scholarly activity, university and community service, and advising of students. Please submit a letter of application, curriculum vitae, separate statements of undergraduate teaching and research goals, unofficial transcripts, and the names and addresses of three individuals who can attest to your success and skills in teaching and research. Review of candidate files will begin November 23, 2001, with applications accepted until the position is filled. Submit materials to: **Dr. James P. Dunn, Chair, Aquatics Biology Search Committee, Department of Biology, Allendale, MI 49401-9403. E-mail: dunnj@gvsu.edu; Telephone: 616-895-3439; website: <http://www.gvsu.edu/biology>.** *Grand Valley State University is an Affirmative Action/Americans With Disabilities Act/Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION DEPARTMENT OF BIOENGINEERING The University of Utah

Applications are invited for an **ASSISTANT/ASSOCIATE PROFESSOR**-level, tenure-track faculty position in biointeractive materials. Candidate must have a Doctorate and a strong physical science and engineering background with a biological emphasis to his/her research. We are seeking candidates with demonstrated expertise in one of the following areas: (1) biodegradable tissue scaffolding or artificial ECM, (2) engineered structural biomaterials, and (3) biomimetic structures and/or devices.

Appointee will be expected to develop significant research programs and teach appropriate undergraduate and graduate courses. See website: <http://www.bioen.utah.edu> for further information.

Complete curriculum vitae, names of three references, and a brief career goals/objectives statement should be sent to: **Dr. V. Hlady, Search Committee Chair, Department of Bioengineering, 50 South Central Campus Drive, Room 2480, Salt Lake City, UT 84112-9202.** The application review will continue until a qualified candidate is selected.

The University of Utah, an Affirmative Action/Equal Opportunity Employer, encourages applications from women and minorities and provides reasonable accommodation to the known disabilities of applicants and employees.

The Roy J. Carver Center for Comparative Genomics at the University of Iowa invites applications for **STAFF SCIENTIST** to function as a Computational Biologist to manage the bioinformatics aspects of the core facility. Responsibilities include developing and maintaining a computer cluster for use by all departmental personnel, training new personnel and students on analysis of genomic data, and may participate in the teaching of classes on bioinformatics. Requires a Ph.D. with extensive practical experience in genomic analysis of large data sets. Peer review publications in comparative genomics or bioinformatics and good verbal and written communication skills are desirable.

Send curriculum vitae, a statement detailing experience with genomic techniques or genomic analysis, and the contact e-mail addresses of three references to: **Dr. Bill Ballard, Biological Sciences, 440 Biology Building, Iowa City, IA 52242-1324. E-mail: bill-ballard@uiowa.edu.** The Department's website is <http://www.biology.uiowa.edu>. Review of applications will begin immediately and will continue until a suitable applicant is found.

The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.



Call for Applications for Team Leaders

RIKEN Research Center for Allergy and Immunology (RCAI)

Outline of RCAI

The Institute of Physical and Chemical Research, known as RIKEN, is one of the foremost research organizations in life science and comprised of the Brain Science Institute, the Center for Developmental Biology, the Genomic Sciences Center, the SNP Research Center, the Plant Science Center and the Bio-Resource Center. RIKEN has established a new institute, the Research Center for Allergy and Immunology, fully supported by the Japanese Government this year.

This Center is to be founded for the purposes of creating a new paradigm in allergy and immunology and developing strategies to solve immunological problems, such as allergic disorders, autoimmune diseases, cancer, Graft-versus-Host diseases, and organ transplantation, by clarifying their basic mechanisms. This is a national project, but it also aims to contribute to the international community. Applications from non-Japanese are welcomed. In order to achieve these purposes we call for applications for the team leaders from throughout the world.

Site of RCAI

A new building will be opened in FY 2003 in Tsurumi-ku, Yokohama, Japan. For about 2 years until the new building will be completed, the laboratories of RIKEN Tsukuba Institute or other available sites will be offered.

Support Laboratories:

Animal resources (capacity of 50,000 mice) and genetic engineering, FACS analysis and sorting with 6-11 colors, DNA chip, transcriptomic/proteomic technology, bioinformatics, & immunological joint ventures

Call for Applications

The RCAI has already appointed 8 team leaders and will invite several team leaders to enhance the project.

1. Research teams and working conditions of team leaders

We invite applications for leaders of several teams. Each team will consist of a team leader, researcher(s), technical staff, and an assistant/ secretary if necessary. Total budget for each team is approximately one million US dollars. A contract of 5-year employment is offered at first and can be prolonged after evaluation. A working contract for every team member will be entered into annually. The team leaders are requested to be full-time RIKEN employees, but it is possible to hold it as an additional position if it is deemed necessary.

2. Application deadline

Thursday, October 25, 2001. All applications must be received by this time. E-mail submissions are acceptable from outside of Japan.

3. Reviewing application document

(1) Curriculum Vitae, including affiliation, position, birthday, title, nationality, present address & phone/fax/e-mail address, research and working history (2) List of publications and patents in the past 10 years (3) Names and addresses of 3 references with phone/fax numbers and e-mail addresses

(4) Proposal (double-spaced in A4 paper)

Title/purpose of your research/ summary/and keywords (1 page).

Overview of proposed research (<4 pages)

Proposed Research (<15 pages): Scientific background of the proposal/Research Projects/References

Budget proposal (Equipment/Salaries, etc)

Current research support/grants

4. Mail addressed to

RIKEN Immunology and Allergy Science Promotion Division 2-1 Hirosawa, Wako, Saitama 351-0198 Japan.

Att: Ms. Noriko Iwasaki/ Mr. Koji Yokoyama

Phone: 81-48-467-8563 FAX: 81-48-467-8091

e-mail: rcai@postman.riken.go.jp

Director

Masaru Taniguchi, MD, PhD

Senior Advisor to the Director

Kimishige Ishizaka, MD, PhD

Core Research Program

Osamu Ohara, PhD

Immunogenomics

Akira Shibuya, MD, PhD

Immune Receptor

Takashi Saito, PhD

Cell Signaling

Tomohiro Kurosaki, MD, PhD

Lymphocyte Differentiation

Haruhiko Koseki, MD, PhD

Developmental Genetics

Yousuke Takahama, PhD

Immune-System Development

Masaru Taniguchi, MD, PhD

Immune Regulation

Toshio Hirano, MD, PhD

Cytokine Signaling

*Several teams are invited.

Creative Research Program

*Several teams are invited.

Support Laboratories

Osamu Ohara, PhD

DNA chip, transcriptomic/proteomic technologies

Haruhiko Koseki, MD, PhD

Animal facilities with knockout and transgenic technologies

*Staff for FACS &

Bioinformatics will be appointed.

Advisory Council

Ken'ichi Arai, IMSUT

Shigetaka Asano, IMSUT

Max D. Cooper, Alabama

Antonio Coutinho, Gulbenkian Inst

Mark I. Greene, Pennsylvania

Sonoko Habu, Tokai

Tasuku Honjo, Kyoto

Tadamitsu Kishimoto, Osaka

Bernard Malissen, CNRS

Diane Mathis, Harvard

Takehiko Sasazuki, Kyushu



The Faculty of Science of the University of Zürich
(Switzerland) invites applications for an:

Assistant Professorship in Experimental Condensed Matter Physics

Applications are invited for a tenure-track Assistant Professor position at the Institute of Physics of the University of Zürich. We are seeking candidates with a promise of significant accomplishments in a forefront area of condensed matter physics.

There are currently in the institute three groups devoted to experimental condensed matter research—in surface physics, magnetism and superconductivity, and the physics of biological systems. It is expected that the new professor will establish an independent research group. She or he will find a very stimulating scientific environment in the Zürich area, with close links to the ETH Zürich and to the Paul Scherrer Institute (PSI), the latter with unique research facilities for neutron scattering, muon-spin rotation spectroscopy and synchrotron radiation. The successful candidate is expected to participate in the teaching duties of the institute and to teach in German at the latest after three years.

Applications including a curriculum vitae, list of publications and a resume with a statement of research interests, should be received by the Dean of the Faculty of Science (Mathematisch-naturwissenschaftliche Fakultät), Prof. Dr. K. Brassel, Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland by December 31, 2001. At the same time, please submit your CV, list of publications and resume in a single text file to jobsnmf@zuv.unizh.ch.

For more information, please consult our website at <http://www.physik.unizh.ch> or contact Prof. Peter Trüöl (truel@physik.unizh.ch, tel. +41 1 257 635 57 77) or Prof. Hugo Keller (keller@physik.unizh.ch, tel. +41 1 635 57 48), Physik-Institut der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland.



McGill
UNIVERSITY

FACULTY OF SCIENCE

The Faculty of Science at McGill University is dedicated to the creation of new knowledge and understanding for the benefit of society. Today's fundamental breakthroughs create the future and we are determined to continue our leading role in the advancement of science. Therefore we extend an invitation to outstanding scientists to join our stimulating community of teacher/researchers.

Building on our strengths, we have been hiring new faculty in almost every unit in the Faculty of Science and we expect this to continue into the foreseeable future. Faculty positions at all levels are being created through internal funding, through the Province of Quebec (FCAR) Programme stratégique de professeurs-chercheurs, through the Government of Canada's Canada Research Chairs program, the Natural Sciences and Engineering Research Council of Canada's University Faculty Award program, and other programs.

The Faculty addresses major areas of intellectual interest including but not limited to: the Environment, Information Sciences, Life Sciences, and Materials Science, in addition to traditional core areas. The Departments in the Faculty are:

Atmospheric & Oceanic Sciences
Biology
Chemistry
The School of Computer Science
Earth & Planetary Sciences

Geography
Mathematics and Statistics
Physics
Psychology
The Redpath Museum

We invite applications from interested candidates with proven records of achievement for these positions. In general, all fields of research in each discipline are welcome. Detailed information on available positions can be obtained on departmental web pages accessible through www.mcgill.ca/science.

Completed applications must contain a full curriculum vitae, separate teaching and research proposals, and three confidential letters of recommendation sent under separate cover by the candidate's references upon the request of the candidate. Applications should be sent to the Chair of the relevant Department(s) at the address on the web site.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to equity in employment.

UNLOCK THE FUTURE. DISCOVER YOURSELF.

As a leading global supplier of life science and high technology research products, Sigma-Aldrich is at the forefront of opportunities in these areas. Our modern research tools play a major role in both the cure of disease and the study of life. We are looking for leaders, and now have exciting opportunities in our St. Louis headquarters for:

TECHNICAL SERVICE SCIENTISTS

You'll provide technical assistance to customers by phone and written correspondence, and do technical writing of product profiles and market research, with an emphasis on our research chemicals and Biotechnology product lines, especially gene expression analysis (high-throughput screening, macro- or microarrays, labeling, hybridization or detection) and proteomics (protein expression, isolation and MALDI analysis). We require a Ph.D. or M.S. with equivalent experience in Molecular Biology, Cellular Biology, Biochemistry or related Life Science; knowledge of lab theory and procedures; the ability to troubleshoot protocols; and excellent interpersonal and communication skills.

- Additional opportunities exist in other Life Science product lines such as PCR, cell culture and cell signaling

To apply for these positions, send your resume to rharris@sial.com.

R&D POSITIONS

R&D Manager in DNA labeling, hybridization, detection.

Will lead a group of scientists developing products, reagents, kits, and methods. Candidates should have a Ph.D. and significant experience in molecular biology. Several years of industrial or related experience as a technical or managerial leader of a scientific team and/or work with DNA microarrays preferred.

R&D PCR Manager

Duties include managing a group of scientists developing reagents and kits for DNA amplification, developing manufacturing methods, and working with novel enzymes, additives, protocols and related items. Position requires proven team management experience; Ph.D. and several years working on product development, methods and processes are expected.

- Additional opportunities are available for top scientists to work in developing new reagents and kits for molecular biology, biochemistry, cell culture and similar areas.

To apply for these opportunities, send your resume, indicating position of interest, to jbutler@sial.com

Human Resources (SCI)
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LEADERSHIP IN LIFE SCIENCE AND HIGH TECHNOLOGY

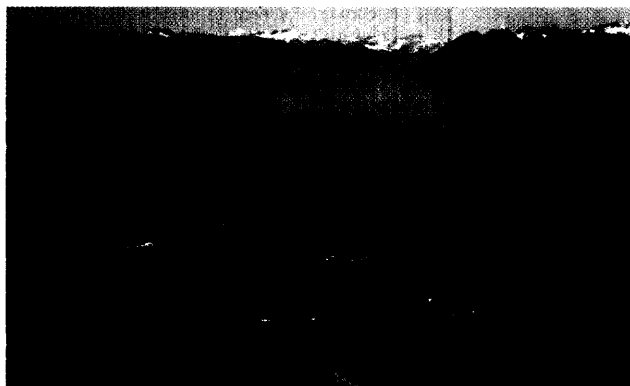
Professor of Polymer Science

at the Swiss Federal Institute of Technology Lausanne (EPFL)



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

The EPFL plans a substantial expansion in engineering sciences, and a major new effort in the life sciences. As part of this, the Materials Science and Engineering Department has an opening at the full professor level. Applications for appointments at the Associate and Assistant Professor (tenure-track) levels will also be considered. We seek outstanding individuals in the area of functional polymers.



In charge of the Polymer Laboratory, the new professor must have the capacity to conceive and lead important projects and to build cooperation with other laboratories and industry, as well as an aptitude for teaching at all academic levels. Substantial start-up resources will be provided. Women candidates are encouraged to apply.

Applications, including CV, publication list, statement of research interests (3 pages or less) and the name of five referees, should be sent by January 15, 2002, to:

Professor J.-A. Manson, Head of Materials Science and Engineering Dpt, Swiss Federal Institute of Technology Lausanne (EPFL), CH-1015 Lausanne, Switzerland.

More information about EPFL and its Materials Science and Engineering Department is available at <http://www.epfl.ch> and <http://dmxwww.epfl.ch>

Cytogeneticist

The University of Texas M. D. Anderson Cancer Center currently has a tenure-track opening for a physician who is board certified by the American Board of Medical Genetics and is licensed or eligible by the Texas State Board of Medical Examiners. This individual will participate in interpretation, reporting and consulting of cytogenetic and molecular cytogenetic testing for the diagnosis of hematological malignancies and solid tumors. Over 10,000 specimens (Conventional and FISH) were performed during the last fiscal year. Many opportunities are available for research and teaching. Rank and salary are commensurate with academic and administrative background.

Qualified candidates are invited to submit their curriculum vitae and three letters of recommendation to: **L. Jeffrey Medeiros, M.D., Department of Hematopathology, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Box 72, Houston, TX 77030. Fax: 713-745-0736. E-mail: jmedeiro@mdanderson.org.**

THE UNIVERSITY OF TEXAS
MD ANDERSON
CANCER CENTER
Making Cancer History™

The University of Texas M. D. Anderson Cancer Center values diversity in its broadest sense. Diversity works at M. D. Anderson.
EEO/AA Smoke-free environment.

THE UNIVERSITY OF IOWA TENURE-TRACK ASSISTANT PROFESSOR

A tenure-track **ASSISTANT PROFESSOR** position is available in the Department of Anesthesia at The University of Iowa. Applicants should have a Ph.D. and/or M.D. and a strong record of publication in **molecular neurobiology**. Preference will be given to those applicants with well-developed interests in the molecular bases of pain, anesthesia or cognition. However, all qualified candidates will receive serious consideration. Evidence of an ability to obtain external funding is also highly desired. The successful candidate will be expected to implement an independent, externally-funded research program, to train doctoral students and postdoctoral fellows, and to teach graduate students, medical students and residents. Substantial start-up funds, a competitive salary and ample laboratory space will be provided.

Interested individuals should send their curriculum vitae, three representative publications, a summary of their research accomplishments and future research plans, and the names of three references to:

Donna L. Hammond, Ph.D.
Professor and Chair of Anesthesia Research
Department of Anesthesia
The University of Iowa
200 Hawkins Road 6JCP
Iowa City, IA 52242

*The University of Iowa is an Affirmative Action
and Equal Opportunity Employer.
Women and minorities are encouraged to apply.*

The Swedish Research Council

invites applications for **three positions intended only for WOMEN** scientists active within areas of the **Engineering Sciences** mainly dominated by male scientists.

The Council's intention in creating these positions is to contribute to the recruitment of researchers and to the renewal of research in Sweden, aiming also to improve the balance between the sexes within the engineering sciences. The programme is aimed primarily at women scientists with a doctorate who have recently established themselves as researchers and have started an active research career. The positions are for three plus three years and will be at appropriate university departments in Sweden to be chosen by the candidate in consultation with the Council and the suggested university. The applicant is kindly requested to state at which university she would like the position. The university decides on tenure. Duties can commence from July 1, 2002.

A curriculum vitae should be appended including a list of publications, a short research plan, a description (no more than six pages long) of scientific achievements and pedagogical skills and a maximum of ten reprints of scientific papers. Other documents to which the applicant wishes to refer could also be included. Four copies of the application and all appendixes and reprints should be submitted.

Applications should reach the The Swedish Research Council, 103 78, Stockholm, Sweden, by November 15, 2001.

Further information can be obtained from **Ms Natalie Lunin** at the Secretariat of VR, **phone no +46 8 546 44 232**, **e-mail-address Natalie.Lunin@vr.se**, **fax no +46 8 546 44 180**.

Howard Hughes Medical Institute and
Department of Human Genetics
University of Chicago



**Postdoctoral Positions
Genomics/proteomics,
Stem Cell Biology and Neurobiology**

Seeking highly motivated individuals to embark on innovative projects in genomics/proteomics, stem cell biology, and neurobiology. Genomics/proteomics projects include: 1) whole-genome analysis of protein functions and protein-protein interactions using innovative proteomics technologies; 2) investigation of genome function and evolution using sophisticated bioinformatics and computational tools. Stem cell biology projects focus on: 1) isolation of factors that maintain pluripotency of stem cells; 2) analysis of chromatin modification during stem cell differentiation; 3) reprogramming cells by nuclear transfer, implantation and molecular manipulations. Neurobiology projects include: 1) analysis of neurodevelopment in mice using a proprietary, powerful gene-trap technology; 2) exploring the genetic basis of human brain evolution; 3) studying the function and developmental potential of neural stem cells; 4) investigating the molecular basis of human and mouse brain degeneration/malformation. For a partial list of lab research interests, see website <http://www.genes.uchicago.edu/home.html> (go to Faculty & Research, then Bruce Lahn).

Candidates should be highly ambitious, with a strong track record of research productivity and publications. Send CV via E-mail attachment to blahn@genetics.uchicago.edu, or FAX (773) 834-0505.

The University of Chicago is an Equal Opportunity/Affirmative Action Employer.



