

NEW PRODUCTS

COMPACT ROTARY MICROTOMES

Leica

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The RM2125 and RM-2125RT are rotary microtomes for routine applications. The design focuses on essential basic features, as well as sectioning quality, operator safety, and ease of operation, for an instrument with an attractive price/performance ratio. A wide range of accessories are available for a variety of applications.

PROTEIN AND NUCLEIC ACID STAINING

FASTsilver is a rapid and sensitive method for detecting proteins and nucleic acids fractionated by polyacrylamide gel electrophoresis. The staining is 100 times more sensitive than Coomassie blue protein

Geno Technology

For more information call 314-645-2050 or **circle 144** on the Reader Service Card

staining and is 10 times more sensitive than ethidium bromide for DNA and RNA. FASTsilver provides gels with clear backgrounds and sharp protein or nucleic acid images. The simple protocol takes as little as 60 min. The lower detection limit is 1 ng per band.

SCANNING MOBILITY PARTICLE SIZERS

The Model 3936-series scanning mobility particle sizer (SMPS) systems are newly redesigned, high-resolution systems that provide versatile configuration options. They can analyze submicrometer aerosols in 60 s or less, in the size range from 3 to 1000 nm in diameter. An innovative open-platform design makes it possible to choose among long, radial, and nano differential mobility analyzers based on individual research needs. Users also select one of three condensation

TSI

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particle counters, permitting the flexibility needed for the most accurate SMPS configuration in multiple applications.

PORTABLE SPECTROPHOTOMETER

LabSpec Pro is an accurate, rugged, portable near-infrared analyzer. Equipped with a built-in handle and internal battery, LabSpec Pro measures 15 inches by 4.4 inches by 12.5 inches and weighs 15 pounds. It features a host of probes and sampling accessories for the fiber optic input to measure liquids, powders, and slurries. Its wavelength range (350 to 2500 nm) can penetrate plastic bags, bottles, or glass vials so samples can be tested in their original containers. With a scanning time of 0.1 s and a sampling interval of 2 nm, the instrument is suitable for all nondestructive quality control applications.

Analytical Spectral Devices

For more information call 303-444-6522 or **circle 146** on the Reader Service Card

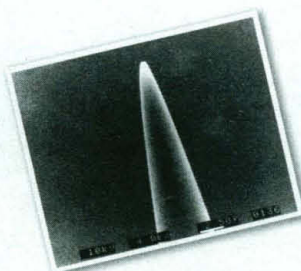
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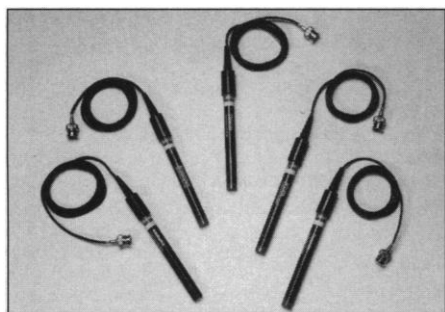
PH METERS WITH ION-SELECTIVE ELECTRODES

Beckman Coulter

For more information call 800-742-2345 or **circle 147** on the Reader Service Card

A new series of three pH meters can also measure concentration with ion-selective electrodes. Five electrodes are available for ammonia, ammonium, chloride, fluoride, and nitrate. These electrodes are responsive

over a wide concentration range and are designed for reliability, sensitivity, and reproducibility. The electrodes are not affected by color, turbidity, or sample size. The three pH meters available are a handheld waterproof model, a benchtop model, and a high-performance model. All three measure pH, con-



centration, millivolt through oxidation reduction potential, relative millivolt, and temperature. They feature an RS-232 computer or printer interface and data storage.

GEL LOADING SYSTEM

Gel-Mate loads 8 or 12 samples simultaneously into square or shark-tooth sequencing gels. Different needle diameters allow easy loading into sequencing gel wells ranging from 0.2 to 0.4 mm. A needle guard prevents needle damage during sample loading.

World Precision Instruments

For more information call 941-371-1003 or **circle 148** on the Reader Service Card

PORTABLE TEMPERATURE AND CALIBRATION SYSTEM

A portable temperature calibration and verification system consists of two components. The FTM-100 field temperature monitor provides absolute temperature traceable to the National Institute of Standards and Technology (NIST). It

Kaye Instruments

For more information call 781-275-0300 or **circle 149** on the Reader Service Card

displays temperatures from -200° to 500°C . The monitor combines with one of two field temperature dry wells with different ranges. The FTR-122 and FTR-350 dry wells provide NIST-traceability from -10° to 122°C and from 25° to 350°C , respectively.

LITERATURE

DuraSamplIR FT-IR Diamond Sampling illustrates the many sampling configurations available in the DuraSamplIR product family. The product family offers an integrated, modular sampling system for all solids, corrosives, powders, and liquids, both macro and micro.

ASI SensIR Technologies

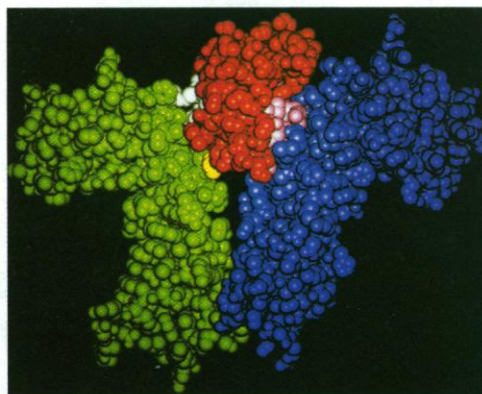
For more information call 203-207-9725 or **circle 150** on the Reader Service Card

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 manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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NATIONAL ACADEMY OF SCIENCES COLLOQUIUM
VIRULENCE AND DEFENSE IN HOST-PATHOGEN INTERACTIONS
COMMON FEATURES BETWEEN PLANTS AND ANIMALS

DECEMBER 9-11, 1999 - THE ARNOLD AND MABEL BECKMAN CENTER, IRVINE, CALIFORNIA

Organized by Noel T. Keen, R. James Cook, Brian J. Staskawicz, John J. Mekalanos & Fredrick M. Ausubel

Virulence Mechanisms in Pathogens

Jorge Galan, Yale Univ. School of Medicine, *Modulation of the host-cell actin cytoskeleton by the Salmonella type III secretion system*

Frances Jumak, UC Irvine, *Structure and function of pectic enzymes—virulence factors of plant pathogens*

Dan Portnoy, UC Berkeley, *Pathogenicity and immunogenicity of Listeria monocytogenes*

Alan Collmer, Cornell University, *Type III mediated translocation of plant effectors by Pseudomonas syringae*

Guy Cornelis, Catholic University, Brussels, Belgium, *Type III secretion and translocation of Yersinia Yops*

Ulla Bonas, Univ. of Halle, Germany, *Type III secretion and targeting of bacterial proteins from plant and animal pathogens by Xanthomonas campestris pv. Vesicatoria*

Jeff Miller, UCLA, *Signal transduction during the Bordetella infectious cycle*

Lory Rahme, Harvard University, *Multihost pathogenesis systems—Pseudomonas aeruginosa-Coenorhabditis elegans interactive genetics*

Peter Greenberg, Univ. of Iowa, *Communication systems and group behavior in Pseudomonas aeruginosa*

William Goldman, Washington Univ., St. Louis, *Fungal-host interactions as exemplified by Histoplasma capsulatum*

Brett Finlay, Univ. of British Columbia, *Enteropathogenic E. coli*

David Relman, Stanford Univ., *Global host gene expression responses during infection*

Active Defense Mechanisms in Hosts

Kathryn Anderson, Sloan Kettering Inst., *Drosophila Toll receptor pathways*

Jonathan Jones, John Innes Inst., England, *Role of toll-like proteins in disease resistance of plants*

Gourisankar Ghosh, UC San Diego, *The NF- κ B pathway in Vertebrates*

Jeff Dangl, Univ. North Carolina, *Perception of pathogen signals by plants*

Gerry Pier, Harvard University, *Innate defense mechanisms on mucosal surfaces*

Matthew Mulvey, Washington Univ. School of Medicine, St. Louis, *Innate Host defenses against uropathogenic E. coli*

Greg Martin, Boyce Thompson Inst., Cornell Univ., *Pathogen recognition and signal transduction mediated by the product of the Pto disease resistance gene*

Carl Nathan, Weill Medical College, Cornell Univ., New York City, *Reactive oxygen and nitrogen species in animal defense: mechanisms of microbial resistance*

Dan Kleissig, Rutgers University, *NO and salicylic acid signaling in plant defense*

Robert Hancock, University of British Columbia, *Antimicrobial peptides in animal defense*

Bud Ryan, Washington State Univ., *Defense signaling and response pathways in plants against pests*

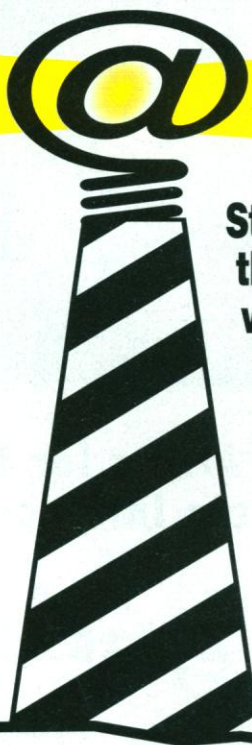
Keynote address, David Baltimore, president, California Institute of Technology, *Isn't Microbiology out-dated?*

Space for this meeting is limited, so please register early

For additional information: Email: epatte@nas.edu Web: www.nas.edu/nas/colloquia

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Il Ciocco, Italy	\$825	\$720	\$575	\$655	\$550	\$405

* Conferees attending both **Metals in Biology** and the 3-day **Graduate Research Seminar** should add \$304 to the 5-day single room rate or \$266 to the 5-day double room rate.