WORLD HEALTH ORGANIZATION (WHO) The International Agency for Research on Cancer (IARC)

has an opening at its Headquarters in Lyons, France, for a

Scientist in the Unit of Molecular Pathology, Vacancy notice RC/01/7

The scientific objective of the Unit is the identification of environmental and hereditary factors associated with the development of human neoplasms and the elucidation of cellular and molecular mechanisms involved in their development.

The successful candidate will work on molecular mechanisms underlying the evolution of human neoplasms (in particular tumours of the brain, lung, and liver) and on the role of viral infections.

The applicant should have a Ph.D. or equivalent in molecular biology/biochemistry, a minimum of 2 years' post-doctoral experience, and a good publication record in a field related to cancer genetics, cancer biology, or molecular pathology. Experience in high-throughput genotyping would be an asset. Very good knowledge of English and working knowledge of French are required.

The grade of the post is P2. The post is time-limited to four years. The initial appointment will be for two years, the first being probationary. The annual salary level is US\$ 38 694 tax free single rate and US\$ 41 253 for a staff member with dependants plus a cost of living element which is currently 13.1 % of the above figures.

Applications should be sent before 9 November 2001 to: Personnel Office, IARC 150, Cours Albert Thomas FR-69372 Lyon Cedex 08, France, Fax +33 4 72 73 83 35, E-mail: personnel@iarc.fr For more information, see IARC home page: <http://www.iarc.fr> under vacancies. When applying, please quote the vacancy notice number and complete the WHO Personal History form, which is obtainable from the home page. Applications from women are encouraged.



NICHOLAS SCHOOL OF THE
ENVIRONMENT AND EARTH SCIENCES
DUKE UNIVERSITY

Doris Duke Chair in Conservation Ecology

The Division of Environmental Sciences and Policy of the Nicholas School of the Environment and Earth Sciences at Duke University announces the newly created Doris Duke Chair in Conservation Ecology. We are seeking an internationally known scholar who conducts research on conservation ecology in human-modified landscapes. In particular, we are seeking candidates with expertise in the spatial patterning and/or temporal dynamics of populations or communities. Specific research interests might include population dynamics, responses to habitat disturbance or fragmentation, spatial analysis or species interactions; we are particularly interested in research that links these processes to the dynamics of landscapes. The individual appointed would be expected to offer a core course in applied conservation ecology and an advanced course in his/her area of interest.

The closing date for applications/nominations for this position is November 15, 2001. Please direct applications or inquiries to:

Dr. James S. Clark
Nicholas School of the Environment and Earth Sciences
Box 90328
Duke University
Durham, NC 27708

Women and minorities are encouraged to apply.

OPPORTUNITIES FOR IMMUNOLOGISTS



Mojave Therapeutics is a well-funded pre-IPO biotechnology company located in Hawthorne, New York that is building a new class of biopharmaceuticals that primes the immune system to combat cancer and infectious diseases. Mojave's core technologies, developed by leading researchers at Memorial Sloan-Kettering Cancer Center, use highly targeted modular antigen delivery systems that allow the rapid development of a broad range of immunotherapeutic products.

Mojave's goal is to develop products that will provide significant advances in the treatment of cancer and infectious diseases for which current treatments are ineffective or have undesirable side effects. The Company's core technologies are based on the use of specific human proteins called "heat shock proteins" or "chaperones" as antigen delivery systems and proprietary enhancements that generate powerful immune responses with no apparent toxicity.

Though Mojave began operations in 1998, it already has its first therapeutic product in clinical trials and is poised for rapid growth in 2001.

Mojave is currently recruiting scientists at the **MS and Ph.D. levels** with experience in **human and/or mouse immunology** to complement our existing team and to drive the development of its breakthrough products. These positions require firm knowledge and hands-on experience with cellular techniques used to measure MHC class I & II responses (CTL assay, flow cytometry, proliferation). Experience in human immunology should include isolating and propagating primary cells from peripheral blood. Mouse immunologists should be familiar with tumor and/or viral disease animal models. In both cases, experience in dendritic cells will be a plus.

To motivate a strong commitment to work in a competitive and dynamic research environment, Mojave offers a competitive compensation and benefits package including pre-IPO options which allow the employees the opportunity to share in the value creation of Mojave and its shares.

If you are seeking a rewarding career in biotechnology product development, and if your achievement/skills can contribute to our success, we invite you to send your resume in confidence to:

Jane Baj
Human Resource Manager
22 Saw Mill River Road
Hawthorne, NY 10532-1533
Fax: (914) 347-0292

E-mail: careers@mojave-therapeutics.com
Webiste: www.mojave-therapeutics.com

INNOVATE!

Ambion, Inc., is looking for talented individuals with strong skills in RNA-related technologies. Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Ambion offers a stimulating scientific environment where scientists have the independence to exercise their creativity.

CURRENT OPENINGS:

In situ Hybridization Job #312 : Requires experience in in-situ hybridization or histology.

RNA Methodology-Job #313 : Requires experience in RNA technologies.

RNA Isolation Job #314 : Requires an interest in working at the interface of molecular biology and chemistry to develop new technologies for RNA isolation.

Molecular Diagnostics Job #315 : Requires experience in developing new assays or nucleic acid isolation.

Pathology-Histology Job #316 : Requires a strong background in the area of histology/pathology or other areas of molecular diagnostics.

Lab/Assay Automation Job #323 : Requires experience with adapting assays and molecular biology procedures to multiple robotic platforms.

Mammalian Cell Culture Job #324 : Requires experience with generating and maintaining large numbers of cell lines and a cell culture facility. M.S. or Ph.D.

Ambion is located in Austin Texas. We offer competitive salaries, benefits, bonus plan and an employee stock option plan. For more information about these and other opportunities or to submit your resume visit:

www.ambion.com/jobs

EOE/AA

Ambion, Inc.
2130 Woodward St.
Austin, TX 78744-1832
fax: (512)651-0201
www.ambion.com/jobs



Creighton University
School of Medicine

Department of Medical Microbiology and Immunology **Faculty Positions in Virology (2) & Immunology (1)**

As part of an ongoing expansion in the basic sciences, Creighton University School of Medicine's Department of Medical Microbiology and Immunology invites applications for three tenure-track positions: **1) Assistant Professor (Virology)**, **2) Associate Professor (Virology)**, and **3) Associate Professor (Immunology)**. The appointees will be expected to conduct vigorous independent research programs, and have an interest and aptitude for teaching graduate students as well as medical, dental, and other allied health profession students. Laboratory space with equipment, start-up funding, and ongoing support will be available. Applicants should have the following qualifications: Ph.D., M.D., or M.D./Ph.D. degrees, postdoctoral training and experience, evidence of significant research accomplishments and scholarly promise. Applicants for the Associate Professor level positions should have NIH-funding and have demonstrated the potential to maintain peer-reviewed funding for their research.

Applicants should send a curriculum vitae, a brief summary of their research plans and teaching interests, and arrange for three letters of recommendation to be sent to **Roderick Nairn, Ph.D., Professor & Chair, Department of Medical Microbiology and Immunology, Creighton University, 2500 California Plaza, Omaha, NE 68178**. Applications will be screened immediately and will continue to be accepted until the position is filled.

*Creighton University is an Affirmative Action/
Equal Opportunity Employer.*



UNIVERSITÉ DE GENÈVE

Faculty Position in PHARMACEUTICAL SCIENCES

The University of Geneva wishes to appoint, effective March 1, 2002, a «Maître d'enseignement et de recherche» (MER), a full-time, tenure-track position (equivalent to Associate Professor or Senior Lecturer) in the faculty of pharmaceutical sciences.

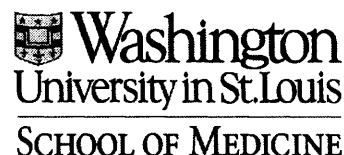
Outstanding candidates with interests in any aspect of modern, cutting-edge, pharmaceutical sciences (including, but not limited to, novel routes and methods of drug delivery, drug targeting, new vectors, gene therapy, biomaterials and/or tissue engineering, and biomedical engineering) are strongly encouraged to apply. The appointee will initiate an independent, creative research programme, and will be expected to attract extramural funding from governmental, foundation and industrial sources. An attractive start-up package will be offered.

The MER will participate in both undergraduate and graduate teaching. While the language of instruction is French, a reasonable grace period will be granted to a non-francophone appointee. Applicants should have graduated in pharmacy, biology, biochemistry, chemistry, bioengineering, or a related discipline, and obtained a doctoral degree in an appropriate field. Postdoctoral and teaching experience is required.

Applications (including a complete CV, reprints of 5 papers considered most significant, and a summary of proposed research directions) should be sent by December 1, 2001 to Prof. Robert Gurny, Laboratoire de pharmacie galénique et de biopharmacie, 30 quai Ernest-Ansermet, CH-1211 Geneva 4, Switzerland (tel. 022-702.61.46, e-mail: Robert.Gurny@pharm.unige.ch).

The University of Geneva is an equal-opportunity employer and particularly welcomes applications from women.

Faculty Position in Molecular Neuroscience



Department of Anatomy and Neurobiology

We seek an individual taking innovative molecular or cellular approaches to fundamental questions in neural development, function, or behavior for a tenure track position as Assistant Professor in the Department of Anatomy and Neurobiology at Washington University School of Medicine (<http://thalamus.wustl.edu>). The department houses 25 active research labs in neurobiology, and it is part of a much larger interdepartmental neuroscience program (<http://thalamus.wustl.edu/Neuroweb>). Excellent shared facilities are available for molecular and cellular neuroscience, including imaging (electron, confocal and two-photon microscopy), and mouse genetics (generation and behavioral analysis of transgenic and knockout lines). Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations.

Send synopsis of research interests and a CV, and names and phone/fax/email of three references to: **Dr. David Van Essen, Anatomy and Neurobiology, Box 8108, Search Committee, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110**, by December 1, 2001, or send as ONE email attachment to susan@pcg.wustl.edu.

AAEOE. Applications from minorities and women are encouraged.

WAYNE STATE UNIVERSITY

Chair of Biological Sciences

The Department of Biological Sciences at Wayne State University is seeking a dynamic individual to serve as departmental chair. The department is housed in the Biological Sciences Building, which was completed in 1991 and contains state-of-the-art research facilities supporting active research programs in molecular biology, genetics, cell biology, neurobiology, developmental biology, ecology and evolution. Research excellence is combined with a strong commitment to graduate and undergraduate education. The successful candidate is expected to join the department in the summer of 2002. All applicants must have a demonstrated record of excellence in funded research and teaching appropriate to an appointment at the full professor level with tenure. There are no restrictions as to the research area of the successful candidate. Information on the department may be found at <http://www.biosci.wayne.edu>.

An application letter and a *curriculum vitae* should be sent to: **Professor Shahriar Mobashery, Biological Sciences Chair Search Committee, Department of Chemistry, Wayne State University, 5101 Cass Avenue, Detroit, MI 48202.**

Wayne State University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

VERTEBRATE SYSTEMATICS/ EVOLUTIONARY BIOLOGY

The Department of Integrative Biology and the Museum of Vertebrate Zoology seek a colleague at the Assistant Professor and Assistant Curator level in the area of Systematics and Evolutionary Biology to serve as Curator of one of the three major collections (Amphibian/Reptiles; Birds; Mammals) in the Museum of Vertebrate Zoology and to develop an outstanding research and teaching program. We expect the candidate to have an intellectual commitment to collection-based research, expertise in one of the three taxonomic groups listed above, the capacity to achieve intellectual leadership in the area of research specialization, and to contribute to interactions among the diverse faculty included in Integrative Biology. Candidates should have a strong commitment to both undergraduate and graduate teaching.

The position is available 1 July, 2002. Applicants should submit the following: a curriculum vitae, a statement of research and teaching objectives, including a vision for the future of natural history museums such as the MVZ, and names and contact details for at least three referees. Applications should be sent to: **Search Committee, Vertebrate Systematics/Evolutionary Biology, Department of Integrative Biology, 3060 VLSB, University of California, Berkeley, CA 94720-3140** and must be received by November 30, 2001. Further information about the department and the MVZ can be found on their respective web sites: www.ib.berkeley.edu/ and www.mip.berkeley.edu/mvz/.

The University of California, Berkeley is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity.



POSTDOCTORAL FELLOW

The USDA, Agricultural Research Service, Beltsville Human Nutrition Research Center, Phytonutrients Laboratory (PL), Beltsville, Maryland is seeking applicants for a POSTDOCTORAL FELLOWSHIP to study mechanisms of action exerted by phytochemicals and identification of biomarkers that allow for determination of biological activity and efficacy of phytochemicals in humans. Projects will emphasize use of state-of-the-art molecular biological technology such as cDNA micro array to address the questions raised.

The candidate must have a recent PhD and a strong background in both molecular biology and mammalian cell biology. Candidates must be U.S. citizens or citizens of a country which is a member of a defense treaty with the U.S. (NATO, SEATO, etc.)

For further information contact: **Dr. Thomas Wang, Phone: 301/504-8459; FAX: 301/504-9456; Email: wang@307.bhnrc.gov**. Submit applications to: **Dr. Thomas Wang, PL, BHNRC, U. S. Department of Agriculture, Beltsville Agricultural Research Center, Room 326, Building 307, BARC-East, Beltsville, MD 20705-2350.**

USDA/ARS is an Equal Opportunity Employer and Provider.

Georgetown University's Edmund A. Walsh School of Foreign Service launches searches to fill two tenured or tenure-track positions in science, technology, and international affairs

The Henry R. Luce Professorship in International Relations and Information Technology

Scholars whose work explores the **impact of the information revolution on world politics** are invited to apply for the newly-created Henry R. Luce Professorship in International Relations and Information Technology. Candidates might be established professors in international relations who are now turning their research attention to the ways in which communications technologies and the digital revolution are altering patterns of political and economic relations. Alternatively, they might come from the ranks of scientists, engineers, or scholars in information, communications, science policy, law, economics or business, seeking to offer a fresh perspective on information technology and foreign policy issues. Academics at all levels are encouraged to apply.

Housed in the Program in Science and Technology in International Affairs in the School of Foreign Service (as described in the next search), the Luce Professor will be charged with encouraging collaboration among the Georgetown faculty from many different academic disciplines in considering the impact of the information age on international relations (visit www.georgetown.edu/sfs).

The Henry R. Luce Professorship in International Relations and Information Technology has been established with a grant to the Georgetown School of Foreign Service from the Henry Luce Foundation of New York.

Assistant Professor in Science, Technology, and International Affairs

Candidates with a Ph.D. who specialize in the study of policy related to **business, information and communications technology** are especially encouraged to apply for this tenure-track position in the School of Foreign Service's Program in Science, Technology, and International Affairs (STIA), although candidates in all the sub-fields listed below will be considered.

The STIA program (see www.georgetown.edu/sfs/programs/stia) offers an undergraduate major to more than 100 students in the Walsh School of Foreign Service. It addresses the intersection of science, technology, business and government in an international context, and is organized into four sub-fields: "Business, Information and Communications," including the impact of innovations in information technology on business, government, and international affairs; "Biotechnology and International Health," including political, economic, cultural and social factors; "Technology and Security," including nuclear proliferation, technology and military strategy, and unconventional security threats; and "Environmental Science, Politics and Economics."

Successful candidates for these positions will be judged on the basis of their record in both teaching and scholarship. Applications will be reviewed beginning December 10, 2001. New applications will be accepted until the position is filled. *Georgetown University is an Equal Opportunity/ Affirmative Action Employer.* Candidates should submit a statement of interest, vitae, and the names of three referees to:

Chair, Luce Professorship and STIA Search Committee
c/o Dr. Peter Dunkley
Associate Dean for Faculty Affairs
Edmund A. Walsh School of Foreign Service
301 ICC Bldg.
Georgetown University
Washington, DC 20057



**Johann Wolfgang Goethe-Universität
Frankfurt am Main**

The position of a junior professorship is opened in the department of Chemical and Pharmaceutical Sciences. The Johann Wolfgang Goethe-University and the nearby Max-Planck-Institute for Biophysics provide superb conditions to conduct research in structural biology. The advertised position is a

Tenure-track professorship (C 3)

The applicant should have a strong background in high-resolution structure determination of membrane proteins using a variety of different spectroscopic techniques. It is expected that the applicant will raise a substantial amount of funding to support the research.

The Johann Wolfgang Goethe-University strives to increase the proportion of women among its faculty and specifically encourages qualified women to apply. Disabled applicants with equal qualifications will be treated preferentially.

Applications with curriculum vitae, copies of diplomas and certificates, a list of publications and independently held courses should be directed within 4 weeks after publication to: **The Dean of Department of Chemical and Pharmaceutical Sciences, Johann Wolfgang Goethe-Universität, Senckenberganlage 31, D-60054 Frankfurt, Germany.**

HIV Drug Resistance Program

**Senior Research Fellow, Research Fellow,
and Postdoctoral Fellow**

Senior Research Fellow, Research Fellow, and Postdoctoral Fellow positions are available immediately in a research program focused on understanding the replication of human immunodeficiency virus and other retroviruses. Research projects encompass broad areas of retroviral genetics, molecular mechanisms of viral replication, and pathogenesis. Specific ongoing projects include mechanisms of retroviral recombination and reverse transcription, mechanisms of retroviral RNA packaging and virus assembly, and interactions between different retroviruses.

Applicants must have a strong background in molecular biology, biochemistry, and/or virology. Applicants to the Research Fellow and Senior Research Fellow positions must have relevant prior postdoctoral experience (salary range: \$33,000–\$76,000, commensurate with experience). The Postdoctoral Fellow salary range is \$32,004–\$51,877, commensurate with experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to:

Dr. Wei-Shau Hu
HIV Drug Resistance Program
NCI-Frederick, P.O. Box B
Frederick, MD 21702
Fax: 301-846-6013, E-mail: whu@ncicrf.gov
Website: www.ncicrf.gov/hivdrp/Hu.html



Equal Opportunity Employer

Postdoctoral positions available – Signal Transduction/Neurobiology
Department of Pharmacology
University of Michigan, Ann Arbor



Post-doctoral positions are available in laboratories in the Pharmacology Department at the University of Michigan Medical School. The University is undergoing a major expansion in the Life Sciences and the Pharmacology Department is in the top ten in the country. The department has a strongly cooperative atmosphere with many collaborations among listed faculty. A formal post-doctoral seminar series provides interactions with post-docs in other Medical School departments and career development information. Ann Arbor is a vibrant, diverse University community with many cultural and recreational opportunities.

Helen Bagdoyhan, PhD

Orexin-induced G protein activation in brain nuclei regulating sleep and breathing.

José A. Esteban, PhD

Regulation of glutamate receptor trafficking in synaptic plasticity.

Stephen K. Fisher, PhD

Inositol polyphosphates and neural signaling.

Margaret E. Gnegy, PhD

Dopamine transporters and amphetamine action.

Ronald W. Holz, MD, PhD

Mechanisms underlying calcium-dependent exocytosis.

Jorge Iñiguez-Lluhi, PhD

Gene regulation by nuclear receptors: activation and synergy.

Lori L. Isom, PhD

Cellular and molecular biology of voltage-gated sodium channels.

Angel W. Lee, MD, PhD

Signal transduction mechanisms in cell growth and survival.

Jonathan Maybaum, PhD

Signaling in response to DNA damage.

Richard R. Neubig, MD, PhD

RGS proteins and G protein signaling mechanisms.

Yoichi Osawa, PhD

Nitric Oxide Synthase regulation by heat shock chaperones.

Jerry Stitzel, PhD

Pharmacogenetic analysis of nicotinic receptors in drug abuse and disease.

Roger K. Sunahara, PhD

Structural basis of receptor-G protein signaling.

John R. Traynor, PhD

Mechanisms of opioid signaling.

Candidates must have less than 3 years of prior post-doctoral experience. New PhD graduates who are U.S. citizens or permanent residents will have priority. For inquiries e-mail: pharmpostdocinfo@umich.edu and see <http://sitemaker.umich.edu/pharm.sigtrans.postdoc>.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.



VASCULAR BIOLOGY
CENTER
MEDICAL COLLEGE
OF GEORGIA

Applications are invited from qualified individuals, with an M.D. and/or Ph.D. degree in a biomedical science, for two tenure-track **ASSISTANT PROFESSOR** positions in the Vascular Biology Center, <http://www.mcg.edu/centers/VBC/index/html>, of the Medical College of Georgia. **Individuals interested in molecular mechanisms regulating angiogenesis/vasculogenesis are particularly encouraged to apply.** The successful applicants will establish an extramurally funded research program, and participate in the teaching and training of pre- and post-doctoral students. Competitive salaries, excellent start-up funds and newly renovated laboratory space will be provided.

Curriculum vitae, statement of research interests and names of three references should be sent by **December 1, 2001**, to: **Dr. Richard C. Venema, Faculty Search Committee Chair, Vascular Biology Center, Medical College of Georgia, Augusta, GA 30912-2500. Tel: 706-721-2576; Fax: 706-721-9799; email: rvenema@mail.mcg.edu.**

The Medical College of Georgia is an EOE/AE. Applications from women and underrepresented minorities are particularly encouraged.



Tularik provides a strong collaborative and stimulating research environment focused on scientific excellence.

In addition to challenging and empowering our employees, we recognize the achievements of individuals and project teams. Tularik offers experienced leadership, employee stock options and a competitive salary and benefits package.

Creating Drugs That Regulate Gene Expression

Scientist/Principal Investigator Obesity/Diabetes Program

Tularik is an established leader in the biopharmaceutical industry, dedicated to the discovery and development of novel therapeutic agents that act through the regulation of gene expression. Our innovative R&D programs offer outstanding opportunities for scientists to conduct cutting-edge research while working as a member of a multidisciplinary team.

As a key member of one of Tularik's exciting drug discovery programs, you will provide expertise and leadership to the Obesity/Diabetes Project team. You will be involved in all aspects of target identification and characterization, assay development, high-throughput screening and drug development. You will use your extensive expertise in molecular biology, biochemistry and assay development to drive the identification and development of novel compounds to treat obesity and diabetes. Qualified candidates will have a Ph.D., postdoctoral training and at least 5 years of relevant experience.

If you are interested in joining our R&D team, please send your CV, complete with Position Code (OB-Sci) by email or mail to one of the addresses shown here:

resume@tularik.com

or

Human Resources

2 Corporate Drive
 South San Francisco CA 94080

EOE

www.tularik.com

THE UNIVERSITY OF IOWA
TENURE-TRACK ASSISTANT PROFESSOR

A tenure-track **ASSISTANT PROFESSOR** position is available in the Department of Anesthesia at The University of Iowa. Applicants should have a Ph.D. and/or M.D. and a strong record of publication in **molecular neurobiology**. Preference will be given to those applicants with well-developed interests in the molecular bases of pain, anesthesia or cognition. However, all qualified candidates will receive serious consideration. Evidence of an ability to obtain external funding is also highly desired. The successful candidate will be expected to implement an independent, externally-funded research program, to train doctoral students and postdoctoral fellows, and to teach graduate students, medical students and residents. Substantial start-up funds, a competitive salary and ample laboratory space will be provided.

Interested individuals should send their curriculum vitae, three representative publications, a summary of their research accomplishments and future research plans, and the names of three references to: **Donna L. Hammond, Ph.D., Professor and Chair of Anesthesia Research, Department of Anesthesia, The University of Iowa, 200 Hawkins Road 6JCP, Iowa City, IA 52242.**

The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITIONS IN THE
DEPARTMENT OF PLANT BIOLOGY
UNIVERSITY OF MINNESOTA,
TWIN CITIES**

The Department of Plant Biology is participating in the University of Minnesota's interdisciplinary initiatives in Molecular and Cellular Biology and in Evolutionary Biology. Over the next several years, we will recruit 13 new scientists who will join a 25-member faculty, 7 of whom are recent hires in the areas of genomics, evolution and plant development. A large and diverse community of developmental biologists at the University includes world-class scientists studying Arabidopsis, worms, flies, zebra fish and mice and provides a supportive environment and access to a full array of expertise. Genomics hires will have a large group of colleagues working on genomics of crops and plant model systems, as well as a growing bioinformatics and microbial genomics community. In addition, a new building, housing scientists working in plant and microbial genomics, is planned for completion in early 2003. All new hires will be considered for inclusion in the Plant Molecular Genetics Institute and/or the Center for Microbial and Plant Genomics allowing a broader base for interaction at the University.

Positions in Plant Developmental Biology
We are seeking broadly trained individuals (two positions) whose research focuses on the mechanisms of plant development using molecular, cellular and/or genetic methods.

**Positions in Genomics, Proteomics
and/or Bioinformatics**

Applications for three positions are sought from scientists using genomic, proteomic and/or bioinformatic methods to study plant, fungal, or algal evolution, cell biology, physiology, molecular biology, plant-microbe interactions, biochemistry, and/or genetics.

For both the Department is accepting applications for tenure-track positions at the level of Assistant Professor. Applications will also be considered from outstanding senior scientists at the Associate/Full Professor level.

Successful candidates will be expected to develop a strong, externally funded research program, contribute to the teaching programs of the Department, and participate in professional service. All candidates must have a Ph.D. or international equivalent and a demonstrated research emphasis in plant developmental biology or genomics. Required background includes post-doctoral training and a strong publication record. Successful candidates will receive a substantial start-up package and a salary commensurate with their experience. Please send a *curriculum vitae*, statement of research and teaching interests, and three letters of recommendation to: **Plant Development or Genomics Search Committee, Department of Plant Biology, University of Minnesota, 220 BioScience Center, 1445 Gortner Ave., St. Paul, MN 55108.** Review of applications will begin on December 3, 2001 and will continue until these positions are filled. For more information concerning the Department and these positions, please consult: <http://biosci.cbs.umn.edu/plantbio/pbio>.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

Unraveling Genetics Information to Cure Disease.

At Hyseq, we're engaged in the research & development of novel biopharmaceutical products from our collection of proprietary genes discovered using our high-throughput screening-by-hybridization platform. This platform provides a significant advantage in discovering novel, rarely-expressed genes, as well as the assembly of one of the most important proprietary databases of full-length human gene sequences. Our continued growth & success has created an excellent opportunity for several motivated professionals to join our team.

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SENIOR SCIENTIST, GENE EXPRESSION & CELL LINE

To lead our efforts in mammalian and/or microbial expression systems, you will need a Ph.D. in molecular biology or protein biochemistry, and 5-8 years of industry experience with recombinant protein expression in mammalian/microbial expression systems. (Job Code:32-2600-SCI)

SCIENTIST, PROTEIN BIOINFORMATICS

Requires a Ph.D. in biology or related field, and relevant experience with protein structure/function, genomics, bioinformatics, and/or programming. (Job Code:17-1000-SCI)

PATENT WRITER/TECHNICAL SPECIALIST

You will coordinate with patent attorneys and research scientists to help draft patent applications. Requires a Ph.D. and strong organizational & written/verbal communication skills. (Job Code: 61-0003-SCI)

To apply, please forward your resume along with a writing sample and references to: Hyseq, Inc., Human Resources, Attn: (Job Code: _____), 670 Almar Avenue, Sunnyvale, CA 94086; FAX: (408) 524-8129; or email (Rich Text Format): mmickey@sbh.com.

EOE

For complete job descriptions, and a listing of all our current openings, visit us at

WWW.HYSEQ.COM

**OHSU Pharmacogenetics/
Pharmacogenomics**

The Department of Physiology and Pharmacology at the Oregon Health and Sciences University invites applications for **tenure-track** faculty positions from individuals with expertise in the molecular analysis of drug action. Preference will be given to candidates for the position of **Assistant Professor** but exceptional candidates for the position of **Associate and Full Professor** will also be considered. We seek individuals using genomic and/or proteomic strategies to identify novel drug targets, understand mechanisms of polymorphic drug response and probe signal transduction processes. The successful candidate will participate in University-wide initiatives in genomics, proteomics and structural biology, and will have the opportunity to participate in clinical trials through the OHSU Clinical Research Center. We seek individuals who will develop an independent research program, contribute to the teaching of Medical Students and Graduate Students and interact with investigators studying drug metabolism, signal transduction, ion channel biology, G-protein coupled receptors and cardiovascular and reproductive biology. OHSU offers a highly interactive research environment and superb opportunities for career development in the spectacular setting of the Pacific Northwest.

Applications or inquiries may be directed to: **David C. Dawson, Ph.D. (dawsonda@ohsu.edu)**, Professor and Chair, Faculty Search (MPP), Department of Physiology and Pharmacology (L334), Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland OR, 97201-3098.

**TENURE TRACK FACULTY POSITION
Department of
Biopharmaceutical Sciences
University of California
San Francisco**

The Department of Biopharmaceutical Sciences invites applications for a tenure track position at the Assistant, Associate or Full Professor level in the field of drug metabolism/pharmacogenetics. Research areas of interest include, but are not limited to, molecular and cell biology of drug metabolizing enzymes and regulatory proteins; studies using transgenic animals to understand the in vivo role of enzymes and regulatory proteins; studies associating genetic variations in drug metabolizing enzymes with clinical drug response or response to environmental agents; and pharmacogenetic or ecogenetic studies which focus on enzymes or regulatory proteins. Responsibilities will include teaching activities of the Department of Biopharmaceutical Sciences and in relevant Ph.D. graduate training programs. Candidates should send applications including curriculum vitae, three letters of reference, and a statement of research plans by November 30, 2001 to the address below. Electronic applications are welcome and can be sent to cwchen@itsa.ucsf.edu, or **Deanna L. Kroetz, Ph.D., Chairperson, Search Committee, The Department of Biopharmaceutical Sciences, Box 0446, University of California San Francisco, San Francisco, California 94143-0446**

*An Affirmative Action/Equal Opportunity
Employer. Women and Minority
Candidates Are Encouraged to Apply*

POSITIONS OPEN

WILDLIFE OR CONSERVATION BIOLOGY University of Toronto at Scarborough

The Division of Life Sciences at the University of Toronto at Scarborough seeks a candidate for a new position in wildlife or conservation biology. This is a tenure-track position at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D. (or equivalent) and preferably some postdoctoral experience. The successful candidate will be provided with significant start-up funds and will be expected to secure external research support and to establish an active research laboratory. Teaching responsibilities will comprise a standard load of one-and-one-half full-course equivalents per year in courses that contribute to proposed new co-op and nonco-op programmes in conservation biology and to the major and specialist programmes in biological sciences. Preference will be given to those whose work integrates ecology, behaviour, or evolution with conservation biology. For information on research and teaching strengths in the Division, please consult the Divisional website: <http://www.utoronto.ca/~lifesci/index.html>. Interested applicants should submit complete curriculum vitae (that should include individual statements of research and teaching interests); a copy of recent reprints; and arrange to have three letters of recommendation (including comments on teaching ability, publications, and research potential) sent from the references. All materials should be addressed to: **Professor John H. Youson, Chair, Division of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, Ontario M1C 1A4 Canada**. Closing date for applications is January 15, 2002. Salary will be commensurate with qualifications. The position will be effective July 1, 2002.

The University is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

Job description: Brown University invites applications for an **ASSISTANT PROFESSOR**. The individual should have research interests in affective neuroscience or motivated behavior (broadly defined) with focus, for example, on emotion, attention, and arousal; the neural basis of psychopathology; behavioral pharmacology; behavioral endocrinology; homeostasis and biorhythms; or learning and memory. The methodological approach is open and could include developmental, physiological, or functional imaging approaches. This is a tenure-track appointment that begins on July 1, 2002, for an initial term of three years. Responsibilities include teaching at the undergraduate and graduate levels, directing undergraduate and graduate research, and developing a strong, experimental research program. Candidates should include curriculum vitae, reprints and preprints of scholarly publications, and a statement of research and teaching interests. The applicant should arrange to have at least three letters of recommendation sent directly to the Search Committee. Applications received by January 15, 2002, will receive full consideration. For further information or to apply, write to: **Search Committee, Department of Psychology, P.O. Box 1853, Brown University, Providence, RI 02912**. Brown University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are strongly encouraged to apply.

RESEARCH SCIENTIST/ POSTDOCTORAL POSITION

A Research Scientist or Postdoctoral position is available at Envirogen's Technology Development group in Lawrenceville, New Jersey. The preferred candidate will have a Ph.D. and experience in microbiology, biodegradation, microbial ecology, or related fields. Salary is commensurate with experience. Send a copy of your curriculum vitae including three references to: **e-mail: doud@envirogen.com; FAX: 609-275-9208**. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

POSITIONS OPEN



THE UNIVERSITY OF CHICAGO

FACULTY POSITIONS Cardiovascular Sciences/Molecular Cardiology The University of Chicago

The Section of Cardiology in the Department of Medicine at the University of Chicago is recruiting new faculty. We are recruiting **TENURE-TRACK FACULTY** in broad areas of cardiovascular research including but not limited to vascular biology, molecular electrophysiology, signal transduction in heart failure, cardiac development, and complex cardiovascular genetics.

The Molecular Cardiology Laboratories are housed in substantial, state-of-the-art laboratory space and a generous start-up package is available. Successful candidates will be expected to conduct a vigorous, independent research program and to participate in teaching and training students and Fellows. Positions are open to Ph.D., M.D., and M.D./Ph.D. candidates. Applicants at all levels will be considered. Opportunities are available for joint appointments with the basic science departments.

Please send current curriculum vitae; statement of research interest; and three letters of reference by December 1, 2001, to:

**Molecular Cardiology Search Committee
c/o Elizabeth McNally, M.D., Ph.D.
Section of Cardiology, The University of Chicago
5841 South Maryland, MC6088
Chicago, IL 60637**

The University of Chicago is an Equal Opportunity/Affirmative Action Employer.

Wildlife management: **ASSISTANT/ASSOCIATE PROFESSOR** of biology and natural resources management. The Biology Department of Grand Valley State University invites applicants for a tenure-track faculty position in wildlife management. Applicants should have a Ph.D. in wildlife management, wildlife ecology, wildlife biology, or closely related natural resource field. We seek candidates with expertise in wildlife management and population biology with additional competence in areas such as quantitative methods, mapping, remote sensing, geographic information systems, or modeling. Teaching responsibilities include a course in wildlife management, introductory courses in natural resources, environmental science or environmental ethics, and other courses that will enhance the Natural Resources Management Program. Excellent communication skills and relevant field experience are required. Preference will be given to applicants with demonstrated success in teaching and research involving undergraduate students. Submit letter of application, curriculum vitae, a statement of teaching philosophy, a statement of research interests, copies of transcripts, and three letters of reference to: **Dr. Neil MacDonald, Chair, Wildlife Management Search Committee, Department of Biology, Grand Valley State University, Allendale, MI 49401-9403. Telephone: 616-895-2697; e-mail: macdonan@gvsu.edu; website: http://www.gvsu.edu/biology**. Review of candidate files will begin November 23, 2001, with applications accepted until the position is filled. Grand Valley State University is an Affirmative Action/American With Disabilities Act/Equal Opportunity Employer.

Seeking applications for a **RESEARCH OFFICER** in the Cardiac Catheterization Laboratory, Division of Cardiology, Brigham and Women's Hospital. Candidate must have six to eight years of postdoctoral experience with advanced research skills in study management and statistical analysis. The individual must possess an M.D. and Ph.D. in epidemiology and have expertise in coronary physiology, angioplasty, intravascular ultrasound, epidemiology, and biostatistics. Salary is commensurate with experience. Send curriculum vitae to: **Peter Libby, Chief, Cardiovascular Medicine, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02155**.

POSITIONS OPEN

BIOORGANIC CHEMISTRY Dartmouth College

Applications are invited for a faculty position at the **ASSISTANT PROFESSOR** level starting July of 2002. The Chemistry Department seeks an individual who will establish a nationally recognized research program in organic chemistry at Dartmouth and who will excel at teaching in our undergraduate and Ph.D. curriculum. The Department has underway a major initiative in the area of structural biology, and preference will be given to individuals who conduct organic synthesis research that will contribute to this initiative. Candidates will be expected to be able to teach introductory and advanced courses in organic chemistry as well as graduate courses in their area of research. Applicants should submit curriculum vitae, a description of their research plans, and a brief statement about their teaching interests. Applicants should also arrange to have three letters of recommendation sent on their behalf. All inquiries and applications will be treated confidentially. Application materials should be sent to: **Chair, Organic Chemist Search Committee, Department of Chemistry, 6128 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564**. The Committee will consider completed applications beginning on November 1, 2001. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR COASTAL MARINE SCIENCE

The Louisiana Universities Marine Consortium (LUMCON) has two tenure-track positions at the Assistant Professor level for Coastal Marine Scientists. Fields of particular interest include coastal physical oceanography, marine microbiology, and biogeochemistry, although candidates in other areas of coastal marine science will be considered. The LUMCON Marine Center ([website: http://www.lumcon.edu](http://www.lumcon.edu)) is located on the coast of the northern Gulf of Mexico approximately 80 miles southwest of New Orleans. Successful candidates are expected to develop strong research programs in coastal science and participate in LUMCON's educational programs. Opportunities exist for participation in collaborative programs with Scientists from nearby universities. The positions are tenure track and carry nine-month salary support annually. Applicants should send a letter of interest with full curriculum vitae and the names and contact information of three references to: **Dr. Michael Dagg, LUMCON, 8124 Highway 56, Chauvin, LA 70344. E-mail: mdagg@lumcon.edu**. Review of applicants will begin on December 3, 2001, and continue until the positions are filled. LUMCON is an Equal Opportunity Employer.