The 2000 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.

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The Gordon Research Conferences web site at <http://www.grc.uri.edu/> contains the most up-to-date information we have for any given Conference. Be sure to take a look at the scientific program, the conference schedule or any other information that has been posted. Certain conferences, as noted below, have created their own web sites as well.

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*The international Gordon Research Conferences were established
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AGING, BIOLOGY OF VENTURABEACH HOTEL

VENTURA, CA

JAN 30 - FEB 4, 2000

Michal Jazwinski, Chair

James F. Nelson &

Phyllis M. Wise, Co-Vice-Chairs

- Aging As a Problem in Complex Systems Analysis
- Metabolic Signals in Aging: Genetics
- Metabolic Signals in Aging: Dietary Restriction
- Stress Responses and Aging: Genetics
- Resistance to Stress and Damage Repair in Aging
- Mechanisms of Skeletal Muscle Aging
- Cellular Senescence
- The Aging Brain
- Cellular "Damage Control"

BIOGENIC HYDROCARBONS & THE ATMOSPHERE (NEW)

HARBORTOWN RESORT
VENTURA, CA

FEB 27 - MAR 3, 2000

Thomas Sharkey, Chair

Rainer Steinbrecher &

Guenther Seufert, Co-Vice-Chairs

<http://www.wisc.edu/biotron/BVOC/>

- Role of BVOCs in the Earth System
- Biosynthetic Pathways and Controls
- Ecophysiological / Environmental Controls
- Emission Modelling of Ecosystems and Validation
- Papers from Early Career Scientists
- Integrated Field Studies
- Atmospheric Chemistry Mechanisms
- BVOC Behavior in the Atmosphere
- Observations and Reflections

CANCER GENETICS & EPIGENETICS: NEW INSIGHTS INTO DNA ALTERATIONS IN NEOPLASIA

VENTURA BEACH HOTEL

VENTURA, CA

FEB 20 - 25, 2000

Bill Bennett & Jill James, Co-Chairs

Ben Tycko, Vice-Chair

- DNA Methylation
- Genomic Imprinting & DNA Methylation I, II
- Chromosomes & Chromatin
- DNA Repair & Apoptosis I, II
- Molecular Epidemiology: Gene-Environment Interactions
- Cancer Susceptibility Genes
- Chemoprevention

CHEMICAL SENSORS & INTERFACIAL DESIGN

VENTURABEACH HOTEL

VENTURA, CA

JAN 23 - 28, 2000

Thomas Mallouk, Chair

Deborah H. Charych, Vice-Chair

- Supramolecular Design of Chemical Sensors
- Chemical Forces in Biomolecular Recognition
- New Materials for Chemical Sensors
- Chemical Sensor Platforms
- Novel Optical Methods
- Array Chemical Sensors
- Microfluidic and Microelectrochemical Sensors
- Chemical Sensing in Remote and Harsh Environments

COLLOIDAL, MACROMOLECULAR & POLYELECTROLYTE SOLUTIONS

HARBORTOWN RESORT

VENTURA, CA

FEB 6 - 11, 2000

Eric J. Amis, Chair

Alice P. Gast, Vice-Chair

- Confined Geometries
- Frustration
- Electric, Magnetic, and Flow Fields
- Polyelectrolyte Surfaces
- Self Assembly

BioMEMS

- Worms, Ribbons and Spheres

COMBINATORIAL CHEMISTRY

IL CIOCCO

BARGA, ITALY

MAY 28 - JUN 2, 2000

Thomas R. Beattie &

Stephen Kaldor, Co-Chairs

John S. Kiely &

Hans Ulrich Stitz, Co-Vice-Chairs

- Library Design
- High Throughput Analysis and Purification
- Functionalized Resins and Reagents
- Diversity Analysis / Computational Aspects
- Case Studies of Successful Combichem
- Combichem Education
- Complex Molecule Combichem
- Combichem in Biology, Catalysis and Materials Science
- Synthetic Methods Development

COMPOSITES
VENTURA BEACH HOTEL
VENTURA, CA
JAN 9 - 14, 2000
H. Daniel Wagner, Chair
Lynn S. Penn, Vice-Chair

- A Fresh Look at The Reinforcing Phase
- New Theoretical Approaches
- Biologically-Inspired Composites
- Interfacial Adhesion - An Inextricable Issue?
- Composites for the 21st Century
- Nanostructural Design & Engineering
- Imaginative Processing of Composites
- Morphological, Materials and Chemical Aspects
- An Evening of Rapid Communications

DRUG CARRIERS IN MEDICINE & BIOLOGY

HOLIDAY INN
VENTURA, CA
FEB 20 - 25, 2000
Pamela Trail & Lee Leserman, Co-Chairs
Frank Szoka & Vladimir Torchilin, Co-Vice-Chairs

- Normal and Pathologic Physiology and Their Impact on Drug Delivery
- Drug Carrier - Immune System as Vector and Target
- Angiogenesis and Vasculature Targeting
- Tumor Targeting
- Novel Carriers and Delivery Systems
- Clinical Developments

ELECTROCHEMISTRY

HARBORTOWN RESORT
VENTURA, CA
JAN 16 - 21, 2000
Neal Armstrong, Chair
Debra R. Rolison, Vice-Chair

- Materials / New Technologies
- Materials
- Materials / Surfaces / Interfaces
- New Investigators
- Bioelectrochemistry
- Bioelectrochemistry / New Technologies

GLYCOLIPID & SPHINGOLIPID BIOLOGY

IL CIOCCO
BARGA, ITALY
MAY 14 - 19, 2000
Guido Tettamanti, Chair
Alfred H. Merrill, Vice-Chair

- Biotechnological Approaches in Glyco / Sphingo-Lipid Research
- Medical Implications of Glyco / Sphingo-Lipids: Acquired Diseases
- Medical Implications of Glyco / Sphingo-Lipids: Genetic Diseases and Gene-Therapy
- Membrane Domains and Glyco / Sphingo-Lipids: Structural and Functional Aspects I, II

- Glyco / Sphingolipids in Signalling and Regulatory Processes I, II
- Metabolism and Trafficking of Glyco / Sphingo-Lipids
- Structural Biology and Genetics of Glyco / Sphingo-Lipids

GRADUATE RESEARCH SEMINAR: BIOINORGANIC CHEMISTRY

HARBORTOWN RESORT
VENTURA, CA
JAN 27 - 30, 2000
Megan Nunez, Chair
Seth M. Cohen, Vice-Chair

- Small Molecule-Metal Interactions and Synthetic Active-Site Mimics
- Spectroscopy of Biological Metals
- Metalloprotein Structure and Function
- Biological Metal Regulation, Storage, and Transport
- Metal-Nucleic Acid Interactions

ISOTOPES IN BIOLOGICAL & CHEMICAL SCIENCES

HOLIDAY INN
VENTURA, CA
JAN 9 - 14, 2000
Vern L. Schramm, Chair
Hans H. Limbach, Vice-Chair

- Isotopic Anthropology
- Hydrogen Bonding in Chemical and Enzymatic Systems
- Enzymatic Mechanisms Probed by Isotope Effects
- Computational Chemistry and Isotope Effects
- Isotopes in Chemistry
- Methods in Isotopic Fractionations
- Theory for Isotope Effects
- Transition States
- Atmospheric and Extraterrestrial Chemistry

MAGNETIC NANOSTRUCTURES

HOLIDAY INN
VENTURA, CA
FEB 13 - 18, 2000
Albert Fert, Chair
Robert J. Celotta, Vice-Chair
<http://www.lcr.thomson-csf.com/cnrs/umr-0137/grc/grc.html>

- Nanoscale Magnetism, Magnetic Switching in Small Elements and Heterostructures, Molecular Magnets, Quantum Tunneling of Magnetization
- Multilayered Structures, Exchange Bias, Current Driven Switching
- Magnetic Semiconductors, Spin Transport in Semiconductors and Heterostructures, Spintronics
- Ferromagnetic Material / Superconductor Heterostructures
- Spin Dependent Tunneling: Magnetic Tunnel Junctions, Spin Polarized Strm, Single Electron Effects
- New Materials for Magnetic Nanostructures and Spin Dependent Transport: Oxides, Half-Metals Etc.
- New Methods Using Synchrotron Radiation, Neutrons Etc.

- Applications: Sensor, Memory (Mram), Quantum Computing

MAMMARY GLAND BIOLOGY

IL CIOCCO
BARGA, ITALY
MAY 21 - 26, 2000
Nancy E. Hynes & Charles H. Streuli, Co-Chairs

- Steroids / Growth Factors / Proliferation
- Transcription Factors
- Repair / BRCA 1, II
- Immortality / Stem Cells
- Apoptosis
- WNT / Catenins
- Patterning / Morphogenesis
- Metastasis

MARINE NATURAL PRODUCTS

VENTURA BEACH HOTEL
VENTURA, CA
FEB 27 - MAR 3, 2000
Valerie Paul, Chair
Alison Butler, Vice-Chair

- Marine Toxins
- Marine Natural Products and Their Biological Activities
- Symbiosis
- Marine Chemical Ecology
- Synthesis of Combinatorial Libraries of Marine Natural Products
- Biosynthesis
- Advances in Instrumentation
- Collection, Conservation, and Aquaculture of Marine Invertebrates

METALS IN BIOLOGY

HARBORTOWN RESORT
VENTURA, CA
JAN 23 - 28, 2000
Vincent L. Pecoraro, Chair
Barbara K. Burgess, Vice-Chair

- Metals in Medicine
- Metal-Sulfur Proteins
- Ion Transport and Assembly
- Copper Enzymes and Models
- Designed Systems
- Theoretical Approaches to Understanding Metals in Biology
- Heme and Corrin Enzymes
- Joint Session with Graduate Research Seminar

MOLECULAR & IONIC CLUSTERS*

TOULOUSE, FRANCE
APRIL 16 - 21, 2000
Philippe Brechignac & Nadine Halberstadt, Organizers
<http://irsamc1.ups-tlse.fr/irsamc/mic2000.htm>

- High Resolution Spectroscopy
- Reactivity in Clusters
- Hydrogen Bonding
- Cluster-Surface Interactions
- Solvation Studies in Clusters
- Ionic Bonding in Clusters

- Thermodynamics Properties
- Clusters of Atmospheric / Astrophysical Interest
- Intracuster Dynamics
- Quantum Clusters

* GRC Sponsored Meeting. Please send all applications to the conference organizers in France. Check the web site for details.

MUTAGENESIS & CARCINOGENESIS (NEW)

HOLIDAY INN
VENTURA, CA
FEB 27 - MAR 3, 2000
Lawrence A. Loeb, Chair
Edward L. Loechler, Vice-Chair

- DNA Adduct Structure
- New Techniques to Study Mutations, DNA Damage and DNA Repair and Mutagenesis
- From Carcinogens to Mutation
- Relationship Between DNA Adducts and Mutation
- DNA Polymerases
- DNA Polymerase and Lesion Bypass
- Mutator Phenotypes
- Gene Regulation in Carcinogenesis: Non-Genotoxic Events
- Genetic Susceptibility and Cancer

MYELIN

IL CIOCCO
BARGA, ITALY
MAY 7 - 12, 2000
Steven Pfeiffer & Klaus Nave, Co-Chairs
Marie T. Filbin, Vice-Chair

- Glial Cell Fate Determination
- Neural Stem Cells
- Progenitor Migration
- Cell Cycle-Differentiation Interface
- Growth Factors, Signal Transduction and Transcription Factors
- Myelin Protein and Lipid Trafficking
- Structural Biology of Myelin Proteins
- Glycoconjugates
- Axon-Glia Interactions
- Demyelinating Disease

OXYGEN RADICALS

VENTURA BEACH HOTEL
VENTURA, CA
FEB 6 - 11, 2000
Balz Frei & Balaraman Kalymaranan, Co-Chairs
Ann E. Aust & Christine Winterbourn, Co-Vice-Chairs

- Signature Products of Reactive Oxygen Species
- Small Molecular Weight Antioxidants
- Regulation and Molecular Mechanisms
- Redox Regulation of Glutathione
- Oxidases and Peroxidases
- Oxidant Induced Transcription Factors in Cell Signaling

- Nitric Oxide and Peroxynitrite
- Cytoprotective and Cytotoxic Effects of Nitric Oxide Synthase
- Molecular Mechanisms of Diseases

PEPTIDES, CHEMISTRY & BIOLOGY OF

VENTURA BEACH HOTEL
VENTURA, CA

FEB 13 - 18, 2000

Garland Marshall &

Judd Berman, Co-Chairs

Victor Hruby &

Jeffrey Kelly, Co-Vice-Chairs

- GPCR Transduction
- Therapeutic Opportunities in Signaling
- Biomaterials / Novel Applications
- Chemistry of Peptides / Peptidomimetics
- Ligation / Inteins
- Synzymes / Modeling
- Trafficking / Targeting
- Proteomics / Technology
- VdV Award

PHOTOSENSORY RECEPTORS & SIGNAL TRANSDUCTION*

IL CIOCCO

BARGA, ITALY

APR 30 - MAY 5, 2000

John Spudich &

Winslow Briggs, Co-Chairs

- Phototransduction: Insights From 3D Atomic Structure & Dynamics
- Rhodopsin Signaling I: Archaeal Sensory Rhodopsins
- Rhodopsin Signaling II: Mammalian Visual Pigments
- Photosensory Receptors in Eukaryotic Microbes
- Cryptochromes
- Phototropin (NPH1)
- Phytochromes in Higher Plants
- Phytochromes in Lower Plants and Cyanobacteria
- Photoactive Yellow Proteins (PYPs) & PAS Domains

*GRC Sponsored Meeting

PROLACTIN

HARBORTOWN RESORT
VENTURA, CA

JAN 30 - FEB 4, 2000

Li-Yuan Yu-Lee, Chair

Paul Kelly, Vice-Chair

<http://www.bcm.tmc.edu/prolactin/>

- Pituitary Development and PRL Secretion
- Regulation, Expression and Signaling of PRL
- GH and PRL Receptor Signaling
- Transcriptional Controls
- PRL on Mammary Gland
- PRL on Immune Diseases
- PRL on the Utero-Placental Unit
- PRL and GH on Angiogenesis and Apoptosis

PROTONS & MEMBRANE REACTIONS

HARBORTOWN RESORT
VENTURA, CA

FEB 20 - 25, 2000

Robert H. Fillingame, Chair

Colin Wraight, Vice-Chair

- Membrane Protein Folding and Structure
- Pores and Channels
- Physics and Chemistry of Proton Transport
- Proton- and Sodium-Motive Fo
- Biophysics of Rotary Motors
- Proton Transporting Cytochrome Oxidase
- Halobacterial Rhodopsins
- Electron Coupled Proton Transfer
- Secondary Transport Carriers

REVERSIBLE ASSOCIATIONS IN STRUCTURAL & MOLECULAR BIOLOGY (NEW)

HOLIDAY INN

VENTURA, CA

JAN 30 - FEB 4, 2000

Thomas M. Laue, Chair

<http://www.bbri.org/rasmb2000/>

- Designing Protein-Protein Interactions
- Engineering Out Aggregation in Formulations
- Linked Binding Energetics
- Protein Nucleic Acid Interactions
- Protein-Membrane Interactions
- Kinetics and Thermodynamics of Biomolecular Assembly
- Interactions in Blood Coagulation
- Mass Spectroscopy of Interacting Systems
- Protein Small Molecule Interactions

SENSORY TRANSDUCTION IN MICROORGANISMS

VENTURA BEACH HOTEL

VENTURA, CA

JAN 16 - 21, 2000

Philip Matsumura, Chair

Jeff Segall, Vice-Chair

- Signalling Pathways
- Receptors
- Quorum Sensing
- Two-Component Signalling / PAS Domains
- Signalling Diversity
- Motor Structure / Assembly
- G-Protein Signalling
- Eukaryotic Signalling

SPIROCHETES, BIOLOGY OF

HOLIDAY INN

VENTURA, CA

JAN 16 - 21, 2000

Steven J. Norris, Chair

Richard Zuerner, Vice-Chair

<http://utmmg.med.uth.tmc.edu/treponema/biolofspiro2000.html>

- Evolution and Diversity
- Gene Organization, Expression and Function

- Genome Analysis and Comparative Genomics
- Host-Parasite Interactions I, II
- Antigens and Host Responses
- Biology, Physiology, Structure and Ecology
- Spirochetal Membranes and Membrane Proteins

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FEB 13 - 18, 2000

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- New Materials
- Pseudogap and Normal State Properties
- Stripe Phases
- Vortex Physics
- Applications
- Novel Heavy Electron, Organic, and Magnetic Superconductors
- Condensation Energy: Theory and Experiment
- Pairing Symmetry and Mechanisms
- Theory
- c-axis Transport

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Dudley K. Strickland &

Paul J. Declerck, Co-Chairs

Jay L. Degen, Vice-Chair

- Advances in Structure of Fibrinolytic Proteins
- Fibrinolysis and Matrix Biology
- Fibrinolytic Receptors and Cellular Function
- Angiogenesis and Angiostatin
- Fibrinolytic System in Tumor Progression
- Metalloproteinases and Plasminogen Activators in Physiology and Pathology
- Late Breaking Developments (Selected Poster Presentations)
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POSITIONS OPEN

CHAIR DEPARTMENT OF MOLECULAR BIOLOGY Lerner Research Institute The Cleveland Clinic Foundation

We are seeking a Chair for the Department of Molecular Biology, which occupies over 20,000 square feet in the Lerner Research Institute. An Endowed Chair accompanies this position. The department currently consists of seven faculty with well-funded research programs in the areas of signal transduction and gene expression, nucleic acid biochemistry, and cell cycle regulation. The ideal applicant for this position will have an outstanding national reputation in an area that complements the strengths of the department. The Lerner Research Institute with over 100 Independent Investigators in eight departments and an annual budget of more than \$50 million has a commitment to excellence in basic and applied biomedical research. We are seeking candidates with the vision and energy to recruit other talented scientists who will synergize with current faculty. The Chair will be provided with a highly competitive salary, generous space and start-up support, and recruitment packages for new faculty. A curriculum vitae and names and addresses of three references should be sent to:

Paul E. DiCorleto, Ph.D.
Search Committee for the Chair of
Molecular Biology
Department of Cell Biology-NC10
Cleveland Clinic Research Institute
9500 Euclid Avenue
Cleveland, OH 44195
Website: <http://www.lerner.ccf.org/>
E-mail: dicorlp@ccf.org

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FACULTY POSITIONS DEPARTMENT OF CHEMICAL ENGINEERING Worcester Polytechnic Institute

Department of Chemical Engineering at the Worcester Polytechnic Institute (WPI) invites applications for two tenure-track faculty positions, one at the ASSISTANT PROFESSOR level and the other at OPEN RANK, to begin fall 2000. WPI is the third oldest, nationally ranked, technological university with 2,700 undergraduate and more than 1,000 full- and part-time graduate students, and an innovative project-based education. The department currently comprises 10 faculty and about 200 undergraduate and 35 graduate students and Postdoctorates. The active research areas are catalysis and reaction engineering, zeolite technology, biochemical engineering, advanced materials, and environmental engineering. Additional information about WPI and the department is available at [website: http://www.wpi.edu/](http://www.wpi.edu/). We seek outstanding individuals with a Ph.D. in chemical engineering or a closely related field who can supplement or complement our graduate offerings. Areas of particular interest are catalysis, biomedical, electrochemical, and environmental engineering. The selected candidate will be expected to develop a vigorous research program of international repute and teach effectively at both the undergraduate and graduate levels.