HISTOLOGY CORE DIRECTOR

The Ernest Gallo Clinic and Research Center is a research institute affiliated with the Department of Neurology at the University of California, San Francisco, devoted to the study of the neural basis of alcohol and drug addiction. We are seeking an experienced, highly motivated **NEUROANATOMIST** to direct our Histology core facility. Responsibilities include (1) routine vertebrate and invertebrate tissue stains including histochemistry, immunostaining, and *in situ* hybridization; (2) collaboration with individual Gallo faculty in the development and performance of projects involving neuroanatomical techniques; (3) supervision of technical staff, and (4) training of technicians, graduate students and Postdoctoral Fellows in anatomical techniques. The successful applicant will have a Ph.D., a minimum of four years of relevant experience, and excellent interpersonal/communication skills. We offer an outstanding benefits package, competitive salary, and a stimulating work environment. Please send résumé to **e-mail: hr@egcrc.net** (specify position in subject line) or **FAX: 510-601-7943**. We are an Equal Opportunity Employer/Affirmative Action Employer committed to workforce diversity.

**Scripps Institution of Oceanography
University of California, San Diego**

The Graduate Department of the Scripps Institution of Oceanography seeks a faculty member in Biological Oceanography who uses innovative experimental or observational approaches at sea to understand ecological processes in the ocean. Candidates with expertise in the field of Pelagic Ecology, who actively pursue field investigations and have strong quantitative skills, are particularly encouraged to apply. The successful candidate will be expected to develop a vigorous, extramurally supported research program; to teach, advise, and support graduate students; and to contribute to university and public service. The successful candidate must have a Ph.D. degree or equivalent and a record of accomplishment that demonstrates capabilities as an independent researcher and skillful teacher.

Rank and salary will be commensurate with qualifications and experience based on the UC pay scale. Associate and Full Professorial (tenured) candidates must show evidence of a strong research record; Assistant-level (tenure-track) candidates will be expected to show evidence of their potential through a publication record appropriate to their experience. Applications received by **January 1, 2002** will receive full consideration. Send letter of application including description of research interests, list of publications, résumé of teaching experience, and names/addresses of three referees to: **Chair, Biological Oceanography Search Committee, SIO Graduate Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0208.**

UCSD is an Equal Opportunity/Affirmative Action Employer.

Investigator, Safety Pharmacology

Driving the success of GlaxoSmithKline - the world's leading pharmaceutical organization - is a continual search for innovation. Apart from a research and development capability that sets the benchmark for our industry, we're committed to recruiting and retaining the best and brightest by providing unequalled individual and career development opportunities within our organization. We currently have an opportunity available in our state-of-the-art facility, located in suburban Philadelphia, PA.

In this key role, you will use your cardiovascular physiology/pharmacology expertise as you guide and maintain *in vivo* cardiovascular function tests. You will evaluate the effects of experimental compounds and drug candidates on organ function dynamics in addition to conducting investigative research involving mechanism of drug action and developing new techniques and procedures. Along with a Ph.D. in pharmacology, toxicology, physiology, or a related field, your experience in the design, conduct and reporting of studies in the area of cardiovascular physiology or pharmacology is necessary. Your ability to work independently and your expertise in both the development of *in vivo* models and data analysis/interpretation is essential as you act as a consultant/liaison and monitor for external contract studies in safety pharmacology.

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, visit our Web site: www.gsk.com Indicating Job Code: 01-1701 is essential to search. Principals only, no agencies please.

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**Division of Biology and Medicine
Brown University
Computational Biology
Assistant, Associate or Full Professor**

The Department of Molecular Biology, Cell Biology and Biochemistry at Brown University announces the opening of a tenure track faculty position in Computational Biology.

Qualifications include a Ph.D., M.D. or equivalent degree. Appointment at the Assistant Professor level requires a demonstrated potential for excellence in teaching and research, the latter evidenced by publications in peer-reviewed journals. Appointment at the level of Associate Professor or Professor requires a record of achievement in research that is commensurate with this rank. Award of tenure requires demonstration of excellence in teaching as well as research. The applicant will pursue an independent, externally funded research program emphasizing computational approaches to the study of contemporary biological problems. The successful applicant must be qualified to be an active participant in a new strategic initiative in genetics and genomics also involving Computer Science and Applied Mathematics; in the NIH-funded predoctoral training program in Molecular Biology, Cell Biology and Biochemistry; and in graduate and undergraduate teaching, including the degree programs in biology and computational biology.

The Search Committee will review applications as they are received and will continue to consider applications until the position is filled. Applications must include a curriculum vitae, description of research interests, and at least three letters of reference (five for a senior level appointment) sent under separate cover. Application materials should be sent to: **Dr. David Rand, Genomics/Computational Biology Search Committee Chair, c/o Elaine Butler, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University Box G-J364B, Providence, RI 02912.**

Brown University is an EEO/AA Employer and invites applications from women and minorities.

**Senior Faculty Position
Molecular, Cellular and/or Organismal Imaging
Emory University School of Medicine**

The Winship Cancer Institute and Department of Cell Biology are seeking applications from established investigators who use contemporary imaging technologies to study the basic biology of cancer. A wide range of experimental approaches and model systems will be considered, ranging from molecular to organismal.

Generous resources are available to establish a state-of-the-art imaging facility; with laboratory space in the new Whitehead Research Building scheduled to open this Fall. The primary faculty appointment will be in the Department of Cell Biology (www.emory.edu/CELLBIO) with a joint appointment in the Winship Cancer Institute (www.winshipcancerinstitute.org).

Emory University is experiencing rapid growth in all academic programs, with particular emphasis in the biomedical sciences. The School of Medicine has attracted new leadership throughout all administrative and academic levels, and more than 70 new research faculty are being recruited. Emory is located in a beautiful residential neighborhood of Atlanta, within easy access to major cultural and recreational opportunities.

Please send a CV, including funding history, and most representative publications to **Barry D. Shur, Ph.D., Candler Professor and Chair, Department of Cell Biology, 1648 Pierce Drive, Atlanta, GA 30322.** The search committee will begin reviewing applications in October, and continue until the position is filled.

Emory University is an Equal Opportunity Employer.

POSITIONS OPEN

X-RAY CRYSTALLOGRAPHY/ COMPUTATIONAL BIOLOGY Department of Biochemistry University of Nebraska Lincoln

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** position in the Department of Biochemistry. The Department is interested in applicants who employ X-ray crystallography and/or computational methods to address fundamental problems of macromolecular structure related to function. Potential areas of research may include but are not limited to protein folding/modeling/dynamics, *de novo* protein design, structural bioinformatics, and macromolecular interactions. The successful applicant will be expected to develop an active, independent research program and teach one course per year at the undergraduate or graduate level. The position is within the Institute of Agriculture and Natural Resources and offers a 12-month, state-funded appointment and generous start-up package. The Department is housed in the new, state-of-the-art George W. Beadle Center for Genetics and Biomaterials Research. Ph.D. degree and postdoctoral experience are required. Send curriculum vitae, a succinct statement of research interests, representative reprints, and three letters of reference to: **Dr. Stephen W. Ragsdale, Department of Biochemistry, University of Nebraska Lincoln, P.O. Box 880644, Lincoln, NE 68588-0644. FAX: 402-472-7842.** Review of applications will begin November 12, 2001, and continue until a suitable candidate is found thereafter. Electronic applications will not be accepted. *The University of Nebraska is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans With Disabilities Act. Contact: Dr. Ragsdale; Telephone: 402-472-2943; e-mail: sragsdale1@unl.edu for assistance.*

FACULTY POSITION IN IMMUNOLOGY

The Department of Biology at Indiana University-Purdue University Indianapolis (IUPUI) invites applications for a tenure-track position in immunology at the level of **ASSISTANT PROFESSOR** beginning August 2002. Applicants must have postdoctoral experience and a record of productive research. In addition to establishing a funded research program, the candidate will teach one course per semester. Competitive start-up funds will be provided. Applicants should send curriculum vitae, an outline of research interests, future research plans and teaching interests, copies of recent publications, and three letters of recommendation to: **Search Committee, Department of Biology, IUPUI, 723 West Michigan Street, Indianapolis, IN 46202-5132.** IUPUI is a major research campus in Indiana of approximately 28,000 students. The Department of Biology is located on the same campus as the Indiana University School of Medicine and the Indiana University Cancer Center. Collaboration with faculty in these units is encouraged. **Website: <http://www.biology.iupui.edu/immunology.html>.** Applications will be reviewed on a continuing basis beginning on November 16, 2001, until the position is filled. *IUPUI is an Equal Opportunity/Affirmative Action Employer. Women and minorities are particularly encouraged to apply.*

MEDICAL WRITER

Physicians' Education Resource (PER) is seeking a Medical Writer/Editor to join its team. PER is a medical education company located in Dallas, Texas, specializing in the field of oncology. Successful candidates will be responsible for writing manuscripts from original data, reporting highlights from cancer meetings, creating slide sets for pharmaceutical companies, and editing and rewriting author-submitted manuscripts. This full-time position requires a Ph.D. in a biomedical science. Send résumé and salary requirements to: **Barb Schmaedeke, Human Resources Manager, 3535 Worth Street, Number 4802, Dallas, TX 75246. Confidential FAX: 509-352-2991; e-mail: barbaras@baylordallas.edu.**

POSITIONS OPEN

CHAIR, DEPARTMENT OF BIOLOGY Georgia Southern University

Georgia Southern University invites applications and nominations for the position of Chair of the Department of Biology beginning July 1, 2002. The Department has a strong commitment to teaching and research excellence and provides a broad, integrative biology program leading to B.S. and M.S. degrees (**website: <http://www.bio.gasou.edu/>**). Current research projects including those supported by NIH, NSF, and the USDA involve students at all levels and encompass topics across the biological sciences.

The Chair is expected to provide leadership for the teaching, research, and service missions of the Department. Candidates must have the Ph.D. degree in one of the biological sciences from an accredited institution and have credentials consistent with those of tenured faculty members holding the rank **ASSOCIATE** or **FULL PROFESSOR** at Georgia Southern University. The successful candidate will be a nationally recognized scholar with an established, Investigator-initiated research program. The new Chair will possess strong administrative, leadership, and interpersonal skills; will support and encourage the independent scholarly activities of faculty; and will have demonstrated a commitment to teaching excellence. Ability to work with diverse populations preferred. Send nominations and applications to: **Dr. Dallas D. Rhodes, Biology Chair Search Committee, Georgia Southern University, Box 8149, Statesboro, GA 30460.** A complete application will include a letter addressing the qualifications cited above; curriculum vitae; statement of research interests; and names, addresses, and telephone numbers of five persons who may be contacted as references. Initial review of applications will begin November 12, 2001.

*Georgia is an Open Records state. Georgia Southern University (**website: <http://www.gasou.edu/>**) is an Equal Opportunity/Affirmative Action Institution. Individuals who need reasonable accommodations under the Americans With Disabilities Act in order to participate in the search process should contact the Search Chair.*

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biology at the University of West Florida seeks additional applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR** (biochemistry) with a starting date in August 2002. We are seeking a Biochemist whose expertise is in the areas of protein/molecular biochemistry and who will contribute to the growth and development of the Department's new biotechnology program. The successful candidate will teach biochemistry and advanced courses in related areas of the specialty, will establish an active research program supported by extramural funding and involving undergraduate and graduate students, and will participate in the preparation of prehealth professionals. A Ph.D. is required and postdoctoral and teaching experience is desirable. Salary commensurate with experience. Applicants should send curriculum vitae; a statement of teaching interests and philosophy; a statement of research interests; and three letters of recommendation by November 2, 2001, to: **Venkat Sharma, Chair, Search Committee, Department of Biology, University of West Florida, 11000 University Parkway, Pensacola, FL 32514. E-mail: vsharma@uwf.edu.** Additional information can be found at **website: <http://www.uwf.edu>.** *UWF is an Equal Opportunity Employer and encourages applications from women and other minorities.*

POSTDOCTORAL POSITION

NIH-funded position available for a Ph.D. or M.D. to study the roles of apoptosis and cell cycling in renal disease. Experience in techniques of molecular and cell biology is desirable. Please send curriculum vitae and the names of three references to: **Alice Sheridan, M.D., Massachusetts General Hospital, Renal Unit, 149 West 13th Street, Charlestown, MA 02129. Telephone: 617-724-9688; e-mail: asheridan@partners.org.**

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR Environmental Physiology/Molecular Biology McMaster University

McMaster University, a research-intensive institution and leading centre for biological and biomedical research, invites applications for a tenure-track position at the Assistant or Associate Professor level in the Department of Biology effective July 1, 2002.

Candidates must hold a Ph.D. in biology or a related field, possess at least one year of postdoctoral experience, and have a productive research record. We are seeking applications from Researchers using molecular biology approaches that could interact with the strong group in environmental biology and physiology at McMaster. We encourage applications from individuals working on the molecular biology of fish and/or invertebrate model systems and those who are interested in applying molecular approaches to basic problems in physiology, environmental biology, and toxicology. The successful applicant will be expected to establish and maintain an independent and externally funded research program and contribute to the education of undergraduate and graduate students.

Applicants should submit curriculum vitae, a statement of their research goals, a statement of their teaching interest and experience, three of their most important publications, and should arrange for three letters of recommendation to be sent to: **Dr. Turlough Finan, Professor and Chair, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario L8S 4K1 Canada. Website: <http://www.science.mcmaster.ca/Biology/Dept.html>.**

The closing date for applications is January 11, 2002. (Please refer to the Environmental Physiology/Molecular Biology position in your application).

In accordance with Canadian immigration requirements, Canadian citizens and permanent residents will be considered first for this position. McMaster University is committed to Employment Equity and encourages applications from qualified candidates including members of visible minorities, aboriginal peoples, persons with disabilities, and women.

FELLOWSHIP IN SUBSTANCE ABUSE TREATMENT University of Pennsylvania Treatment Research Center

POSTDOCTORAL POSITIONS are available to investigate molecular, neurophysiological, and clinical processes that contribute to drug addiction and relapse. Opportunities are available to work with Investigators with the following areas of interest. **Dr. Julie Blendy:** mRNA expression and DNA microarray analysis of genetically altered mice, behavioral procedures in mice including those characterizing reinforcing and aversive properties of drugs of abuse, and generation of new mouse models to study addictive behavior. **Dr. Laura L. Peoples:** cortic limbic and accumbal circuits, electrophysiology including chronic extracellular recording procedures in behaving rats, immunohistochemistry, microinjection techniques, and behavioral procedures including those designed to characterize stimulus-controlled behavior and intravenous drug self-administration. Multiple other clinical research and training opportunities are available. Areas of special interest include the study of new treatments for cocaine, opioid, and polysubstance dependence; HIV and/or hepatitis C treatment in substance-dependent populations; treatment evaluation and outcome; and pharmacotherapy trials for substance use disorders. Positions are funded by an NIDA training grant within the Department of Psychiatry at the University of Pennsylvania, School of Medicine (**Charles O'Brien, Principal Investigator**). Candidates must have earned a Ph.D., M.D., or equivalent degree prior to the start of the position. *Applicants must be U.S. citizens or permanent residents. Salary is commensurate with experience. Please send curriculum vitae and names of three references to: Dr. Laura F. McNicholas, M.D., Ph.D., VA Medical Center, University and Woodland Avenues, Philadelphia, PA 19104. Telephone: 215-823-6085; e-mail: mcnicholas_l@mail.trc.upenn.edu.* *Equal Opportunity Employer.*

Tenure Track Faculty Position in Neural Engineering

The Department of Biomedical Engineering at Washington University in St. Louis invites applications for a junior or senior level tenure-track faculty position in the field of Neural Engineering. We are seeking candidates with a PhD or equivalent degree in bioengineering, or a closely related discipline, and who have exceptionally strong expertise and interest in developing and applying engineering principles to the study of neural systems or in applying neurobiologically derived insights to problems in engineering. Areas of specific interest include sensory-motor processing, pattern analysis and recognition, and neuro-imaging.

This position will complement our two other recent hires in the area of motor control, all of which is part of a major expansion of the department supported by a Development from the Whitaker Foundation. A new building for the department is now under construction. The department is closely affiliated with the Institute of Biological and Medical Engineering, a joint enterprise of the Schools of Engineering and Medicine that includes a large and diverse neuroscience community.

Successful applicants at the junior level will be expected to establish an independent research program with extramural funding. Distinguished, senior level applicants with an outstanding record of educational and research accomplishments will be considered for one of the newly endowed chairs in the department. The successful applicant will be expected to establish research collaborations with other engineers and neuroscientists at Washington University. He/she would also be expected to develop and teach biomedical engineering courses at the undergraduate and graduate levels. (See <http://biomed.wustl.edu/>)

Applicants should send curriculum vitae, a statement of their ongoing research program and future goals, and names of at least three references (plus addresses, fax, and email). Applicants may respond by email to susan@pcg.wustl.edu, by sending their application as a ONE FILE attachment or by regular mail to:

Neural Engineering Search Committee
c/o Susan Danker, Box 8108
Department of Anatomy and Neurobiology
660 S. Euclid Ave.
St. Louis, MO 63110

Preference will be given to applications received before January 15, 2002.

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Washington University in St. Louis

Predocutorial and Postdoctoral Training: Unique Opportunity in Quantitative and Computational Toxicology/Physiologically Based Pharmacokinetic/ Pharmacodynamic Modeling

This is an opportunity to broaden your horizons with an unusually diverse interdisciplinary team. If you are a U.S. citizen or permanent resident and meet more than three criteria listed below, please apply for this unique NIEHS-funded training:

- An independent thinker who actively meets challenges
- An aptitude in mathematics and quantitative skills
- Interested in combining mechanistic toxicology with computer/math modeling
- Interested in research work in carcinogenesis, mutagenesis, endocrine disruptors, and neurotoxicology
- B.S. degree (for predoctoral) in one of the basic sciences or engineering
- For postdoctoral candidates, Ph.D. in toxicology, one of the basic sciences, engineering, or M.D. or D.V.M.
- An outstanding molecular biologist interested in developing quantitative skills
- An outstanding engineer interested in biomedical research

We are a team of toxicologists, cancer biologists, engineers, and modelers working together to provide a nurturing and stimulating environment for training students and postdocs for the 21st century. We have your employment prospects in mind. CSU is the best training ground in the world of PBPK/PD Modeling.

For more information on how you can join this team
Contact Dr. Raymond S. H. Yang

E-mail: Raymond.Yang@colostate.edu

Or write to: Dr. Raymond S. H. Yang, Quantitative and
Computational Toxicology, Center for Environmental
Toxicology and Technology, Colorado State University,
Foothills Campus, Fort Collins, CO 80523-1680

CSU is an Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENTS



NATIONAL
CANCER
INSTITUTE

The National Institute of Allergy and Infectious Diseases (NIAID) and National Cancer Institute (NCI) invite the submission of proposals to:

NIH INTER-INSTITUTE PROGRAM FOR THE DEVELOPMENT OF AIDS-RELATED THERAPEUTICS(IIP)

IIP will use its contract resources to facilitate the preclinical development of:

1. Therapies for the treatment of HIV disease, AIDS-associated malignancies, opportunistic infections and tuberculosis associated with AIDS.
2. Microbicide-based prevention strategies for HIV.

IIP does not fund grants. Successful applicants instead will receive products or information generated by NIH contractors to aid the applicant's development of novel therapeutics toward clinical trial.

- The next deadline for receipt of applications is **December 1, 2001**; prior to that date (no later than **November 1**) a Letter of Interest must be submitted to the Inter-Institute Program Coordinator.
- Further information about this program can be found at <http://dtp.nci.nih.gov/>.
- Inquiries can be made to the Inter-Institute Program Coordinator by telephone at 301-496-8720 or by e-mail at iip@dtpax2.ncifcrf.gov.

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR MICROBIOLOGY

A tenure-track Assistant Professor position is now available in the general area of molecular microbiology. Applicants must have several years of postdoctoral experience and excellent communication skills. The person hired will be expected to develop a vigorous, extramurally funded research program and to participate in undergraduate and graduate teaching including prokaryotic molecular biology. Salary, space, start-up funds, and facilities are competitive and the program is well equipped with modern instrumentation. Review of applications will begin on November 12, 2001, and continue until the position is filled. Applicants should forward complete curriculum vitae and research prospectus and arrange to have three letters of recommendation sent to: **Dr. Gerald M. Carlson, Head, Division of Molecular Biology and Biochemistry, School of Biological Sciences, University of Missouri-Kansas City, 5007 Rockhill Road, Kansas City, MO 64110-2499. An Affirmative Action/Equal Opportunity Employer.**

BOTANY/ENVIRONMENTAL PLANT BIOLOGY

The Department of Biology invites applicants for a non-tenure **ASSISTANT PROFESSOR** position beginning in August 2002. The successful candidate (Ph.D./A.B.D.) will have a strong commitment to teaching at the undergraduate level and to the development of a research program for mentoring undergraduates. Teaching assignments may include environmental biology of plants, introductory environmental science, and general biology. Applicants should have expertise in plants at the organismal level and strong research interests in plant conservation. The successful candidate will be able to support the mission of this Catholic liberal arts college in the Benedictine tradition. Send curriculum vitae; a statement of teaching and research interests; and three letters of recommendation postmarked no later than December 24, 2001, to: **Search Committee, Biology Department, Saint Anselm College, 100 Saint Anselm Drive, Manchester, NH 03102-1310.**

POSTDOCTORAL POSITIONS immediately available to study the molecular pathogenesis of bladder cancer and urinary tract infection (*Cancer Res.* **59**: 3512-3517, 1999; *Oncogene* **20**:1973-1980, 2001; *PNAS* **93**:9630-9635, 1996; *PNAS* **95**:8922-8926, 1998; *JBC* **276**:9924-9930, 2001). Self-motivated individuals with strong background in molecular biology and biochemistry are encouraged to apply. Please e-mail or FAX curriculum vitae and three reference letters to: **Dr. Xue-Ru Wu, Department of Urology, New York University School of Medicine, New York, NY 10016. E-mail: xue-ru.wu@med.nyu.edu; FAX: 212-951-5424.**

Two **POSTDOCTORAL POSITIONS** are available to study the molecular mechanisms of ion current remodeling during heart failure and hypertension using confocal imaging, patch clamp electrophysiology, and molecular biology techniques. Candidates should have experience in patch clamp electrophysiology. Send curriculum vitae with contact information for three references to: **Dr. L. Fernando Santana, Department of Physiology and Biophysics, University of Washington, Box 357290, Seattle, WA 98195-7290. E-mail: santana@u.washington.edu. The UW is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Two Postdoctoral positions are available to study the structure and functions of proteins involved in chorion formation in mosquito eggs. Experience in protein expression and characterization is helpful. Salary: \$26,000 to \$35,000 depending upon credentials. Send curriculum vitae and names of references to: **Dr. Jianyong Li, Department of Veterinary Pathobiology, University of Illinois, 2001 South Lincoln Avenue, Urbana, IL 61802. E-mail: jli2@uiuc.edu; Telephone: 217-244-3913.**

POSITIONS OPEN

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SEVERAL POSITIONS AVAILABLE IMMEDIATELY

Applicants with M.D. or M.D./Ph.D. degrees at any current academic rank are sought for **TENURE-TRACK POSITIONS** in medicine as Physician-Scientists or Clinician-Educators. Research interests in genomics/bioinformatics relevant to HIV; molecular genetics of HIV; HIV immunopathogenesis; and clinical pharmacology of antiretrovirals, mycobacteria, or molecular epidemiology are desirable for Physician-Scientists. Expertise in HIV medicine and/or hepatitis C is desirable for Clinician-Educators, who would have integral roles in building programs.

Applicants with a Ph.D. degree are also sought for **RESEARCH ASSISTANT PROFESSOR** (non-tenure-track) or **POSTDOCTORAL FELLOW** positions. These involve studying either ABC transporter modulation of HIV replication (as part of a research program on pathogenesis during antiretroviral therapy) or studying *Helicobacter pylori* pathogenesis (as part of a program on vacuolating toxin, *H. pylori* gene expression and genetic diversity, and bacteria-host interactions). Experience in HIV genetics as well as study of male and female genital tract specimens from HIV-infected patients is required for the HIV position. Skills in HIV molecular biology, phylogenetic analyses, and HIV culture are also required. For the *H. pylori*-related position, experience in microbial pathogenesis, molecular biology, or cell biology is required.

Please send curriculum vitae to: **Vanderbilt University Medical Center, Division of Infectious Disease, A-4201 Medical Center North, Nashville, TN 37232, Attention: Dr. Richard D'Aquila, Division Director. VUMC is an Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITIONS

Department of Neurobiology University of Massachusetts Medical School

The Department of Neurobiology, recently established as part of the unprecedented research expansion at the University of Massachusetts Medical School, has immediate openings for several junior (tenure-track) or senior (tenured) positions. The Department will be the driving force for neuroscience on campus and augment an already existing interdisciplinary program. The laboratories for the Department will be housed on one floor of a state-of-the-art, new 340,000-square-foot research building that will be completed in December 2001.

The Department seeks individuals of outstanding potential who are investigating fundamental mechanisms of brain function. Specific areas of emphasis include but are not limited to molecular, cellular, and developmental neurobiology. The positions are highly competitive with regard to start-up funds, laboratory space, and salary. Rank will be commensurate with ability and experience.

Applicants should send curriculum vitae, statement of research interests, and names and addresses of three references to:

Dr. Steven M. Reppert
Chair, Department of Neurobiology
University of Massachusetts Medical School
55 Lake Avenue North, Room S6-308
Worcester, MA 01655
Website: <http://www.umassmed.edu/neurobiology/>

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POSITIONS OPEN

FISHERIES BIOLOGIST

Fisheries Biologist, tenure-track **ASSISTANT PROFESSOR**, beginning August 2002. The Department of Biological Sciences at the University of North Carolina at Wilmington invites applications from candidates with strong quantitative skills and demonstrated expertise in the fields of population and community modeling including population dynamics, recruitment, and multispecies models. Duties include teaching courses in fisheries biology and biometry, maintaining an active research program, and directing graduate students. The successful candidate is also expected to maintain an active research program in fisheries biology and to direct graduate students. Ph.D. and postdoctoral experience is required. The recently completed UNCW Center for Marine Science provides seawater facilities, offshore and inshore vessels, and laboratory support for marine research. Send curriculum vitae, a brief statement of research and teaching interests, all transcripts, names of three references, and selected reprints to: **Dr. David Webster, Department of Biological Sciences, The University of North Carolina at Wilmington, Wilmington, NC 28403-3297 U.S.A.** Applications received by November 16, 2001, will receive priority consideration; however, applications will be accepted until position is filled.

PLANT TAXONOMIST/CONSERVATION BIOLOGIST, tenure-track **ASSISTANT PROFESSOR**, beginning August 2002. The Department of Biological Sciences at the University of North Carolina at Wilmington is accepting applications from candidates representing the subdisciplines of vascular plant taxonomy and conservation biology. Applicants should be using current methods to investigate the taxonomy, systematics, and conservation biology of vascular plants. Applicants with interests in aspects of the systematics and conservation of rare or endangered plant species are encouraged to apply. Duties include teaching undergraduate and/or graduate courses in plant taxonomy/systematics and contributing to the programs in botany and conservation biology. The successful candidate also is expected to manage the herbarium at UNCW; maintain an active, externally funded research program; and direct graduate student research. Ph.D. and postdoctoral experience are required. Send curriculum vitae, a brief statement of research and teaching interests, all transcripts, names of three references, and selected reprints to: **Dr. Kapraun, Department of Biological Sciences, The University of North Carolina at Wilmington, Wilmington, NC 28403-3297 U.S.A.** Applications received by November 16, 2001, will receive priority consideration; however, applications will be accepted until position is filled. Please see our website: <http://www.uncwil.edu/bio> for additional information. If you have questions, e-mail: webste@uncwil.edu or kapraund@uncwil.edu. UNCW is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

A **POSTDOCTORAL POSITION** is available immediately to work on the positional cloning of insertional mutations in mice that affect the development of the mammalian secondary palate and cause nonsyndromic (isolated) cleft palate. The ultimate goals are to characterize the roles of these genes in palatogenesis and to explore the putative roles of the human homologs in nonsyndromic/isolated cleft palate. Applicants are expected to have a Ph.D. or equivalent degree and research experience in molecular genetics, molecular biology, or developmental genetics.

Please send/e-mail curriculum vitae and the names of three references to:

Eric T. Everett, Ph.D.
Oral-Facial Genetics Division
Department of Oral Facial Development
Indiana University School of Dentistry
1121 West Michigan Street, Room 270
Indianapolis, IN 46202
Telephone: 317-278-1087
e-mail: ceverett@iupui.edu

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ANNOUNCEMENTS



CALL FOR APPLICATIONS

Human and Mouse Genotyping at the Center for Inherited Disease Research (CIDR) (www.cidr.jhmi.edu)

The Center for Inherited Disease Research (CIDR) is an NIH-supported resource providing high throughput genotyping services to research efforts that are attempting to map genetic loci both in humans and in inbred strains of mice. Using DNA samples provided by the principal investigator, CIDR will carry out genome-wide scans using automated fluorescent technology to genotype microsatellite markers. All data will remain the property of the principal investigator and will be returned once the studies at CIDR are complete. The Center has a capacity of about 6 million genotypes (DNA sample x microsatellite marker) per year and a major expansion of capacity is planned. Investigators wishing to utilize marker-assisted breeding strategies to create congenic strains of mice are also eligible to apply to CIDR.

CIDR is a joint effort by twelve participating Institutes at NIH: NCI, NEI, NHGRI, NIA, NICHD, NIDCD, NIDCR, NIDA, NIDDK, NIEHS, NIMH, and NINDS. Investigators whose mapping projects are supported by one of the twelve NIH Institutes participating in CIDR will receive free genotyping. Other investigators are eligible to use CIDR on a fee for service basis.

Access to CIDR is open to all investigators on a competitive basis through peer review. For a more complete description of CIDR, including specific application procedures, visit our Website at <http://www.cidr.jhmi.edu/>. If you would like additional information, contact Dr. Jerry Roberts, Scientific Review Administrator and Executive Director, CIDR Board of Governors (301-402-0838; jerry_roberts@nhgri.nih.gov).

Application Deadlines

November 1
March 1
July 1

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The selected candidate will be responsible for the purification and characterization of recombinant proteins at the 5 - 100 mg scale to support our high throughput screening and structure-based drug discovery efforts in oncology and other therapeutic areas. He/she will also work closely with our Structural Chemistry and Enzymology groups to provide the protein reagents needed for drug discovery directed against novel molecular targets of therapeutic interest, including proteases, kinases, and phosphatases. Qualified candidates will have a Ph.D. in biochemistry or related field with 2+ years of relevant post-doctoral/industry experience. Demonstrated expertise in protein biochemistry, including extensive knowledge of purification techniques evidenced by a strong publication record is required. Must be familiar with ultrafiltration/diafiltration, HPLC, FPLC instrumentation, and standard affinity-based chromatography methods. Knowledge of standard analytical methods for quantitating, characterizing and assessing biochemical activity of recombinant proteins is essential. (Job# 01-034-SCI)



AXYS

Group Leader Protein Expression

In this key role, you will direct the activities of a group of 5-7 scientists who are responsible for providing fermentation and protein production support for internal & partnered programs. Your background must reflect a Ph.D. in biochemistry or related field with 2+ years' post-doctoral experience and 5+ years' industry experience in protein purification & characterization (10 - 100 mg scale). A proven track record in protein purification & characterization is required, as evidenced by a strong publication/patent bibliography. Must have hands-on experience with multiple chromatographic separation techniques, familiarity with FPLC & HPLC instrumentation, and excellent supervisory & written/verbal communication skills. (Job# 00-009-SCI)

Besides attractive salaries and outstanding benefits, we offer the opportunity to be part of a dynamic environment that fosters professional & personal growth. Please forward your resume/cv to: Axys Pharmaceuticals, HR Department, Attn: (Job# _____), 180 Kimball Way, South San Francisco, CA 94080; email: human_resources@axyspharm.com. We look forward to hearing from you. EOE

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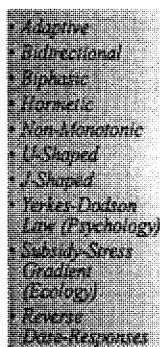
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Deadline for Submission - November 1, 2001

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Please visit our website for more information, Abstract Submission Guidelines and Abstract Submission

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For further information contact

Edward J. Calabrese, Ph.D.
Environmental Health Sciences • Morrill I, N344
University of Massachusetts Amherst, MA 01003
Phone: (413) 545-3164 • FAX: (413) 545-4692
edwardc@schoolph.umass.edu

Cell/Molecular Biologist Tenure-Track Position

The Department of Biomedical Science in the College of Veterinary Medicine at Cornell University invites applications for two tenure track faculty positions at the level of Assistant, Associate or Full Professor. The successful candidates will be expected to develop extramurally funded biomedical research programs and contribute to departmental initiatives in functional mammalian genomics. Applicants must possess a doctoral degree in a biological field (Ph.D., DVM, MD, or equivalent) and postdoctoral training. Expertise in cell biology utilizing functional genomics approaches and genetically modified mouse models is highly desirable. For more information see Departmental and University websites: <http://web.vet.cornell.edu/Public/Biosci.htm> and <http://www.genomics.cornell.edu>.

Interested individuals should send a letter of interest, curriculum vitae, a summary of research plans and the names of three references to:

Dr. Mark S. Roberson

c/o Ms. Sue Hawk

Department of

Biomedical Sciences

T8-004 VRT, Box 17

College of Veterinary Medicine

Cornell University

Ithaca, NY 14853-6401

Applications should be received no later than November 23, 2001. The screening of candidates will begin as applications are received. Rank and salary will be commensurate with the successful candidate's academic credentials and experience.

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<http://www.cornell.edu>
<http://chronicle.com/jobs/profiles/2377.htm>

POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR OF NEUROSCIENCE

The University of Alaska has identified neurosciences as an area of emphasis in the strategic plan for environmental and human health research. To strengthen neuroscience, the University of Alaska Fairbanks and the College of Science, Engineering, and Mathematics invite applications for a tenure-track position in neuroscience. We seek an outstanding individual to take on the role of Co-Director in the growing Alaska Basic Neuroscience Program (ABNP). Individuals with an established record in extramurally funded neuroscience research are invited to apply. The successful candidate will be expected to establish a highly competitive research program in the neurosciences that complements and enhances the Alaska Basic Neuroscience Program including an outreach component to Alaskan minorities. The ABNP incorporates interdisciplinary approaches and spans the spectrum from behavioral to cellular and molecular aspects. Strong collaborative ties are maintained with other Investigators in the contiguous United States. An attractive recruitment package will be provided as research support in addition to the availability of several excellent core facilities such as the optical core with the confocal microscope. Teaching responsibilities at the senior/graduate level will be minimal and based on the interests and expertise of the successful applicant and the needs of the neuroscience research.

Applicants should submit a signed UAF application, curriculum vitae, a letter stating present and future research interests and ideas for development of the ABNP, bibliography, and the letters of at least three references. Reply to: **Dr. Larry Duffy, Chair, Neuroscience Search, Department of Chemistry and Biochemistry, University of Alaska Fairbanks, 194 Natural Sciences Facility, P.O. Box 756160, Fairbanks, AK 99775-6160. Telephone: 907-474-7525; FAX: 907-474-5640; e-mail: fychem@uaf.edu.** To ensure full consideration, applications should be received by December 10, 2001.

The University of Alaska is an Equal Opportunity/Affirmative Action Employer and Educational Institution. Women and minorities are strongly encouraged to apply.

ASSOCIATE/FULL PROFESSOR OF BIOLOGY, Department of Biology, North Georgia College and State University, Dahlonega, Georgia. Harry B. Forester Eminent Scholar Chair; full-time, tenure track, to begin August 1, 2002. Teach courses in one or more of the following: toxicology, immunology, limnology, cell biology, molecular biology, and other courses in area of expertise. Establish and coordinate undergraduate research and internship programs. Advise students. Candidates must have a Ph.D. or equivalent in biology or a related field and demonstrate a national record of scholarship. Review of applications will begin on November 16, 2001, and continue until the position is filled. For detailed information about this position including the application procedure, please access our website: <http://www.ngcsu.edu/admnsrv/hr/positions.htm>.

North Georgia College and State University is an Affirmative Action/Equal Opportunity Employer and a tobacco-free workplace.