Applicants should submit a curriculum vitae along with copies of representative publications, research and teaching plans, and a list of references to: Professor Anthony G. Dixon, Department of Chemical Engineering, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609-2280. For full consideration, applications should be received by November 15, 1999.

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POSITIONS OPEN

WASHINGTON STATE UNIVERSITY COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Washington state legislature authorized funding the Safe Food Initiative to address farm to table food production, quality and safety issues. These **FACULTY POSITIONS** are to be filled by July 2000. A position description is available at the listed URL address:

Analytical Chemist: support IR-4 registration of crop protection chemicals for minor crops. **Website:** http://entomology.wsu.edu/position/analytical_chemist.html.

Animal Waste Management and Environmental Quality Engineer: conduct innovative research on agricultural waste management systems and their effects on the environment. **Website:** <http://www.bsyse.wsu.edu/awpositions.html>.

Biological Control/IPM Specialist: integrate bio-control agents into existing/developing IPM programs. **Website:** <http://entomology.wsu.edu/position/biocontrol.html>.

Dairy Waste Management Specialist: create and execute a vigorous extension and research program focused on animal nutrient management and environmental quality. **Website:** <http://www.bsyse.wsu.edu/awpositions.html>.

Dryland Farming Specialist: develop extension and applied research program for sustainable direct seeding systems incorporating diverse crop rotations. **Website:** <http://www.wsu.edu/~chr/2396.html>.

Food Microbiologist: initiate research/extension programs on microbial safety/quality of food products. **Website:** <http://av.fshn.wsu.edu/>.

Plant Pathologist: research the epidemiology/control of pre/post-harvest diseases of tree fruits. **Website:** <http://fruit.wsu.edu/pathologist.htm>.

Soil Fertility/Soil Quality Specialist: research/extension on plant/soil nutrient management. **Website:** http://css.wsu.edu/soil_scientist.htm.

Tree Fruit Entomologist: develop/implement control strategies for orchard pests. **Website:** http://entomology.wsu.edu/position/tree_fruit.html.

Vegetable Pathologist: develop research/extension programs on biology/management of diseases of WA vegetable seed crops. **Website:** <http://plantpath.wsu.edu/Docs/whatsnew.htm>.

Food Safety Communications Specialist: increase public's awareness and appreciation for food safety issues, research and extension work. **Website:** <http://caneews.wsu.edu/news.html>.

Weed Scientist: conduct applied weed management research program in irrigated crops. **Website:** http://css.wsu.edu/weed_scientist.htm.

For a position description of each position: Rebecca Armstrong, Washington State University, P.O. Box 646241, Pullman, WA 99164-6241. Telephone: 509-335-2822; e-mail: armstro@mail.wsu.edu. *Equal Employment Opportunity/Affirmative Action/ADA.*

BIOLOGY FACULTY. Possible faculty position to teach, in English, courses in general biology and a core curriculum course in scientific thinking. Ph.D. required. University teaching experience required. Two-year appointment begins September 2000. Renewal of the appointment depends upon institutional needs and/or the appointee's performance. The normal teaching load is three courses per semester. Salary and rank according to scale based on qualifications and professional experience. For expatriates, housing, annual round-trip air travel for appointee and accompanying family, plus schooling for up to two children are included. *In view of The American University in Cairo's protocol agreement with the Egyptian Government, which requires specific proportions of Egyptian, U.S., and third-country citizen faculty, at this time preference will be given to qualified applicants who are U.S. citizens.* Mail letter of application specifying Job Number BIO-1 with curriculum vitae and names and addresses of three references to: Dr. Earl (Tim) Sullivan, Provost, The American University in Cairo, 420 Fifth Avenue, Floor 3-S, New York, NY 10018-2729 before November 15, 1999. AUC is an Equal Opportunity Employer.

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fellowships

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AAAS Science + Technology Policy Fellowships 2000:01 >>>

What >>> Help shape science and technology policy in Washington, DC:

Contribute scientific and technical information and external perspectives to federal decisionmaking, 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 typically begin at \$48,000 to \$50,000.

Who >>> Applicants must have a Ph.D. in any physical, biological or social science, any field of engineering, or any relevant interdisciplinary field. Engineers with a master's degree and three years of post-degree experience also may apply. U.S. citizenship is required. Federal employees are not eligible. Approximately 40 fellowships are awarded each year, in eight different programs.

When >>> The fellowship year begins September 1, 2000. Fellows attend a two-week orientation before beginning their assignments, and participate in a yearlong seminar series on topics relevant to science, technology, and public policy. **Application deadline is January 15, 2000.**

Where >>> Fellows are placed in the Congress, the National Science Foundation, 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, 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 policymaking process of the federal government. The programs include:

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| + Congressional Science and Engineering Fellowship Program | + Science, Engineering, and Diplomacy Fellowship Program | + Technology Policy Science and Engineering Fellowship Program |
| + Roger Revelle Fellowship in Global Stewardship | + Risk Policy Science and Engineering Fellowship Program | + Environmental Science and Engineering Fellowship Program |
| | + Defense Policy Science and Engineering Fellowship Program | + AAAS/NSF Science and Engineering Fellowship Program |

How >>> For application instructions and further information: fellowships.aaas.org. AAAS Science and Engineering Fellowship Programs, 1200 New York Avenue, NW, Washington, DC 20005 • Phone 202/326-6700 • E-mail science_policy@aaas.org
Underrepresented minorities and persons with disabilities are encouraged to apply.

fellowships.aaas.org



Postdoctoral Research Positions Pulmonary Cell Biology

Two postdoctoral research positions are available in the Pulmonary Biology Program at National Jewish Medical and Research Center. One position will be to study the effects of ozone and NO₂ on the structure and function of surfactant proteins A and D, involving the protein structural analysis and use and construction of a variety of recombinant mutant forms of SP-A and SP-D. The second will measure surfactant protein secretion and production of inflammatory cytokines and growth factors by highly differentiated alveolar type II cells in vitro in response to ozone and NO₂.

Qualified candidates with a Ph.D. should refer to job #6-112 and send a letter of introduction, CV and the names and addresses of three references to:

National Jewish Medical and Research Center
Attn: Robert J. Mason, M.D.
and Dennis Voelker, Ph.D.
Department of Medicine
1400 Jackson St., B121
Denver, CO 80206
FAX: (303) 398-1775
e-mail: mccollumt@njc.org

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INVESTIGATOR - VIROLOGY

We are seeking a Ph.D. scientist who will be responsible for the development and characterization of infectious cell culture systems and cell-free replication systems of Hepatitis C virus. This position will join a large, multi-disciplinary team of scientists currently working on structure-based rational drug design (see recent Vertex publications: "Crystal Structure of the Hepatitis C Virus NS3 Protease Domain Complexed with a Synthetic NS4A Cofactor Peptide, Cell, Vol. 87, p. 343-355, 1996"; "Hepatitis C Virus NS3 RNA Helicase Domain with a Bound Oligonucleotide, Structure, Vol. 6, p. 89-100, 1998"; and "Structure-Based Mutagenesis Study of Hepatitis C Virus NS3 Helicase, J. Virol., Vol. 73, p. 8796-8807, 1999) against multiple HCV targets (reviewed in "Antiviral Research, Vol. 41, p. 65-84, 1999" and "Current Topics in Microbiology & Immunology, Vol. 242, p. 171-195, 1999"). The successful candidate will have broad training and experience in molecular biology, virology, protein purification and biochemical characterization, and cell biology. Prior experience in establishment and genetic analysis of cell-based or cell-free viral replication systems as well as the purification and characterization of recombinant and native proteins or protein complexes is preferred. A strong record of accomplishment and publications is a plus. 2+ years of post-doc experience is required although new Ph.D. graduates will be considered if the candidate has highly relevant experience for the position.

Please submit cover letter and resume on-line (preferred method), to:
www.vpharm.com/jobs, or to: Human Resources,
Vertex Pharmaceuticals, Job Code: SM: 320-2,
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As part of a project team, you will conduct research and analyze data required to answer business strategy and marketing questions for clients in the pharmaceutical, biotechnology, diagnostic, and medical device industries. You will also play a key role in the preparation of reports. The qualified candidate will possess a BA/BS and an advanced degree (MA/MS, MBA, PhD) in biological sciences or chemistry, strong analytical and oral/written communication skills, and the ability to function efficiently and independently in a rapidly changing environment. Experience in the healthcare industry and/or laboratory research preferred. Previous experience in a consulting firm a plus.

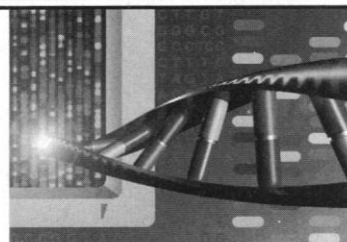
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Director of Biochemistry & HTS

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Both positions require a Ph.D. in Pharmacology, Physiology, Biochemistry, Cell Biology or other Biology discipline; 7-10 years' post-Ph.D. experience leading and/or participating in oncology drug discovery programs in a biotechnology or pharmaceutical company. A significant publication record is expected.

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TENURE-TRACK FACULTY POSITION MECHANISTIC ENZYMOLOGY

As part of an ongoing rebuilding program, the **Department of Biochemistry and Molecular Biology** invites applications to fill a faculty position in the area listed above. Although emphasis will be on junior faculty, we will consider applicants at all levels. For this position, we seek an individual whose research interests focus on the mechanisms of enzyme catalysis. The successful applicant will be expected to develop an independent research program using modern biochemical, molecular biological, and biophysical techniques to address a significant biological problem. Generous start-up packages and laboratory space are available to initiate the research program.

Applicants should have a doctoral degree and relevant postdoctoral experience. Demonstrated excellence in research and clear indications of an ability to initiate a strong research program are essential. Candidates should also be able to function effectively as a lecturer and in more informal teaching situations at all levels. Interested individuals should send a complete curriculum vitae, at least three letters of recommendation, a brief description of previous research experience and future research plans, and reprints of most significant work to: **Dr. Murray Deutscher, Faculty Search, University of Miami School of Medicine, P.O. Box 016129, Miami, FL 33101-6129.**

Review will begin immediately and will continue until the position is filled.

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DIRECTOR CANCER CARE CENTER

MetroHealth Medical Center invites applications and nominations for the position of Director, Cancer Care Center. Significant resources, including laboratory space, are committed to the development of a center of excellence that will provide leadership in treatment, prevention, education and research on cancer.

MetroHealth Medical Center is a 728 bed affiliated teaching hospital of Case Western Reserve University (CWRU). The Cancer Care Center includes faculty in all related disciplines, and supports active clinical, teaching and research programs. All faculty hold academic appointments at CWRU.

We are seeking a dynamic leader to plan and direct a major new initiative in cancer medicine and research. The successful candidate will provide leadership and further develop the clinical and research activities of the Cancer Care Center as one of the centers of excellence within the institution. He/she should have a track record of significant accomplishment and experience in cancer and should qualify for a senior faculty appointment at CWRU.

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**Cancer Care Center Search
c/o Barbara First
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2500 MetroHealth Drive
Cleveland, OH 44109-1998**

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IMMUNOLOGISTS

We are seeking Immunologists to support gene therapy and vaccine product development. Your responsibilities will include developing and utilizing cellular assays to define immune responses in human patients.

This position requires a B.S., M.S. or Ph.D. (or equivalent) in Biochemistry, Molecular Biology, Virology, Immunology or a related field. GMP/GLP experience is preferred. The successful candidates should have a working knowledge of standard biochemical, immunological, molecular biological and virological methods, and experience with assay development and validation. Candidates will be expected to solve problems independently and must possess excellent communication skills and the ability to work effectively in a team environment. **Respond to Ad# MW-A205, WP27T-4**

PHYSICAL BIOLOGIST

We are also seeking highly motivated individuals to work on the characterization, stabilization and delivery of proteins and nucleic acids in support of human vaccine development. The successful candidate will apply biochemical and biophysical principals to the formulation and delivery of protein and nucleic acid-based vaccines. The examination of physical, chemical and immunological integrity of vaccines during formulation processing and storage will be emphasized to design stable vaccine formulations for clinical use.

This position requires a Ph.D. in Biochemistry, Biophysical Chemistry or related fields with 0-5 years' postdoctoral experience. Preferred candidates will have demonstrated excellent academic performance and a strong, diverse research background in protein/nucleic acid bioanalytical or biophysical chemistry. A diverse scientific background that includes the characterization of proteins or nucleic acids with experience in pharmaceutical technology is desired but not essential. **Respond to Ad# D206, WP78A-31SHI**

Excellent salaries and benefits programs accompany these positions at our modern research facilities. Please send your curriculum vitae, with a cover letter and the names of 3 references, to: **Merck Research Laboratories, (indicate appropriate Ad#), P.O. Box 4, West Point, PA 19486**. Only candidates considered for interviews will receive responses. We are an Equal Opportunity Employer, M/F/D/V.



Faculty Positions in Microbial Functional Genomics— University of Minnesota

The Microbial Biochemistry and Biotechnology Division of the Department of Biochemistry, Molecular Biology and Biophysics (BMBB), in conjunction with the BioProcess Technology Institute, seeks to hire two faculty members in the area of microbial functional genomics. The University of Minnesota is broadly committed to genomics research throughout basic biological, engineering, health, and environmental sciences. For more details about these positions and links to related initiatives at the University, please consult: <http://biosci.cbs.umn.edu/BMBB/> and <http://biosci.cbs.umn.edu/bpti/>.

We are expanding the previously advertised search in which Assistant Professor candidates were sought. Now the search is also open to exceptional candidates at higher levels. The faculty candidates will conduct research in either or both computational and experimental aspects of microbial genomics. Examples of specific areas of microbial functional genomics to be considered are bioinformatics, elucidating biochemical function via genomic analysis, metabolic engineering, microbial biocatalysis, or evolutionary aspects of genomics. Successful candidates will be expected to develop strong, externally funded research programs and will contribute to the undergraduate, graduate and professional teaching programs of the department. The ability to interact collaboratively amongst a variety of disciplines will be strongly encouraged. All candidates must have a Ph.D. and/or M.D. degree. Desired experience includes at least two years of postdoctoral or equivalent experience, and a strong publication record. Successful candidates will receive a substantial start-up package to establish their laboratories and a salary commensurate with education and experience. Applications will start to be reviewed on November 1, 1999, but the search will remain open until the positions are filled. To apply, please send a *curriculum vitae*, statement of research interests, and three letters of recommendation that consider both research and teaching potential to: Professor Lawrence Wackett, Head of the Search Committee, c/o Mr. Jeff Schaub, University of Minnesota, Department of Biochemistry, Molecular Biology and Biophysics, 6-155 Jackson Hall, 321 Church Street, S.E., Minneapolis, MN 55455. An application sent by e-mail to schaub@biosci.cbs.umn.edu should be followed up by a hard copy sent to the address above.



Department of Neurobiology POSTDOCTORAL POSITIONS - La Jolla, California

- One position involves studying the cellular and molecular correlates of sleep and waking. Applicants should be at the Postdoctoral level with strong backgrounds in cell biology and biochemistry. Previous experience in sleep research not required. Salary commensurate with qualifications and experience. Applicants should send a short statement of research interests, a curriculum vitae, and the names of three references to: Attn: Giulio Tononi, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, California 92037; Email: tononi@nsi.edu.
- The second position involves studying the aspects of molecular, cellular and developmental neurobiology. Some major areas of interest are the control of neural differentiation, neurite outgrowth, synaptic function and molecules that affect these processes including transcription factors and adhesion molecules. Applicants should have a strong background in cellular and/or molecular biology. Salary commensurate with qualifications and experience. Applicants should send a short statement of research interests, a curriculum vitae, and the names of three references to: Attn: Dr. Gerald M. Edelman, Chairman, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, California 92037.

TSRI is an Affirmative Action/Equal Opportunity Employer.

www.scripps.edu



New York University

FACULTY POSITIONS DEPARTMENT OF BIOLOGY

The NYU Department of Biology is continuing a long-term program of expansion and development. A new tenure-track assistant/associate professorship is currently available (subject to final budgetary and administrative approval), in the area of prokaryotic molecular biology. Outstanding candidates in other fields will be considered. Candidates will be expected to develop active, externally funded research programs and to participate in the department's teaching activities at both the undergraduate and graduate levels. The department offers an outstanding research environment with a strong molecular focus, substantial start-up packages and modern laboratory facilities.

Application letter with curriculum vita and three letters of reference should be sent to:
**Chairman of the Search Committee,
Department of Biology, New York
University, 1009 Main Building, 100
Washington Square East, New York,
NY 10003.**

NYU encourages applications from women
and members of minority groups.

PLANT SYSTEMATIST

THE BOTANY DEPARTMENT, UNIVERSITY OF WISCONSIN-MADISON, invites applications for a tenure-track **ASSISTANT PROFESSOR** position in plant systematics to begin August, 2000. We seek an individual who is broadly trained in modern systematic techniques, with phylogenetic interests that complement and extend the systematic/evolutionary expertise of the Department (<http://www.wisc.edu/botany>). Research interests could focus on areas such as speciation, hybridization, plant-animal interactions, molecular cytogenetics, genome evolution, or evolution of development. Postdoctoral experience would be desirable. Teaching duties include introductory botany and a course to strengthen the department's systematics section.

Applicants should submit a curriculum vitae, a statement of research and teaching goals, selected reprints, and request three referees to send letters of recommendation to:

**Paul E. Berry • Systematics Search Committee
Botany Department • 132 Birge Hall
430 Lincoln Drive • Madison WI 53706
peberry@facstaff.wisc.edu**

To ensure competitive consideration, applications should be received by December 15, 1999. UW-Madison is an Equal Opportunity/Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.



Avigen, Inc. is a leader in the development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited & acquired diseases. Our continued growth has created the following openings in our Alameda, CA facility for experienced and self-motivated professionals to join our expanding R&D Team.

DIRECTOR OF CLINICAL/REGULATORY AFFAIRS

Exciting opportunity for the right individual to be responsible for representing Avigen's interests, both internally and externally, by establishing relationships with key leaders, contract clinical organizations, and other partners for leading the clinical development of AAV based gene therapy based products for the treatment of Hemophilia, which is currently under way, and other major diseases in the future.

This position will be responsible for directing and implementing all clinical development activities and strategies to achieve the clinical program objectives. Will design, compose, and implement approved clinical protocols and direct the assembly of clinical sections of regulatory submissions. Candidate will also manage the monitoring of clinical studies in progress ensuring they are conducted on time and appropriately.

Minimum requirements are a medical degree and 4+ years' previous clinical research experience. Must have a demonstrated record of Phase I, II or III clinical achievement as well as a history of successful relationships with investigators. Must be knowledgeable in FDA regulations and basic statistical procedures. Must have excellent verbal and written communication skills.

DIRECTOR OF DEVELOPMENT

Great opportunity for an experienced, energetic and motivated individual to provide scientific leadership, management and vision to product development efforts to commercialize AAV based gene therapy. The Director of Development will build and head a growing department comprising at least 15 scientists engaged in scale up, purification and analytical methods development for the commercial manufacture of AAV gene therapy vectors using mammalian cell culture.