BOTANIST. Hillsdale College, an independent liberal arts college, seeks broadly trained Botanist dedicated to undergraduate teaching and research. Located in south central Michigan, Hillsdale College owns Slayton Arboretum (50 acres) and Hillsdale College Biological Station (Rockwell Lake: 670 acres). Must demonstrate effective design and teaching of botany classes and an ability to supervise research that utilizes the facilities. **TENURE-TRACK POSITION** with Ph.D. expected. Starting date: August 2002. For detailed job description, see website: <http://www.hillsdale.edu/academics/bio>. Send cover letter; curriculum vitae; three letters of recommendation; a statement of educational philosophy/methods; and a statement of research interests on or before December 17, 2001, to: **Dr. Robert Miller, Biology Department Chair, Hillsdale College, Hillsdale, MI 49242. E-mail: bob.miller@hillsdale.edu; Telephone: 517-607-2393.**

POSITIONS OPEN

PHYTOCHEMIST

Southern Illinois University Carbondale

The Department of Plant Biology (website: <http://www.science.siu.edu/plant-biology>) invites applications for a tenure-track **ASSISTANT PROFESSOR** position in the area of natural products chemistry. Candidates should be investigating fundamental questions specific to plant/fungal biology at a mechanistic level. Candidates with interests in pathway analysis/metabolomics, secondary metabolism of wild plants, plant chemicals in natural systems, or biochemical responses of plants to the environment are particularly encouraged to apply. The successful candidate must have a Ph.D., a strong record of research accomplishments, and will be expected to develop an externally funded research program in his/her area of expertise. Teaching responsibilities include an introductory course in plant biology and development of a graduate course in his/her area of expertise. Please send curriculum vitae, a brief statement of current and future research, three representative reprints, and three letters of recommendation that consider both research and teaching potential to: **Dr. Andrew J. Wood, Department of Plant Biology, Southern Illinois University Carbondale, Carbondale, IL 62901-6509. E-mail: wood@plant.siu.edu.** Completed applications will be reviewed commencing November 14, 2001, and continue until the position is filled. Appointment will become effective August 16, 2001. *Southern Illinois University Carbondale is an Equal Opportunity Employer/Affirmative Action. Qualified women and minorities are encouraged to apply.*

CEDPA is a nonprofit international organization that has been awarded a USAID contract to provide **TECHNICAL ADVISORS** in AIDS and child survival (TAACS) to USAID offices overseas and in Washington, D.C. This position requires U.S. citizenship. *Security clearance will be required.*

INFECTIOUS DISEASES, HIV/AIDS ADVISOR: India

Position is located in USAID/India. Incumbent will provide technical oversight of the Mission's infectious disease (ID) interventions relative to tuberculosis, polio eradication, and the integration of HIV prevention into reproductive (RH) and child health in Uttar Pradesh and other states. Will help to develop strategies and results frameworks for the ID team and promote cross-linkages to RH and child survival. Responsible for preparing programming documentation related to her/his portfolio. Qualifications: Master's, Ph.D., or M.D. with field experience in international health. Minimum five years of experience in the design and implementation of health, HIV, and/or family planning programs. Prior developing country experience preferred. Familiarity in the area of tuberculosis and the TB-HIV interface is highly desirable. USAID experience highly desirable; experience in Asian preferred.

Excellent benefits. Send résumé/curriculum vitae, references, and salary history. **FAX: 202-332-4496; e-mail: jobs@cedpa.org.** No calls, please. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

University of Kansas Medical Center

A Postdoctoral position is available to join an established program to evaluate antibody and cellular immune responses of macaques infected with SIV and SHIV that cause AIDS and CNS disease. Studies involve macaques enrolled in vaccine protocols to prevent these diseases and macaques in evaluation of effects of other substances aimed at modulating the pathogenesis of infection with these viruses. Experience in cellular immunology is a prerequisite; training in virology, protein chemistry, and signaling pathways would strengthen qualifications for the position. Submit curriculum vitae and names of three references to: **Dr. Opendra Narayan, Professor and Chairman, Microbiology Department, 5000 WHE, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7420. E-mail: bnarayan@kumc.edu.**

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POSITIONS OPEN

RESEARCH POSITION Chemistry or Material Science

Sandia National Laboratories is one of the country's largest research facilities, employing nearly 7,500 people at major facilities in Albuquerque, New Mexico, and Livermore, California. Please visit our website: <http://www.sandia.gov>. We are currently searching for a Chemistry or Material Science Researcher for the Albuquerque site. Salary begins at \$64,700 per year. Benefit and relocation package available. A DOE security clearance will be required.

A research position is available to candidates with demonstrated expertise in polymer and/or surfactant synthesis. Experience in nanoparticle synthesis and stabilization and knowledge of organic modification of inorganic surfaces is desired. Familiarity with analytical techniques such as HPLC, GC/MS, DLS, and X-ray fluorescence would be helpful. The successful candidate will participate in several established interdisciplinary research projects on nanoclusters and nanocomposites and will be expected to actively pursue the development of new programs and research directions. A Ph.D. in chemistry, materials science, polymer science, or related fields is required. Depending on experience and qualifications, either a Postdoctoral Fellow or a Technical Staff position will be offered.

Candidates should send a résumé, statement of research interests, and two reprints or preprints to: **Dr. George Samara, Sandia National Laboratories, P.O. Box 5800 MS: 1421, Albuquerque, NM 87185-1421. FAX: 505-844-4045; e-mail: gasamar@sandia.gov.** Please reference Ad Number 1120SAMARA. Screening of applicants will begin immediately.

U.S. citizenship normally required. Equal Opportunity Employer. Minority/Female/Disabled/Veteran.

The Johns Hopkins University School of Medicine is seeking several highly motivated individuals to provide state-of-the-art microarray services within a new centralized microarray core facility.

BIOSTATISTICAL and BIOINFORMATIC ANALYSTS will participate in development and maintenance of an analytical software suite as well as design and utilization of several core databases. The analysts will provide user support through the organization of workshops and tutorials and encourage the discussion of statistical issues important for experimental design. The development of collaborative consultations for complex projects will be encouraged. For these positions, demonstrated prior experience with large data set manipulation is required. M.S.- and Ph.D.-level candidates with relevant microarray, programming, and/or database design experience are encouraged to apply. Please forward curriculum vitae and three reference letters to: **Britt Silkey, Ross 850, Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: bsilkey@jhmi.edu.**

A **LABORATORY TECHNICIAN** will evaluate user-submitted RNA samples for labeling, perform and evaluate labeling reactions, perform array hybridizations/washes under standard conditions, and collect data from Affymetrix™ and two-color array reader equipment. The Technician will also manage workflow records within the core laboratory information management system. Proven molecular biology skill is required including nucleic acid hybridization. Candidates with prior experience in microarray technologies will be given preference. Please forward curriculum vitae and three reference letters to: **Laurel Ricucci, Hunterian 617, Johns Hopkins University School of Medicine, 725 Wolfe Street, Baltimore, MD 21205. E-mail: lricucci@jhmi.edu.**

POSTDOCTORAL POSITION available immediately to study developmental plasticity of pain systems. The project employs real time RT-PCR and *in situ* hybridization for examining molecular changes in pain circuitry in response to early postnatal inflammation. Ph.D. in molecular biology or related field is required. Contact: **Dr. Michael Lidow, Department OCBS, University of Maryland, HHH, 5-A-12, 666 West Baltimore Street, Baltimore, MD 21201. E-mail: mlidow@umaryland.edu.**

Avalon Pharmaceuticals is an exciting new bio-pharmaceutical company focusing on discovery and implementation of novel drugs, better targets and revolutionary screening paradigms. Using a comprehensive genomics approach, Avalon can pinpoint new drug targets and screen them in complex biological systems, facilitating the identification of lead compounds. Avalon focuses on isolating new potential drug targets that play key roles in the malignant transformation of cancer cells, and coupling targets with approaches for rapid I.D. of novel therapeutic compounds.

We are seeking qualified candidates for the following positions:

- **Ph.D. Scientist, Biological Screening Labs** - genomics based assay development, transcriptional responses, gene expression, cancer cell lines, and drug screening.
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- **BS/MS Analytical Chemist, Medicinal Chemistry Labs** - develop and validate LC/MS (Waters-Micromass) assays for identification, quantitation and purification of compounds, and NMR (Varian) instrumentation and experimentation.
- **Ph.D. Pharmacologist** - in vivo efficacy testing, cancer therapeutics, in vivo pharmacokinetics, animal models, management expertise.

Resumes to: **HR, 19 Firstfield Road, Gaithersburg, MD 20878**

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Transgenics/Cell Biology

Stephen Shears, Ph.D.

A position is available for a Molecular Biologist with experience in cell culture and a particular interest in transgenics. Experience with viral transfection systems is a plus. As well as furthering our understanding of the roles of inositol phosphate phosphatases in cell biology, transgenic animals with altered expression of these enzymes have commercial potential. The successful candidate will participate in a collaborative effort between Dr. Steve Shears at NIEHS and Dr. Jim Petitte at NC State.

Applicants should have a Ph.D. and/or M.D. with no more than 5 years post-doctoral experience.

For additional information contact Dr. Steve Shears, Inositol Signaling Section, NIEHS, NIH, Research Triangle Park, NC 27709 USA. Fax 919-541-0559; email shears@niehs.nih.gov



NIEHS

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Applied Physics

Postdoctoral Associate for Biophysical Research in
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Outstanding Postdoctoral research candidates from either biological or physical science backgrounds may qualify for biophysical research programs in living tissue utilizing nonlinear laser microscopy and cellular electrophysiology.

Postdoctoral researchers from the biological sciences who possess experience in optical biological imaging, experimental physiology, and/or small animal surgery are preferred. Project areas may include applications of multiphoton excited intrinsic tissue fluorescence and harmonic generation for cancer detection in living tissue, combined multiphoton imaging/electrophysiology in neural systems, and exploratory investigations in biomedical or biological research.

For physical and engineering scientists, experience in photophysics, ultrafast lasers and optics, programming (hardware level) and/or electronics would be important assets. Project areas may include design and construction of novel instrumentation for imaging and other biophysical measurements, investigations in multiphoton photophysics and nonlinear optics (absorption cross-sections, photobleaching, nonlinear scattering) and optical engineering for nanobiotechnology.

Applicants for either type of position would also be expected to assist with collaborations with external researchers who use the Resource facilities.

To apply, send curriculum vitae, a letter indicating your career interests, and three letters of recommendation to:



**Mark A. Williams,
for the Attention of:
Dr. Warren R. Zipfel
and Prof. Watt W. Webb,
Applied Physics
229 Clark Hall
Cornell University
Ithaca NY 14853-2501**

FAX 607-255-7658; E-mail drbio@cornell.edu.

Cornell University is an Equal Opportunity/Affirmative Action Employer/Educator and strongly welcomes nominations of, and applications from, women and underrepresented minorities.

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DIRECTOR OF ONCOLOGY RESEARCH

The University of Tennessee Medical Center comprised of the UT Graduate School of Medicine and the UT Memorial Hospital invites applications for a new position, Director of Oncology Research. Applicants must possess a Ph.D., M.D., or equivalent degree and have appropriate post-doctoral training with a strong background in cancer research. The successful candidate will be an outstanding and active researcher with an established independent research program that has peer-reviewed extramural funding. Applicants must participate in the teaching and training mission of the Graduate School. Successful candidates must foster an interdisciplinary research (clinical oncology, informatics, molecular and cellular biology, genomics, experimental therapy and imaging) approach that will make progress on specific cancer issues. Administrative skills necessary to establish and maintain collaborative relationships with other researchers within the institution, the university, and the community are also required.

Salary, benefits and an academic appointment will be commensurate with academic rank, training and experience. Interested candidates should submit a curriculum vitae, statement of research interest, and names of three references to: **John L. Bell, M.D., Director, UT Cancer Center, The University of Tennessee Memorial Hospital, 1924 Alcoa Highway, Box 92, Knoxville, TN 37920. (865) 544-9572.**

The above may also be submitted electronically to: JLBell@utk.edu.



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POSITIONS OPEN

HARVARD MEDICAL SCHOOL

(1) **MOLECULAR AND CELLULAR BIOLOGIST** needed to join an NCI-funded National Cooperative Drug Discovery Group (NCDDG) to design target and mechanism-specific assays to screen, validate, and optimize novel mechanism-specific anticancer agents. Candidate must be proficient in molecular and cellular biology techniques and protein chemistry. Familiarity with assay design, high-throughput screening, and automation is a plus. (2) **ORGANIC CHEMIST** needed to develop mechanism-based small molecules for cancer therapy. The Chemistry Division will design and synthesize small molecules to modulate activity of various oncogenes and antioncogenes. This new, expanding division needs a Ph.D. Chemist to synthesize small molecules by multistep organic synthesis and/or by various combinatorial methods. The ability to work independently, be a good team player, and a record of successful research using modern synthetic organic techniques are required to coordinate an intensive cooperative drug discovery effort. (3) **B.S./M.S. BIOLOGISTS and CHEMISTS** invited to join the project. Experience in organic synthesis, modern instrumentation, cell culture, or molecular biology as well as being a good team player are musts. Positions available immediately. Qualified candidates should forward curriculum vitae, statement of research experience, and names of three references to: **Dr. Jose A. Halperin, Harvard Medical School, 240 Longwood Avenue, C1-607, Boston, MA 02115. E-mail: jhalperin@hms.harvard.edu. Affirmative Action/Equal Opportunity Employer.**

CEDPA is a nonprofit international organization that has been awarded a USAID contract to provide **TECHNICAL ADVISORS** in AIDS and child survival (TAACS) to USAID offices overseas and in Washington, D.C. This position requires U.S. citizenship. Security clearance will be required.

INFECTIOUS DISEASES ADVISOR: USAID/Ukraine

Position located at USAID/Ukraine. Will act as a Technical Advisor on infectious diseases (ID) for USAID, other USG agencies, NGOs, and the countries in the region (Ukraine, Moldova, and Belarus) related to TB, HIV/AIDS, and STIs. Will develop and implement effective ID programs, country strategies, and monitoring and evaluation and budget design for the region. Will assist host country counterparts to reform and modernize ID systems. Minimum: Master's degree in epidemiology or relevant degree with training in HIV/AIDS, TB, and STIs required. Minimum seven years of experience managing PH programs; at least three years of managing ID programs (preferably in former Soviet Union countries) preferred. Experience with USAID is desirable. Russian language competency is desirable. Excellent benefits. Send résumé/curriculum vitae, references, and salary history. Your application cannot be considered without complete materials. FAX: 202-332-4496; e-mail: jobs@cedpa.org. No calls, please. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

University of Texas Southwestern Medical Center at Dallas

An NIH-funded Postdoctoral position is available immediately for a highly motivated individual to work on the structure and function of proteins in the GHMP kinase superfamily and/or key enzymes and regulators in NAD biosynthesis pathways. Candidates should be experienced in macromolecular crystallography, protein expression, and purification. Previous experience in gene cloning, enzymology, or computational structural analysis should be a plus. Please send or e-mail curriculum vitae and names of three references to: **Dr. Hong Zhang, Department of Biochemistry, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9038. E-mail: zhang@chop.swmed.edu; FAX: 214-648-9099.** *UT Southwestern is an Equal Opportunity Employer.*

POSITIONS OPEN



RESEARCH SCIENTISTS DRUG DISCOVERY AND GENE DISCOVERY

Helicon Therapeutics, Inc. is a rapidly growing company that is discovering unique genes and developing agents for enhancing learning and memory. Helicon is currently expanding its drug discovery and gene discovery programs and is offering a number of challenging career opportunities. The Research Scientist position in drug discovery is involved in assay development. It requires a Ph.D. in molecular biology/biochemistry and up to five years of experience including postdoctoral. Industry experience is preferred. The successful candidate will be responsible for target identification and the design and implementation of assays for identifying small molecule leads. Essential skills in molecular biology and analytical techniques are a must. Gene discovery program is seeking a Research Scientist; must have Ph.D. in molecular biology with a neuroscience background and up to five years of experience. The successful candidate will be responsible for investigating gene expression patterns following specific behavior paradigms and identifying genes associated with learning and memory. The ideal candidates will be independent thinkers who possess excellent leadership and communications skills. **RESEARCH ASSOCIATE** positions are also available in the drug discovery and gene discovery programs. B.S./M.S. required; basic molecular biology/biochemistry skills essential. The successful candidates will join a multidisciplinary team examining behavior and genetics, identifying novel gene functions, and creating a broad array of models for therapy of human memory disorders. Helicon offers a competitive salary and comprehensive benefits package. For consideration, e-mail résumé to: **hr@helicontherapeutics.com** or mail to: **Human Resources, Helicon Therapeutics, 1 Bioscience Park Drive, Farmingdale, NY 11735. We are an Equal Opportunity Employer.**

PROGRAM SPECIALIST Animal Biology

The U.S. Department of Agriculture, Cooperative State Research, Education, and Extension Service, seeks a Program Specialist to assist with grants administration in animal research areas (animal health, reproduction, growth, nutrition, and genetics). Applicants with B.S. or M.S. degrees are encouraged. Successful candidates will have education and/or experience in animal biology (e.g., animal or veterinary sciences, biological sciences). For application procedures, contact the Human Resources Division (Telephone: 202-720-5770) or visit the website: **http://www.afm.ars.usda.gov/divisions/hrd/vacancy/S1M-2477.htm**. Closing date is November 16, 2001. For program information, contact: **Dr. Peter Johnson; e-mail: johnson@reeusda.gov; Telephone 202-401-1896. U.S. citizenship required. USDA is an Equal Opportunity Employer and Provider.**

ASSOCIATE NEWS EDITOR

The Rockefeller University seeks an Associate News Editor to join the Rockefeller University Press. Responsibilities include selecting and writing items for news coverage in the *Journal of Cell Biology*, obtaining graphics for use with news items, writing press releases, and coordinating production of news pages with the production office. A Ph.D. degree in the biological sciences is required; journalistic writing experience is preferred. We offer an excellent benefits package and competitive salary. For immediate consideration, please send résumé, clips, and salary requirements to: **The Rockefeller University, 1230 York Avenue, Box 125, New York, NY 10021; FAX: 212-327-7079; e-mail: recruit@rockefeller.edu.** *The Rockefeller University is an Equal Opportunity Employer and has an Affirmative Action Program to increase the employment of women and members of protected groups at all levels.*

POSITIONS OPEN

MOLECULAR MICROBIOLOGIST

The Department of Biology and the Center for the Study of Biological Complexity of Virginia Commonwealth University invite applications for a nine-month, tenure-track faculty position at the level of **ASSISTANT PROFESSOR** in the area of molecular microbiology. The successful applicant will have a Ph.D. in biology, microbiology, or a related field and relevant postdoctoral experience. He or she is expected to establish a productive, externally funded research program, direct graduate students, and collaborate with other faculty in the University. Teaching opportunities include microbiology, cell biology, and bioinformatics.