The ideal candidate will hold a Ph.D. degree and will have a minimum of 10 years of relevant experience in biopharmaceutical process and methods development, including at least 5 years in a management or supervisory role. Experience in the development of pharmaceutical products derived from mammalian cell culture in a GMP environment is highly desirable and familiarity/experience with viral vector based gene therapy technology is a plus.

Candidates with direct experience in the manufacture of virus based products are particularly encouraged to apply. This position will provide the successful candidate with an excellent opportunity for personal and professional growth, as part of a company at the forefront of gene therapy research.

Candidates must have excellent communication skills. A demonstrated track record of productivity and a desire to work in a highly collaborative team environment are key requirements for this position.

DEVELOPMENT SCIENTISTS

We are seeking Ph.D. scientists to join our effort to translate AAV technology from the research bench and clinic to commercial scale manufacture. Several openings exist for scientists with experience in cell culture, scale up, mammalian cell fermentation, transfection and production of pharmaceutical grade plasmid DNA. We also seek analytical scientists with training in virologic methods including quantitative PCR to develop and qualify methods for process and product analysis. Industry experience and familiarity with GMP are preferred for these positions.

RESEARCH SCIENTISTS AND POSTDOCTORAL FELLOWS

As part of a planned expansion of our research program we have exciting opportunities for Ph.D. or M.D. scientists interested in helping us to identify and investigate new therapeutic approaches to human disease using AAV gene delivery technology. Applicants for Research Scientist should have a minimum of 3 years' postdoctoral experience. Applicants for Postdoctoral Fellow should hold a Ph.D. degree and have 0-3 years' experience.

ASSISTANT PRODUCTION MANAGER

Assistant Production Manager will be responsible for the manufacture of plasmid DNA for use in the production of clinical products and R&D; supervise/train Research Associates; optimize & scale-up of fermentation & mammalian cell culture processes; and purification of plasmid DNA.

Candidates must possess a Ph.D. in Biology, Chemical Engineering or related discipline, along with 2-3 years' experience with E. coli fermentation optimization & scale-up, plasmid DNA purification, and Agarose gel electrophoresis. Mammalian cell culture experience and familiarity with large scale fermentation, purification, and mammalian cultures a plus. GMP experience helpful.

We offer competitive salaries, benefits paid in full by the Company, stock options, 401(k), growth potential and an exciting opportunity to work with a dynamic team focused on exploring the impact of gene therapy on selected human diseases.

To apply, email/send/fax resume, **SPECIFYING POSITION OF INTEREST**, to: Avigen, Inc., Human Resources, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: sdelp@avigen.com, fax: (510) 748-7155. **EOE—Principals Only—NO CALLS.**



DEFINING SUCCESS in BIOTECHNOLOGY

Biogen, Inc., winner of the 1998 National Medal of Technology®, has established a unique record of success as one of the world's premier biopharmaceutical companies. Pioneering research by our scientists has led to the introduction of several important new medical therapies, including AVONEX® (Interferon beta-1a), the most prescribed therapy in the U.S. for relapsing forms of multiple sclerosis. We are staking our future growth on the development of our next generation of pharmaceutical products, five of which are currently being tested in human clinical trials. Today we are seeking the following committed professional to join our expanding team in Cambridge, Massachusetts.

SCIENTIST-PROTEIN CHEMISTRY

We are seeking an experienced protein chemist to assist in the development of protein-based therapeutics. The successful candidate will perform structure-activity studies on interferons, members of the TGF-beta family, and other proteins of therapeutic interest, working as part of a team to develop novel drugs. As part of this project team, efficient interaction with molecular biologists, analytical protein chemists, and members of product development, preclinical research, quality control, and regulatory groups will be essential to provide protein chemistry support and continuity throughout the life of the project. Extensive hands-on experience with the purification and characterization of proteins, and experience with diverse modification chemistries are absolutely essential. Demonstrated ability to relate biochemical characteristics of proteins and small peptides to their activity, and experience with the design and execution of cell or protein interaction based activity are desired. The ideal candidate will have a PhD with 3+ years post doc and/or industry experience.

Biogen has an outstanding record of leadership and accomplishment in the biotechnology field. We have one of the strongest financial profiles in the industry and our compensation and benefits package, including equity participation, is unmatched. We've created an environment designed to attract and retain the world's most accomplished talent, and we invite you to forward your resume to: Biogen, Inc., Attn: Human Resources, Source Code: RC-BP, 14 Cambridge Center, Cambridge, MA 02142; Fax: (617) 679-2546; Email: resumes@biogen.com (Source Code ONLY must appear in the subject line). Biogen is an Equal Opportunity Employer. No phone calls, please.

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TWO FACULTY POSITIONS

**Medicinal Chemistry and Pharmacognosy
College of Pharmacy
The Ohio State University**

The Division of Medicinal Chemistry and Pharmacognosy invites applications for a tenure-track position in Medicinal Chemistry and a tenure-track position in Natural Products and Pharmacognosy. Appointments will be made at a rank commensurate with background and experience.

Candidates must have a Ph.D. in the appropriate discipline. Applicants should have a fundamental interest in current aspects of drug design and discovery. The successful applicants will be expected to conduct an independent research program and actively participate in teaching at the undergraduate, professional, and graduate levels.

Applicants should submit curriculum vitae, copy of graduate transcripts, a concise description of proposed research, and at least three letters of reference to:

Dr. Robert W. Brueggemeier, Chair
Division of Medicinal Chemistry and Pharmacognosy
College of Pharmacy
The Ohio State University
500 West 12th Avenue
Columbus, OH 43210-1291

Applications will be processed as received and review of candidates will begin November 15, 1999. The search will continue until the positions are filled.

The Ohio State University is an equal opportunity educator and employer and specifically invites and encourages applications from women, underrepresented minorities and armed services veterans.

ANNOUNCEMENTS

NATIONAL ACADEMY OF SCIENCES COLLOQUIUM

AUDITORY NEUROSCIENCE:

DEVELOPMENT, TRANSDUCTION, AND INTEGRATION

19-21 MAY 2000

The Arnold and Mabel Beckman Center, Irvine, California
Organized by A. J. Hudspeth and Masakazu Konishi

This Colloquium is meant to showcase the progress in auditory neuroscience during its current period of unprecedented growth. The general themes to be addressed in this three-day meeting, and the investigators who have accepted invitations to speak, are as follows:

Development and Regeneration of the Inner Ear

Doris K. Wu, Julian Lewis, Donna M. Fekete, Richard A. Baird, Jennifer S. Stone, Jeffrey T. Corwin

Transduction, Adaptation, and Mechanical Amplification by Hair Cells

Geoffrey A. Manley, Mario A. Ruggero, Ian J. Russell, Jonathan F. Ashmore, Graeme Yates, David P. Corey

Coding in the Auditory Central Nervous System

Eric D. Young, Donata Oertel, Masakazu Konishi, Jon H. Kaas, Josef P. Rauschecker, Nobuo Suga

Coding and Plasticity in the Auditory Central Nervous System

Eric I. Knudsen, Gregg H. Recanzone, Andrew J. King, Allison J. Doupe, Xiaoqin Wang, Patricia Kuhl

Registration is \$150 for regular attendees and \$75 for graduate students. Space for the meeting is limited, so register early!

For additional information and registration materials, contact:

E-mail: epatte@nas.edu

Internet: www.nas.edu/nas/colloquia



Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and development of new anti-HIV strategies. Research projects include the role of host and viral proteins, such as the nucleocapsid protein, in reverse transcription and investigation of virus assembly. Studies are performed with model systems and HIV-infected cells. Applicants must have a strong background in molecular biology and nucleic acid biochemistry; virology background desirable. Less than five years of post-doctoral experience is required. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

Dr. Judith G. Levin, Chief
Section on Viral Gene Regulation
Laboratory of Molecular Genetics
NICHD, Building 6B, Room 216, NIH
Bethesda, MD 20892
Fax: (301) 496-0243
Email: judith_levin@nih.gov
Website: <http://dir.nichd.nih.gov/lmg/svgr/index.htm>

NIH is an Equal Opportunity Employer.



MANAGER PROTEIN PURIFICATION DEVELOPMENT

R&D Systems, Inc. a leading manufacturer of biological products, seeks a proven professional to manage a group of approximately 10 Scientists and Research Associates in the Protein Purification Development group in the development of cost-effective, robust and scalable processes for the purification of a large variety of recombinant proteins.

Req. Ph.D. in Biochemistry or related field with a min. of 7+ yrs. of relevant experience in the biotechnology or pharmaceutical industry, hands on experience in recombinant protein purification including laboratory and process scale chromatography, ultrafiltration, centrifugation, etc. Knowledge of protein chemistry and protein characterization methods. Excellent laboratory, organizational, communication, problem solving and people skills.

We offer a competitive salary & a comprehensive benefits package. Candidates wishing to be considered for this position please submit your curriculum vitae or resume to:

R & D Systems, Inc.
 Human Resources
 614 McKinley Place NE
 Minneapolis, MN 55413
www.hr@rmdsystems.com
 No Agencies Please
Equal Opportunity Employer



DEAN College of Basic Sciences LOUISIANA STATE UNIVERSITY

Louisiana State University and A&M College invites applications and nominations for the position of Dean, College of Basic Sciences. Louisiana State University and A&M College [www.lsu.edu] is designated by the Louisiana Board of Regents as the flagship institution of higher learning in the state of Louisiana. LSU has an enrollment of approximately 31,000 (26,000 undergraduate students and 5,000 graduate students) in 105 undergraduate degree areas, 76 masters, and 54 doctoral programs. LSU has been designated a Research I Institution by the Carnegie Foundation and is one of only 24 universities nationwide designated as both a land-grant and sea-grant university. The campus, noted for its botanical and architectural beauty, is located in Baton Rouge, the capital of Louisiana. Baton Rouge, a city of 400,000, is 70 miles northwest of New Orleans, in one of the most active industrial corridors in the United States.