The individual must present evidence of excellence in scholarship in molecular microbiology within the broad area of cell and molecular biology. Preference will be given to individuals applying contemporary bioinformatics, genomics, or whole system approaches in their research. The successful applicant will be housed in our new Life Sciences Building and is expected to take advantage of the many interdisciplinary research opportunities available within the Department and University. Competitive start-up funds are available.

Virginia Commonwealth University has an enrollment of 24,000 students including 800 undergraduate biology majors. The Biology Department has 30 faculty members with diverse research interests. The Center for the Study of Biological Complexity is a new program of research and scholarship that represents the focus of bioinformatics, genomics, and proteomics at VCU. Interaction is also encouraged with faculty on VCU's Medical College of Virginia Campus and in VCU's Center for Environmental Studies. Submit curriculum vitae; statement of research and teaching interests; and three letters of reference by November 30, 2001, to: **Dr. Stanley Webb, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012.** For more information about the Department of Biology at VCU, see our website: **http://www.has.vcu.edu/bio.** *Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Institution. Women, minorities, and persons with disabilities are encouraged to apply.*

PLANT SCIENTIST

Concordia College, Moorhead, Minnesota

ASSISTANT PROFESSOR, biology, starting August 2002. Three-year appointment with possibility of renewal and/or conversion to tenure track. Ph.D. required. Active involvement with undergraduates in ongoing research is expected. Teaching responsibilities include general botany, introductory biology, and upper-division plant science/conservation biology course of one's choice. Commitment to the educational mission in a Lutheran liberal arts setting is expected. Submit letter of application, curriculum vitae, copies of all transcripts, a statement of teaching philosophy, and three letters of reference to: **Search Committee, Department of Biology, Concordia College, Moorhead, MN 56562.** Applications will be accepted until December 1, 2001, or until the position is filled. See website: **http://www.cord.edu/dept/humres/positions/faculty.html.** *Concordia College is an Equal Opportunity Employer.*

DIABETES SCIENTIST (OPEN RANK):

The Department of Pediatrics at the University of Kentucky is recruiting a Scientist with an established career in diabetes research. Desirable areas of research focus include islet cell physiology and immunology. The ability to relocate an extramurally funded research project will be highly desirable. The position is also supported by a sizable endowment for diabetes research. There are excellent opportunities for collaboration with UK diabetes and endocrine investigators. Laboratory space and start-up funds are available. The quality of life in the bluegrass region of Kentucky is outstanding. Interested candidates should contact: **Kathryn Thrailkill, Division Head, Pediatric Endocrinology or Vipul Mankad, Chair of Pediatrics, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536.**



**The Mars Nutrition Research Council, Inc.
Postdoctoral Fellowship for
Phytochemicals and Human Health
Announcement for 2002**

The MNRC Postdoctoral Fellowship Award was created to encourage young scientists to focus their research on the investigation of the effects of functional food/food ingredients on human nutrition and physical or mental health. The research should involve bioactive food components other than the traditional nutrients. The MNRC intends to fund one Fellow who has recently completed a PhD or MD degree. The MNRC plans to fund the fellowship for two years. Funding for the second year will be based upon demonstration of normal progress in the first year. Research should be carried out in the laboratory of an established researcher, but the fellowship applicant and the host laboratory need not have previously conducted research on functional foods.

The criteria for selection will include quality of prior training and research, publications and abstracts of the applicant, the research proposal, and the quality of the sponsoring institution/mentor.

Application and award schedule:

2002 Applications Available	October 1, 2001
Application Receipt Deadline	January 15, 2002
Announcement of Award	March 15, 2002

To obtain an application form:

e-mail: hannum1@uiuc.edu
or write to: John W. Erdman, Jr., PhD
Executive Director
Mars Nutrition Research Council
P.O. Box 53
Urbana, IL 61803-0053

THE ANGIOGENESIS RESOURCE CENTER

The Developmental Therapeutics Program (DTP, DCTD, NCI) has recently put into operation its Angiogenesis Resource Center. This effort was recommended by the Advisory Committee to the Director, NCI to facilitate research into the mechanisms of tumor angiogenesis and the development of drugs that target the essential tumor vasculature. The Center currently serves qualified investigators in the scientific community by providing human umbilical endothelial cells (HUVEC) and reference agents. Additionally, anti-angiogenesis testing is available without charge for pure natural products or synthetic compounds submitted by suppliers in universities, research institutes, government agencies, and pharmaceutical or biotechnology companies. For additional information on receiving any of these supplies and services, please visit our website at <http://dtp.nci.nih.gov> or contact the following individuals:

Mr. Richard F. Camalier
Biological Testing Branch
DTP, DCTD, NCI
Fairview Center, Suite 205
1003 West 7th Street
Frederick, MD 21701-8527
T: 301-846-5607
F: 301-846-6183
E: camalier@mail.nih.gov

Dr. Ravi K. Varma
Drug Synthesis and Chemistry
Branch
DTP, DCTD, NCI
EPN, Room 831
6310 Executive Blvd.
Rockville, MD 20892
T: 301-435-9159
F: 301-480-4817
E: varmar@exchange.nih.gov

New Funding Opportunities

FOR LEUKEMIA AND LYMPHOMA RESEARCH

The Leukemia Research Foundation is initiating new funding opportunities for leukemia and lymphoma research. **Our goal is to find a cure for leukemia, lymphoma, and related blood cancers.** Our definition of relatedness to leukemia and lymphoma is broad and includes applications in areas such as biochemistry, microbiology, genetics, and immunology among others as long as the proposed project relates to some significant aspect of leukemia or lymphoma.

Deadline for completed grant applications is a postmark date of February 15, 2002. Notification of awards is expected by June 1, 2002.

We are now funding three types of grants:

- 1. New Investigator Research Grant:** \$75,000/year, one year, may be renewable for a second year, may not be used for salary of PI. Investigators must be staff members within five years of beginning an independent lab.
- 2. Postdoctoral Fellowship:** \$30,000 salary support/year, two years. Fellows (M.D. or Ph.D.) can have up to three years of training (excluding medical residency) prior to receiving the grant award.
- 3. Physician-Scientist Postdoctoral Fellowship:** \$45,000 salary support/year, two years. Fellows (M.D., D.O., D.V.M., or equivalent) not yet established as independent investigators are eligible.

For more detailed information and applications, visit www.leukemia-research.org or contact **Hollis R. Brownstein**, Chair, Medical Advisory Committee.



Leukemia Research Foundation
820 Davis Street
Suite 420
Evanston, Illinois 60201
P: 847 424 0600
F: 847 581 0779
E: hollis_lrf@ameritech.net

POSITIONS OPEN



UCLA

UNIVERSITY OF CALIFORNIA LOS ANGELES

Cyanobacterial cell project. **POSTDOCTORAL RESEARCH ASSOCIATE** positions are available to work on a comprehensive investigation involving photosynthesis and respiration in the cyanobacterium *Synechocystis* sp. PCC 6803. In this project, changes in proteome composition, metabolic function, metabolite levels, localization/abundance of specific proteins, and cell structure will be studied in wild type as compared to in specific mutants. Structural and metabolic investigations (focusing on photosynthetic, respiratory, and related pathways) will be carried out at Arizona State University (**Wim Vermaas** and **Robert Roberson**), and proteome analysis will be done at the University of California, Los Angeles (**Julian Whitelegge** and **Kym Faulk**). Scientists focusing on proteome analysis will be located at UCLA and Researchers in molecular physiology, molecular genetics, and structural aspects of the project will be stationed at ASU. A Ph.D. is required and candidates must have expertise in one or more of the following areas: biochemistry, proteomics, molecular metabolism/physiology, electron transfer analysis, and/or advanced light and electron microscopy investigations of photosynthetic and/or prokaryotic systems. Demonstrated research productivity (for example, a strong publication record); evidence for research creativity; and experience with cyanobacteria are preferred. Applicants must send (1) a statement with expertise and research interests, (2) curriculum vitae and publication list, and (3) names and addresses of at least three references to: **Wim Vermaas, Department of Plant Biology, Arizona State University, Box 871601, Tempe, AZ 85287-1601. E-mail: wim@asu.edu** if their interest focuses on metabolite or electron transport analysis or on microscopy. Candidates with expertise and interest in proteome analysis must send the requested information to: **Julian Whitelegge, Department of Chemistry and Biochemistry, UCLA, 405 Hilgard Avenue, Los Angeles, CA 90095. E-mail: jpw@chem.ucla.edu.**

Application deadline is October 31, 2002, or end of each month thereafter until position is filled. *Affirmative Action/Equal Opportunity Employer.*

Stony Brook University/SUNY has one **POSTDOCTORAL POSITION** available immediately to study the mechanism and regulation of lung surfactant secretion. The focus of research is the regulation of membrane fusion in exocytosis. The selected candidate will have a Ph.D. degree in biochemistry/cell biology/molecular biology. Experience in general laboratory techniques like mammalian cell culture, biochemical analysis, DNA/RNA/protein electrophoresis, and Western blotting is required. Salary is commensurate with qualifications and experience. Send curriculum vitae and a list of three references to: **Avinash Chander, Ph.D., Research Professor, Department of Pediatrics, Division of Neonatology, Stony Brook University/SUNY School of Medicine, Health Sciences Center, Stony Brook, NY 11794-8111. E-mail: achander@mail.som.sunysb.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS in evolutionary ecology to study genetic polymorphisms in the resistance of natural plant populations to herbivorous insects. Qualifications include a Ph.D. in evolutionary biology, ecology, botany, or entomology with experience in quantitative genetics and plant-herbivore interactions. Send inquiries or curriculum vitae, names of three references, and a statement of research interests to: **Dr. J. Daniel Hare, Department of Entomology, University of California, Riverside, CA 92521. E-mail: harejd@citrus.ucr.edu. Research website: http://www.faculty.ucr.edu/~harejd/. The University of California is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

PRINCIPAL SCIENTIST Metabolism/Bioanalytical

We are currently seeking an individual to join our company as a Principal Scientist in the metabolism and bioanalytical area. The Principal Scientist position will be responsible for the management and technical advancement of a department that performs assays in support of metabolism and solution properties of pharmaceutically relevant compounds.

Major duties and responsibilities of this Principal Scientist position include the following: Serve as a study director for client studies; serve as a scientific resource; participate in technology development; aid in the identification and evaluation of new technologies of interest; collaborate with other laboratory personnel in the development of new technologies; supervise research associates; achieve and maintain familiarity with relevant scientific concepts and new information; assist with preparation of SOPs; prepare experimental protocols, data analysis, data summaries, and technical reports; and assist in identifying patentable inventions.

Requirements for this position include a Ph.D. in a relevant scientific discipline; a minimum of 10 years of laboratory experience; and a minimum of five years of personnel management experience along with a successful track record in the pharmaceutical industry, academia, or governmental laboratory. Excellent communication and management skills, exceptional analytical skills, a high degree of self-motivation, and ability to work as a proactive team member are required.

Cerep offers a competitive total compensation package as well as a dynamic and collegial work environment. Please send your confidential cover letter and curriculum vitae with salary requirements to the following e-mail address: **n.legresley@cerep.com**. To learn more about Cerep, please visit our website: **http://www.cerep.com**.

Cerep is an Equal Opportunity Employer.

RESEARCH PLANT MOLECULAR GENETICIST U.S. Department of Agriculture

The U.S. Department of Agriculture/ARS Plant Science and Entomology Research Unit, Manhattan, Kansas, is seeking a Research Plant Molecular Geneticist. Duties include leading a highly technical research program on the development and application of molecular markers to wheat improvement. This program is an integral part of a regional cooperative research program to improve wheat performance and develop basic information on the genetics of molecular markers in wheat. A Ph.D. degree in agronomy, plant science, or related fields is required. An extensive working knowledge of the theory and application of population, quantitative, classical, and molecular genetics is required. An understanding of the application of genetic manipulations and molecular tools useful in selecting effective multiple pest resistance and superior agronomic performance is required. Knowledge of wheat genetics and wheat germplasm enhancement techniques is highly desirable. Salary is commensurate with qualifications and experience. For application information, contact: **Barb Marn; Telephone: 785-776-2738**. Vacancy announcement may also be obtained at website: **http://www.ars.usda.gov/**. For position information, contact: **Dr. Gina Brown-Guedira; Telephone: 785-532-7260**. Must be a U.S. citizen. The USDA and its agencies are committed to Equal Employment Opportunity and applicable civil rights provisions. Women and minorities are urged to apply.

POSTDOCTORAL AND RESEARCH ASSOCIATE positions in cancer research. We seek candidates with expertise in cell biology, molecular biology, protein biochemistry, mass spectrometry, cDNA microarray, and/or bioinformatics. Please send to: **Shuk-Mei Ho, Ph.D., University of Massachusetts Medical School, 55 Lake Avenue North, S4-746, Worcester, MA 01655. E-mail: shuk-mei.ho@umassmed.edu.**

POSITIONS OPEN



POSTDOCTORAL POSITIONS

Positions are available for a Biophysicist and a Biochemist/Chemist to work on the application of nanotechnology and high-throughput approaches to membrane protein assembly, structure, and function, a collaboration between the laboratories of **Hagan Bayley** and **Paul Cremer** at Texas A&M. Both basic science and biotechnology are emphasized in our work, which involves molecular genetics, protein engineering, various biophysical techniques, supported bilayers, and bilayer arrays. Recent publications include *Nature* 398:686, 1999; *J. Am. Chem. Soc.* 121:8130, 1999; *Nature Biotechnology* 18:1091, 2000; *Analyt. Chem.* 72:2587, 2000; *Nature Biotechnology* 19:636, 2001; *Science* 291:636, 2001; *Nature Chem.* 73:165, 2001; *Science* 293:1292, 2001; *Nature* 413:226-230, 2001. Send your curriculum vitae and up to three letters of reference to: **Hagan Bayley, Professor and Head, Department of Medical Biochemistry and Genetics, The Texas A&M University System Health Science Center, 440 Reynolds Medical Building, College Station, TX 77843-1114. E-mail: bayley@tamu.edu or cremer@mail.chem.tamu.edu**. Find out more about Texas A&M at website: **http://www.tamu.edu** and our laboratories at websites: **http://bletchley.tamu.edu/homepage** and **http://www.chem.tamu.edu/rgroup/cremer**.

Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS Mouse Mutagenesis and Neurological Phenotypes

A newly funded NIH center for mutagenesis of the mouse genome and detection of neurological phenotypes is looking for junior and senior Postdoctoral Fellows interested in a genetic dissection of nervous system structure, function, and development. This Center is run by the Tennessee Mouse Genome Consortium and is located at several institutions across the state of Tennessee (Oak Ridge National Laboratory, University of Tennessee Knoxville, Vanderbilt, Meharry, St. Jude Children's Hospital, University of Memphis, and the University of Tennessee Health Science Center). Individuals interested in learning and applying skills in mutagenesis, gene discovery, behavioral phenotyping, and structural analysis are encouraged to apply. Please send curriculum vitae and names and addresses of at least two references to: **Dan Goldowitz, Neuromutagenesis Center, Department of Anatomical Neurobiology, University of Tennessee Health Science Center, 855 Monroe Avenue, Memphis, TN 38163. E-mail: dgold@nb.utm.edu**. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.

POSTDOCTORAL POSITION PLANT MOLECULAR BIOLOGY

The University of Idaho, Department of Plant, Soil, and Entomological Sciences, is seeking a Postdoctoral Scientist to study the molecular biology of the biosynthetic pathway of phytic acid and inositol phosphate pathways in wheat and barley. Ph.D. with experience in genetics, biochemistry, or plant physiology required. Salary: \$39,000 to \$42,000 per year. Send letter of application, curriculum vitae, a description of current work, statement of goals/research interests, and three letters of reference. Send inquiries and applications to: **Dr. Ed Souza, University of Idaho; e-mail: esouza@uidaho.edu**. Closing date: November 15, 2001, or until suitable candidate is identified. To enrich education through diversity, the University of Idaho is an Equal Opportunity/Affirmative Action Employer.

Call for Papers on Stem Cell Plasticity

Until recently, it was thought that tissue-specific stem cells could differentiate only into cells of the tissue of origin. However, some recent publications have suggested that adult organ-specific stem cells may be capable of differentiating into cells of different tissues: bone marrow into skeletal and cardiac myoblasts, endothelium, hepatic, biliary duct, lung and gut epithelium or neuroectoderm. In addition, muscle satellite cells may differentiate into hematopoietic cells, and neural stem cells may repopulate the hematopoietic system and even contribute to most tissues of the chimeric mouse.

Therefore, *Experimental Hematology*, the official journal of the International Society for Experimental Hematology (ISEH), is dedicating a spring 2002 issue to reports of the latest and highest-quality research on various aspects of stem cell plasticity, including studies involving stem cells from sources other than marrow and blood. We welcome studies regarding the phenotype and growth factor requirements of stem cells; studies addressing homing and engraftment as well as functional reconstitution of stem cells; and fundamental investigations regarding the nature of "transdifferentiation" and "dedifferentiation."

The ISEH has been dedicated to the promotion of the cutting-edge science in stem cell biology. ISEH members have performed most studies that have led to the in vitro and in vivo characterization of the hematopoietic stem cell and the purification of hematopoietic stem cells, which has underpinned current clinical hematopoietic stem cell transplantation approaches. Likewise, a large number of discoveries in the area of "stem cell plasticity" have come from the labs of ISEH members.

Submissions for this issue must be received by January 4, 2002, and will undergo peer review. Papers of merit that require additional revisions will be considered for other issues of the journal.

**EXPERIMENTAL
HEMATOLOGY**

For submission guidelines, see the journal's "Instructions for Contributors" at <http://www.elsevier.com/locate/exphemonline> or contact the editorial office at exphe@uic.edu.

FELLOWSHIPS

National Defense Science and Engineering Graduate Fellowships



STARTING IN ACADEMIC YEAR 2002-2003

As a means of increasing the number of U.S. citizens trained in disciplines of science and engineering of military importance, the Department of Defense plans to award approximately 200 new three-year graduate fellowships in April 2002. National Defense Science and Engineering Graduate Fellowships may be awarded for study and research leading to doctoral degrees in, or closely related to, the following disciplines:

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING
BIOSCIENCES (INCLUDES TOXICOLOGY)
CHEMICAL ENGINEERING
CHEMISTRY
CIVIL ENGINEERING
COGNITIVE, NEURAL, AND BEHAVIORAL SCIENCES
COMPUTER SCIENCE
ELECTRICAL ENGINEERING
GEOSCIENCES (INCLUDES TERRAIN, WATER, AND AIR)
MATERIALS SCIENCE AND ENGINEERING
MATHEMATICS
MECHANICAL ENGINEERING
NAVAL ARCHITECTURE AND OCEAN ENGINEERING

(INCLUDES UNDERSEA SYSTEMS SUCH AS AUTONOMOUS VEHICLES
AND OTHER NETWORKED PLATFORMS)
OCEANOGRAPHY (INCLUDES OCEAN ACOUSTICS, REMOTE SENSING,
AND MARINE METEOROLOGY)
PHYSICS (INCLUDES OPTICS)

National Defense Science and Engineering Graduate Fellows selected in 2002 will receive a stipend in addition to full tuition and required fees. The stipend amount starts at \$23,000. Recipients of 2002 National Defense Science and Engineering Graduate Fellowships do not incur any military or other service obligation. Specific information regarding the fellowship and an application package are available from the American Society for Engineering Education, a nonprofit education association, which is administering the program for the Department of Defense. **Additional information and an application**

are available from:

American Society for Engineering Education
1818 N Street, NW
Suite 600
Washington, DC 20036
ATTN: NDSEG Program Manager
Phone: 202/331-3516
Fax: 202/265-8504
Email: ndseg@asee.org
Web Address: <http://www.asee.org/ndseg>
Please include mailing and internet address in all information requests.

Completed applications must be postmarked by January 16, 2002.



In accordance with Federal statutes and regulations, no person on the grounds of race color, age, sex, national origin or disability shall be excluded from participating in, denied the benefits of, or be subject to discrimination, under any program activity receiving financial assistance from the Department of Defense.

POSITIONS OPEN



THE UNIVERSITY OF CHICAGO

POSTDOCTORAL FELLOWSHIPS Molecular Cardiology The University of Chicago

The Section of Cardiology in the Department of Medicine at the University of Chicago is seeking candidates for Postdoctoral Fellowships in cardiovascular research and molecular cardiology. Laboratories with in our group study cardiac development (E. C. Svensson); molecular electrophysiology (D. A. Hanck, H. A. Fozzard); mechanisms of cardiomyopathy and human genetics (E. M. McNally); lipoprotein genetics; and proatherothrombotic role (A. M. Scanu). Please send current curriculum vitae to:

Postdoctoral Fellowships in Molecular Cardiology
c/o Amy Murphy
Section of Cardiology, The University of Chicago
5841 South Maryland, MC6088
Chicago, IL 60637

The University of Chicago is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE Center for Behavioral Neuroscience

The Center for Behavioral Neuroscience (CBN) invites applications for Postdoctoral Fellowships. The CBN, a National Science Foundation Science and Technology Center, has been established by a consortium of institutions in the Atlanta metropolitan area including Clark Atlanta University, Emory University, Georgia State University, Georgia Institute of Technology, Morehouse College, Morehouse School of Medicine, Morris Brown College, and Spelman College. Generous state and institutional funds along with \$20 million from the National Science Foundation have been committed to fund CBN programs. The CBN represents an interdisciplinary effort to define the interaction between brain processes and complex behaviors (especially social behaviors) providing a unique training opportunity for Postdoctoral Fellows interested in developing interdisciplinary research in behavioral neuroscience as well as innovative educational strategies for teaching behavioral neuroscience. Postdoctoral Fellows at each of the member institutions will have the opportunity to work in collaborative groups composed of faculty, postdoctoral individuals, and students that are developing integrated new approaches to the investigation of affiliation, aggression, fear, and reproduction. The research conducted by the Postdoctoral Fellows will also be supported by six technology cores. Examples of the technologies in use and under development include microarrays, viral vectors for gene delivery, and small animal neuroimaging. Please visit the Center website: <http://www.cbn-atl.org/news/employment.html> for more information and materials for application. CBN Institutions are Equal Opportunity Educational Institutions and Equal Employment Opportunity/Affirmative Action Employers.

SINGLE-MOLECULE PROTEIN TRANSPORT

POSTDOCTORAL POSITIONS available to develop single-molecule, fluorescence-based approaches for studying protein transport across biomembranes. Expertise needed in one or more of the following areas: protein transport, microinjection, planar/supported bilayers, stopped-flow fluorescence, single-molecule methods, and instrument development. One position is available immediately and a second in six to 12 months. Background/training can range from physics to cell biology. Send curriculum vitae to: Dr. Siegfried Musser, Department of Medical Biochemistry and Genetics, 1114 TAMU, College Station, TX 77843-1114. Website: <http://pauling.tamu.edu:80/mecbiogen/musser.html>.

Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

Four POSTDOCTORAL POSITIONS available at the Hormel Institute, University of Minnesota, Austin, Minnesota, to study the signal transduction in tumor promotion, chemoprevention, and early development (MCB 16:157; MCB 16:6427, 1996; JBC 271:9942, 1996; JBC 271:3126, 1996; JBC 272:4187, 1997; JBC 272:9962, 1997; JBC 272:26325, 1997; JBC 272:27753, 1997; JBC 273:32176, 1998; JBC 274:12229, 1999; JBC 274:14595, 1999; JBC 15389, 1999; JBC 274:29672, 1999; JBC 274:30611, 1999; JBC 275:9143, 2000; JBC 275:20444, 2000; JBC 275:20980, 2000; JBC 275:32250, 2000; JBC 276:14572, 2001; JBC 276:12932, 2001; JBC 276:11775, 2001; JBC 276:20913, 2001; JBC 276:25558, 2001; PNAS 94:5826, 1997; PNAS 94:11957, 1997; PNAS 95:156, 1998; PNAS 98:5786, 2001; PNAS 98:7510, 2001; Cancer Res. 57:2873, 1997; Cancer Res. 57:4414, 1997; Cancer Res. 58:711, 1998; Cancer Res. 58:4102, 1998; Cancer Res. 59:1884, 1999; Cancer Res. 59:3053, 1999; Cancer Res. 59:4610, 1999; Cancer Res. 61:850, 2001; Cancer Res. 61:1604, 2001; Cancer Res. 61:3908, 2001; Cancer Res. 61:4084, 2001). We are seeking self-motivated Ph.D.s with experience in biochemistry and molecular and cellular biology. Experience in signal transduction, functional genomics, *Xenopus* early development, stem cells, mouse transgenics, and knockouts is a plus. Please send your curriculum vitae and the names and telephone numbers of three references to: Dr. Zigang Dong, The Hormel Institute, University of Minnesota, 801 16th Avenue N.E., Austin, MN 55912. FAX: 507-437-9606; e-mail: zigangdong@hi.umn.edu. These positions will remain open until qualified candidates are found. The University of Minnesota is committed to the policy that all persons shall have Equal Access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

POSTDOCTORAL POSITION available to study signal transduction and receptor biology in vascular endothelial cells *in vitro* and *in vivo*. We are interested in the role endothelial cell signaling has in vascular disease, inflammation, and thrombosis. Current studies involve purinergic and protease-activated receptors (see website: <http://connollylab.org>). Experience with molecular biology, cell culture, and murine experiments preferred. Appointment and benefits through Stanford University. Please send curriculum vitae, statement of research interests, and names of three references to: Andrew J. Connolly, M.D., Ph.D., Palo Alto Medical Foundation, Ames Building, 795 El Camino Real, Palo Alto, CA 94301. E-mail: connollya@pamf.org; FAX: 650-327-8309. Equal Opportunity Employer.

NIH-funded POSTDOCTORAL POSITION available to study cell-mediated immune mechanisms in protection and pathogenesis of placental malaria. Seeking a highly motivated candidate with strong laboratory background in immunology and molecular biology, preferably with one to two years of postdoctoral research completed and some supervisory experience. Previous work in a malarious area a plus. Must be willing to spend up to nine months each year working in Kenya. Send curriculum vitae, statement of research interests, and three letters of reference to: Julie Moore, Ph.D., Department of Medical Microbiology and Parasitology, College of Veterinary Medicine, University of Georgia, Athens, GA 30602. FAX: 706-542-0059; e-mail: julmoore@veg.uga.edu. The University of Georgia is an Equal Employment Opportunity/Affirmative Action Institution.

Outstanding POSTDOCTORAL RESEARCH POSITIONS available at Johns Hopkins Medical Institution at Baltimore, Maryland. Research goals: molecular basis in the development of ovarian carcinoma and development of molecular tools for its early detection. Research subjects: molecular genetics, functional genomics, comprehensive gene expression, and proteomics in ovarian carcinoma. Please e-mail your interest, names of references, and curriculum vitae to: Dr. Shih; e-mail: ishih@jhmi.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS PRINCETON UNIVERSITY

Two Postdoctoral positions are available to join our team to study neural coding of memory formation in the mammalian brain. We have genetically engineered a variety of mutant mice in which memory can be either enhanced and impaired, thus allowing us to uniquely manipulate neural activity at system and behavioral level (see Tsien, *Scientific America*, p. 62-68, April 2000; or website: <http://www.molbio.princeton.edu/labs/tsien>).

For one position, candidates will use our recently developed, sophisticated head-stage system (equipped with up to 32 adjustable electrodes) to conduct the large-scale recording of ensemble activity in transgenic mice during memory acquisition, consolidation, and retrieval. Applicants with Ph.D. degrees should have experience in system neurophysiology (such as place cells, head direction cells, etc.); neural computation; artificial intelligence; or automation. For a second position, we seek individuals with extensive experience on rodent learning behaviors. Please send curriculum vitae, summary of research experience, and three recommendation letters via e-mail: jtsien@princeton.edu or mail to: Professor Joe Z. Tsien, Department of Molecular Biology, Princeton University, Princeton, NJ 08544 U.S.A.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE holding Ph.D. to study molecular and neuropathological analyses of Alzheimer's disease and HIV-associated dementia in animal models and primary neuronal cultures. Send curriculum vitae and names and addresses of three references to: Dr. Tsuneya Ikezu, M.D., Ph.D., Assistant Professor of Pathology/Microbiology and Deputy Director of Center for Neurovirology and Neurodegenerative Disorders, University of Nebraska Medical Center, 985215 Nebraska Medical Center, Omaha, NE 68198-5215. E-mail: tikezu@unmc.edu. University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITIONS are available immediately to study transcriptional regulatory networks in mammalian cells and yeast (*Science* 290: 2306-2309). The project will use genomics, computation, and molecular biology to identify *in vivo* target genes and cellular roles for various transcription factors. Candidates should be experienced in molecular biology and/or cell biology. Send curriculum vitae with names of three references and relevant reprints to: Dr. Bing Ren, Ludwig Institute for Cancer Research, 9500 Gilman Drive, CMM East 3020, La Jolla, CA 92093-0660. E-mail: biren@ucsd.edu. The San Diego Branch abides by the requirements of Equal Employment Opportunity/Affirmative Action.

POSTDOCTORAL RESEARCH POSITION at Princeton University immediately available to study the identification of genes, gene expression, and proteins in a single cell using innovative nanostructures. The successful candidate will have a Ph.D. with a strong background in molecular and cellular biology and biochemistry.

Please send curriculum vitae and names of three references to: Professor Stephen Chou, Department of Electrical Engineering, Princeton University, Princeton, NJ 08544. E-mail: chou@ee.princeton.edu. Princeton is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR Systems, Cognitive, or Computational Neuroscience Stanford University School of Medicine

The neuroscience community at the Stanford School of Medicine invites applicants for the position of Assistant Professor. The search will be targeted specifically toward superb young Scientists in the areas of systems, cognitive, and computational neuroscience. The tenure-track position offers outstanding scholarly and scientific resources and the opportunity to teach graduate and medical students with strong interests in neuroscience. The departmental affiliation will be tailored specifically for the successful candidate at the time of recruitment. School of Medicine departments with strong neuroscience representation include Comparative Medicine, Molecular and Cellular Physiology, Neurobiology, Neurology, Neurosurgery, and Psychiatry. Applications are welcome from candidates with basic science and/or clinical training. The predominant criterion for appointment in the University tenure track is a major commitment to research and teaching. Applicants should submit curriculum vitae; bibliography; a one- to two-page description of research interests; and three letters of recommendation as soon as possible (but no later than December 1, 2001) to:

Dr. William T. Newsome
Chair, Search Committee
Department of Neurobiology
Stanford University School of Medicine
Fairchild Building, Room D-209
Stanford, CA 94305-5125
E-mail: matthews@cmgm.stanford.edu

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

POSTDOCTORAL POSITION VANDERBILT UNIVERSITY

An NIH-funded position is available immediately to study mechanisms of protein transport and sorting in the yeast Golgi complex (see *Curr Biol.* 10:1349; *JCB* 147:1223; *Genetics* 150:577). Experience in cell and molecular biology techniques required and in yeast genetics beneficial. Send curriculum vitae and names of three references to: **Dr. Todd R. Graham**, Department of Biological Sciences, Vanderbilt University, Nashville, TN 37235-1634. E-mail: tr.graham@vanderbilt.edu. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION. Applications are invited for a calendar-year, tenure-track ASSISTANT PROFESSOR position available July 1, 2002. The appointee will develop an independent and extramurally funded research program in an area related to normal physiological function or pathophysiology. Preference will be given to candidates working at cellular or molecular levels with models of veterinary or human diseases. The successful applicant will also be expected to participate in the graduate and/or professional instructional programs of the College. Applicants must have the Ph.D. and postdoctoral experience. In addition, the D.V.M., M.D., or equivalent medical degree is preferred. Send curriculum vitae and names and addresses of three references to: **Dr. Brad Klein**, Department of Biomedical Sciences and Pathobiology, College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061. E-mail: bklein@vt.edu. Review of applications will begin on November 15, 2001, and continue until a suitable candidate is found. Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify **Dr. Klein** as noted above; TTY: 1-800-828-1120.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

A Postdoctoral position is available at Colorado State University in the Department of Microbiology to study the interaction of *Enterococcus faecalis* with macrophages and to study the pathogenesis of *E. faecalis* in a mouse infection model. Requirements are a Ph.D. in microbiology, immunology, biochemistry, or related science and experience in microbial genetics, tissue culture, and immunological methods. Excellent oral and written communication skills are preferred. Please send curriculum vitae and names of three references to: **Dr. Claudia Gentry-Weeks**, Department of Microbiology, Colorado State University, Fort Collins, CO 80523-1677. Telephone: 970-491-5411; FAX: 970-491-1815; e-mail: caludia.gentry-weeks@colostate.edu.

For full consideration, the deadline for applications is November 23, 2001.

CSU is Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS ALLERGIC INFLAMMATION Beth Israel Deaconess Medical Center Harvard Medical School

Postdoctoral positions available on a NIH training grant to study diverse aspects of allergic inflammation. Faculty includes **Dr. S. Balk**, **Dr. A. Dvorak**, **Dr. R. Geha**, **Dr. C. Gerard**, **Dr. N. Gerard**, **Dr. J. P. Kinet**, **Dr. A. Nicholson-Weller** and **Dr. P. Weller**. Please send curriculum vitae and names of three references to: **Peter F. Weller, M.D.**, Beth Israel Deaconess Medical Center, Division of Allergy and Inflammation, DA-617, Boston, MA 02215. FAX: 617-277-6061. BIDMC is an Equal Opportunity Employer.

ANNOUNCEMENTS

CALL FOR NOMINATIONS FOR THE 2002 GATES AWARD FOR GLOBAL HEALTH

The Global Health Council, administrator of the Gates Award for Global Health, invites you to nominate an organization for consideration for the \$1 million Gates Award. In submitting nominations for the Gates Award for Global Health, emphasis should be placed on an organization's accomplishments and contributions to date. The deadline for submission of nominations is December 5, 2001. For more information or to submit a nomination, please go to the Global Health Council's website: <http://www.globalhealth.org/> or contact: **Terry Fisher**, Award Program Assistant; e-mail: tfisher@globalhealth.org; Telephone: 802-649-1340 (U.S.A.).

SYMPOSIUMS



INTERNATIONAL CELL DEATH SOCIETY PRESENTS

The Fourth International Cell Death Symposium on The Mechanisms of Cell Death
May 31-June 3 2002: Noosa Lakes Resort and Conference Centre, Noosaville, Australia

Organizers: **Z. Zakeri**, **R. Lockshin**, **S. Kumar**, **D. Vaux**. Organizing committee: **R. Birge**, **K. d'Herde**, **M-L Gougeon**, **D. Green**, **M. Hengartner**, **A. Kimchi**, **C. Martinez**, **A. G. Melino**, **S. Nagata**, **D. Nicholson**, **M. Piacentini**, **A. Tolkovsky**, **B. Zhivotovsky**.

Information for submissions and abstracts for posters: by e-mail only; submit by February 1, 2002, deadline to website: <http://www.celldeath-apoptosis.org>. Registration information at e-mail: celldeath@all-occasions.com.au. For full information, consult Website.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available immediately for individuals with experience in molecular biology. Current projects in the laboratory include high-throughput phenotypic studies in yeast and protein regulator networks of oncogenes. Send curriculum vitae and references to: **Dr. C. Wilson Xu**, Sloan-Kettering Institute and Graduate School of Medical Sciences of Cornell University, 1275 York Avenue, New York, NY 10021. E-mail: w-xu@ski.mskcc.org; FAX: 212-794-4342.

FELLOWSHIPS

GRADUATE FELLOWSHIPS

The Academy for Educational Development invites applications for National Security Education Program (NSEP) David L. Boren Graduate Fellowships. Fellowships enable U.S. graduate students to add an important international dimension to their education by supporting the study of languages, cultures, and world regions deemed critical to U.S. national security. Excluded is study of Western Europe, Canada, Australia, and New Zealand. Fellowships are awarded in a broad range of disciplines including applied, biological, economic, health, physical, and social sciences. Awards support overseas and domestic study for up to 24 months. Award recipients incur a requirement to work for a federal government agency or office involved in national security affairs or in U.S. higher education in an area for which the Fellowship was awarded, in that order of precedence. Applicants must be U.S. citizens enrolled in or applying to graduate programs in accredited U.S. colleges and universities located within the United States. Deadline: February 1, 2002. Contact: Academy for Educational Development, NSEP David L. Boren Graduate Fellowships, 1825 Connecticut Avenue, N.W., Washington, DC 20009. Telephone: 202-884-8285 or 800-498-9360; website: <http://www.aed.org/nsep>.

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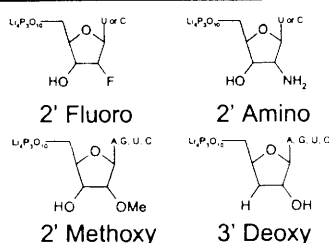
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