The College of Basic Sciences

The College of Basic Sciences [www.chem.lsu.edu/~wwwbsc/] consists of five departments: Biological Sciences, Chemistry, Computer Science, Geology & Geophysics, and Physics & Astronomy. Four of these departments have been selected for special enhancement by the University. The College of Basic Sciences at LSU ranks first among the colleges in acquisition of federal research funds. The College also includes the Biodynamics Institute and the Center for Excellence in Palynology. The faculties of the College are also involved in research at the LSU Pennington Biomedical Research Center, the LSU Center for Advanced Microstructures and Devices (CAMD), and the National Science Foundation Laser Interferometer Gravitational-Wave Observatory (LIGO), all of which are located nearby.

Expectations

The College seeks dynamic, visionary leadership to facilitate the continued growth of the College within the University and, particularly, the enhancement of its national prominence.

Responsibilities

The Dean of the College reports to the Executive Vice Chancellor and Provost. The major responsibilities are: leadership in the development and implementation of the goals of the college including undergraduate and graduate education, policy formulation, long-range planning, and college organization; representation of the College in its working relationship within the University; preparation and submission of the college budget and administration of university personnel actions; representation of the College in professional matters external to the University; leadership in the recruitment, selection, promotion, retention, and development of students, staff, and faculty and leadership of the College development program.

Qualifications

1. Earned doctorate in basic sciences field and evidence of distinguished teaching, research and scholarly work sufficient to qualify for appointment as a tenured full professor.
2. Proven administrative skills in an academic or professional setting, including experience at the department head level or above.
3. Ability to develop collaborative ties with other universities, private industry, and national facilities.
4. Demonstrated ability in acquiring external resources through nationally competitive grants, contracts, and private fund raising.
5. Ability to foster interdisciplinary research and develop interdisciplinary programs.
6. Commitment to diversity in the recruitment and retention of students, faculty, and staff.
7. Strong interpersonal, communication, and decision-making abilities to interact effectively with a diverse public.
8. Commitment to shared governance and participatory faculty involvement in determining the goals and mission of the College.

Applications and Nominations

Individuals who wish to apply for the position are asked to submit to the search committee a letter of application, a current curriculum vitae, and the names, addresses, and telephone numbers of five references. Nominations are also solicited and should contain the name and address of the nominee. Review of applications will begin November 15, 1999, and will continue until the position is filled. Send all nominations and applications to:

College of Basic Sciences Dean's Search Committee
Attn: Jennifer Cargill, Dean, LSU Libraries
295 Middleton Library
Louisiana State University
Ref: #000048

Baton Rouge, LA 70803-3300

(225) 388-2217 (office); (225) 388-6825 (fax)

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UNIVERSITY OF
CALGARY

DEVELOPMENTAL BIOLOGIST

On the edge and leading the way.

The University of Calgary is a modern university that builds a spirit of discovery and inquiry while delivering a dynamic life and quality learning experience.

The **Genes & Development Research Group** and the **Department of Biochemistry & Molecular Biology** invite applications for a full-time academic position in the field of developmental biology. This position offers an excellent opportunity to develop an independent research program within a multidisciplinary environment. Current strengths include molecular, genetic and neurobiological approaches to the study of the development of model organisms, including *C. elegans*, *Drosophila*, *Xenopus*, chick and mouse. While duties include some teaching and graduate student supervision, 75% of time will be protected for research. Calgary is a beautiful and vibrant city (pop. 800,000), located within an hour of the Rocky Mountains and Banff National Park.

Qualifications include a Ph.D. and/or M.D., at least two years of postdoctoral experience and a proven record of excellence in research. The selected candidate is expected to compete successfully for salary support and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada; we anticipate that generous start up funds will be available to a qualified candidate. For more information about our research group, see <http://www.ucalgary.ca/gdrg/>

By November 26, 1999, please submit a curriculum vitae, a summary of research interests, two reprints of recent publications and arrange to have three letters of reference sent directly to:

Dr. Samuel Weiss, Chair

Genes & Development Research Group
Faculty of Medicine
3330 Hospital Drive NW
Calgary, Alberta, Canada T2N 4N1

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

www.ucalgary.ca



The **Department of Biochemistry and Molecular Biology** expects to fill several faculty positions in the next three to four years in areas that interface biology and chemistry. We now invite applications for a tenured position at the **ASSOCIATE/FULL PROFESSOR** level to begin September 2000, with a particular preference for individuals with research programs that complement our existing strength in plant molecular biology and biochemistry. Exceptionally qualified junior candidates will also be considered. Individuals working on fundamental questions in areas such as cell-cell communication, signal transduction, organellar biogenesis, nucleic acid and protein structure-function relationships are particularly encouraged to apply.

We seek individuals with an established record of significant accomplishment in research and creative scholarship. The successful candidate will have access to graduate students from several interdisciplinary graduate programs and will be expected to participate in teaching at the undergraduate and graduate levels.

Applicants should send a curriculum vitae, a description of research interests, and three letters of recommendation to **Professor Lila M. Gierasch, Head, Department of Biochemistry and Molecular Biology, LGRC 913, University of Massachusetts, Amherst, MA 01003-4505**. Review of applications will begin November 1, 1999 and continue until the position is filled.

Women and members of minority groups are encouraged to apply. AA/EOE

Providence Health System Making a Difference in Health

Providence Health System, the third largest employer in Oregon, is recognized as a quality leader in both health care and in the work environment. We offer the most advanced technology, competitive salaries and a generous flexible benefits program. We are currently recruiting for the following position:

Prostate Cancer Post-Doctoral

Robert W. Franz Cancer Center,

Earle A. Chiles Research Institute,

Providence Portland Medical Center, Portland, Oregon

Post-doctoral position available immediately to study differential gene expression in human prostate cancer toward the identification of antigens for the development of anti-cancer vaccines. Studies will employ novel paired prostate tumor and normal cell lines derived from patients with advanced prostate cancer to identify and characterize differentially expressed genes in human prostate tumor cells.

Candidates with a strong background in molecular biology with emphasis on methods of analyzing differential gene expression (e.g. DD-RT-PCR, SAGE, cDNA subtraction library generation) and experience with quantitative PCR should send a CV, cover letter describing research interest/experience and three references to: Robert Bright, PhD., Robert W. Franz Cancer Research Center, Providence Portland Medical Center, 4805 NE Glisan Street, Portland OR 97213. EOE



Providence Health System

A caring difference you can feel

RPI, a leader in the development of ribozyme-based pharmaceutical products, is currently seeking the following to join our Biochemistry group in Boulder, Colorado:

Biochemist

You will be responsible for high through put *in vitro* screening for ribozyme and ribozyme libraries activity. Qualifications include a degree in Biochemistry or related pharmaceutical sciences and 2+ years of relevant work experience. Strong background in molecular biology techniques is a must. Experience in cell culture, *in vitro* selection, and knowledge of modern analytical techniques (HPLC, UV, LIF-CGE) is a plus. Excellent communication skills and the ability to multitask in a fast-paced environment is required. Please refer to Job #009.

RPI offers a competitive salary and an excellent benefits package, including stock options. For consideration, send a curriculum vitae and the names of three references to:

Ribozyme Pharmaceuticals, Inc.,
2950 Wilderness Place, Job #009,
Boulder, CO 80301.
Fax: (303) 449-6995.
E-mail: jobs@rpi.com

Visit our Web site at: www.rpi.com

No phone calls please. We are an equal opportunity employer.





NATIONAL INSTITUTES OF HEALTH Associate Director for Extramural Activities

The National Institutes of Health (NIH) invites applications for the position of Associate Director for Extramural Activities (DEA), Division of Extramural Activities, National Institute of General Medical Sciences (NIGMS). This is a Civil Service position in the Senior Executive Service with a salary ranging from ES-1 to ES-6 level per annum (\$110,351 to \$125,900 per annum including locality pay.) A recruitment bonus of up to 25% of base pay may be available to a non-Federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently or previously in the career Senior Executive Service.

The Associate Director for Extramural Activities, NIGMS has primary responsibility for the effective operation of the DEA. Specific duties include: maintaining an overview of the scientific and financial status of the Institute's programs to produce effective advice to the Director in the planning, development, and scientific administration of Institute program areas; stimulating interactions and exchanges of information between program areas to promote understanding of Institute's long-range plans for program balance; interpreting the effects of proposals for long-term support on projected Institute plans; recommending budget allocations for the various programs; representing the Institute at Extramural Program Management Committee and other meetings dealing with proposed or revised grant policy programs and procedures; monitoring and acting as liaison with other institutes and centers for activities relating to grant application assignments, opportunities for collaborative activities, etc.; and advising staff about regulatory and legislative developments affecting program operations and giving guidance on operational policies to assure uniformity of management.

To obtain the full vacancy announcement with mandatory and desirable qualifications via the Internet type the following URL: <http://career-here.nih.gov> and click on "Current Vacancies" and enter the following job announcement number: NIGMS-99-0027. To receive by FAX, call (301)594-2953 or 1-800-728-JOBS and enter FAX ID: 3631. For additional information contact:

NIGMS Personnel Office, 45 Center Drive - MSC 6200, Bethesda, MD 20892-6200, (301)594-2749. TDD (301)402-6327

APPLICATIONS MUST BE POSTMARKED NO LATER THAN 11/12/99

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, GENDER, NATIONAL ORIGIN, POLITICAL AFFILIATION, MARITAL STATUS, DISABILITY, AGE, SEXUAL ORIENTATION OR MEMBERSHIP OR NON-MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

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ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY AND CANCER BIOLOGY

The Department of Pharmacology and Cancer Biology invites applicants to apply for a tenure-track faculty position in Neuropharmacology at the Assistant Professor level. Candidates whose research interests bridge at least two levels of organization (molecular, cellular, brain circuits, whole animal) are preferred. The successful candidate will join an interactive faculty with expertise in molecular biology, cell signaling, electrophysiology, nervous system development and neuroimaging. Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience and a strong record of research accomplishments. The successful candidate is expected to establish an extramurally-funded research program and to teach in appropriate undergraduate, graduate and/or medical school courses.

Send a curriculum vitae, a statement of research interests and the names of at least three references by December 1, 1999 to: **Chair, Neuropharmacology Search Committee, Department of Pharmacology and Cancer Biology, Box 3813, Duke University Medical Center, Durham, NC 27710.**

**Duke University
Medical Center**

Duke University Is An Equal Opportunity/Affirmative Action Employer

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF MENTAL HEALTH DIVISION OF EXTRAMURAL ACTIVITIES



The National Institutes of Health, National Institute of Mental Health, invites applications for an extramural program position located in the Division of Extramural Activities, Neuroscience and Behavioral Science Review Branch (NBSRB): **Health Scientist Administrator, GS-601-13/14**

The incumbent functions as a Scientific Review Administrator and is responsible for all aspects of planning, coordination, direction, and implementation of peer reviews of grant applications whose focus is in the area of neuroscience and the application of neuroscientific research to the study of mental health.

The NBSRB is responsible for the initial review for scientific merit of research and training grants, fellowship applications, cooperative agreement concepts and applications and for concept review of Research and Development contracts.

Applicants should have a Ph.D. (or equivalent training) and extensive working knowledge of research in the field of neuroscience as applied to the study of mental health or illness. A broad knowledge base of neuroscience and/or neuroscientific research approaches is essential as the incumbent will be responsible for planning and coordinating the review of grant applications and contracts covering a wide spectrum of neuroscientific techniques and approaches.

This is a GS-13/14 Civil Service position with a salary range of \$58,027 to \$89,142 per annum (1999 rate with locality pay), as well as full Federal benefits package.

A copy of the full text vacancy announcements is available via the World Wide Web: <http://www.nimh.nih.gov/orm/pmb/jobs.htm>. Interested candidates may contact Ms. Margot Darby, NIMH Personnel Management Branch, at (301) 443-9094. Applications will be accepted if postmarked by **November 12, 1999** and received within 5 working days.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

FACULTY POSITIONS UNIVERSITY HEALTH NETWORK/ UNIVERSITY OF TORONTO Arthritis Center of Excellence and

The Department of Immunology

The University of Toronto Arthritis Center of Excellence at the University Health Network invites applications for two research positions in a multidisciplinary group studying basic and clinical aspects of arthritis and autoimmunity. Candidates will be expected to develop or continue an active research program, in the context of a comprehensive research team, which encompasses molecular and genetic aspects of autoimmunity through to innovative therapeutics for autoimmune rheumatic diseases.

Academic appointment will be with the Department of Immunology or the Department of Medicine, University of Toronto and academic rank will be determined according to experience and qualifications. Candidates should have either a Ph.D., and M.D., or an equivalent degree.

Interested candidates should send their curriculum vitae and the names of three references to: **Arthritis Center of Excellence Administrative Office, FP 1-221, University Health Network, 399 Bathurst Street, Toronto, Ontario M5T 2S8 Canada. FAX: 416-603-4348.**

RESEARCH FELLOWSHIPS

The Arthritis Center of Excellence invites applications from individuals with a Ph.D. or M.D. or equivalent who seek research experience in the field of arthritis and autoimmunity. Subprograms in the Center include immunobiology, joint injury and disease, prognosis studies, and therapeutics. Applicants should send their curriculum vitae and the names of three references to the address above.

FACULTY POSITIONS IN BIOLOGICAL EDUCATION CONTINUATION OF SEARCHES

The Department of Biological Sciences, University of Northern Colorado is continuing searches for two tenure-track faculty positions in biological education, one at the **ASSISTANT PROFESSOR** rank and one at the **ASSISTANT/ASSOCIATE PROFESSOR** rank. For additional information contact **Dr. Curt M. Peterson, Telephone: 970-351-2923; e-mail: cmpeter@bentley.unco.edu** or visit these websites: <http://www.unco.edu/biology/biology.html> or <http://asweb.unco.edu/a&cs.htm>. Applicants should submit a curriculum vitae, official transcripts, three letters of reference, and statements of teaching philosophy and research experience/interests to: **Chair, Search and Screen Committee, Department of Biological Sciences, University of Northern Colorado, 501 20th Street, Greeley, CO 80639.** Review of applications is continuing until positions are filled. *UNC is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS IN EVOLUTION AND ECOLOGY

The Department of Biology and Biochemistry at the University of Houston invites applications for tenure-track faculty positions (**RANK OPEN**) in any area of ecology and evolutionary biology, including molecular evolution. Individuals working on either terrestrial or marine systems will be considered. The positions require a Ph.D. and postdoctoral experience. The faculty members will be expected to develop a nationally competitive research program and participate in graduate and undergraduate teaching. The Department has spacious laboratories and encourages research collaborations.

Submit curriculum vitae, a research plan, and have three letters of recommendation sent to: **Ecology and Evolution Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513.** Applications will be reviewed as they are received. *UH is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disability are encouraged to apply.*

POSITIONS OPEN

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

Florida Atlantic University
Charles E. Schmidt College of Science

Florida Atlantic University is reopening its search for a Chair of the Department of Biological Sciences in the Charles E. Schmidt College of Science. The department currently offers Bachelor's and Master's degrees in biological sciences and a Master's degree in environmental science. The Board of Regents has approved planning of a Doctoral degree in biology. In addition, the department will soon relocate to a fully renovated, state-of-the-art facility, of approximately 40,000 square feet.

The new Chair should have experience with successful operation of a Ph.D. program in the life sciences, and will play a key role in defining academic development of the department into the 21st century. Of particular importance will be creation of strong programmatic links to our new Department of Biomedical Science, nurturing of the new established Center for Molecular Biology and Biotechnology, and development of a Center for Ecological and Molecular Environmental Studies.

Candidates with records of externally funded research, excellence in teaching, directing Ph.D. and postdoctoral students, as well as administrative experience including budget management, development, and human resources experience, are encouraged to apply. The broad-ranging research interests of current biological sciences faculty can be found at **website: <http://www.fau.edu/divdept/biology>**. Applicants should send a curriculum vitae, statements of administrative experience, teaching and research interests, and names of three references to: **Dr. Peter Lutz, Chair, Department of Biological Sciences, Florida Atlantic University, P.O. Box 3091, Boca Raton, FL 33431.** The deadline for receipt of applications is December 3, 1999. Position dependent on budget feasibility.

Florida Atlantic University is a Member of the State University System of Florida. An Equal Opportunity/Access/Affirmative Action Institution.

Soka University of America (SUA), Aliso Viejo, California. Rare **FACULTY** opportunity to help build a new undergraduate liberal arts university. The successful candidate will join our faculty planning team one year before opening to participate in collaborative and multidisciplinary curriculum development. The position is open to applicants from **ALL RANKS**. SUA employs the single academic title, "Professor," and offers faculty a continuous appointment. Please see our **website: www.soka.edu** for further information about our institution and this opportunity. SUA is hiring in the following areas:

Mathematics. The successful candidate will develop, teach, and oversee the General Education Math program, teach University core courses, and research practica. Applicants should have an earned Doctorate and broad knowledge in the field, and should have at least three years of undergraduate teaching experience.

Physics. The successful candidate will teach introductory physics, University core courses, and research practica. Applicants should have an earned Doctorate with broad knowledge in the field, and undergraduate teaching experience; ability to teach undergraduate mathematics courses is highly desirable.

Biology. The successful candidate will develop and teach introductory biology, University core courses, and research practica. Applicants should have an earned Doctorate with broad knowledge in the field and a strong background in environmental science. A specialty in wetland habitats or marine biology is highly desirable. Undergraduate teaching experience is required. Applications for these positions should include cover letter, curriculum vitae, and names and contact information for three references. **Deadline: December 1, 1999. Send to: Gail Thomas, Dean of Faculty, Soka University of America, 85 Argonaut, Suite 200, Aliso Viejo, CA 92656.** SUA is an Equal Opportunity Employer.

POSITIONS OPEN

THREE FACULTY POSITIONS IN BIOLOGY

Juniata College (**website: www.juniata.edu**) invites applications from broadly trained Biologists for three **TENURE-TRACK** positions in its Biology Department made available by retirements and a major expansion of the department's focus in the areas of biochemistry, cell and molecular biology (BCMB). Construction of a new 75,000-square foot science building, projected to be complete for the 2002-2003 academic year, will house the BCMB faculty of the Biology Department as well as the Chemistry Department. The three positions are in the areas of (1) developmental biology, (2) genetics, and (3) neuroscience. Preference will be given to individuals utilizing nonmammalian models (vertebrate or invertebrate) in their research. We seek individuals with postdoctoral and teaching experience whose research programs apply molecular approaches to integrative problems at the organismal and/or population levels. Teaching responsibilities will include upper-division courses in the area of specialization and participation in a combined biology/chemistry freshman laboratory course as well as courses for non-majors. Candidates must be willing to mentor students in supervised independent research for which they will receive teaching credit. Start-up funds and dedicated research space will be provided. Applicants should submit one-page statements of (1) teaching experience, philosophy, and interests and (2) a description of their research program appropriate for engaging undergraduates in research at a liberal arts college, as well as (3) a curriculum vitae, (4) undergraduate and graduate academic transcripts, and (5) three letters of recommendation to: the area name of the position given above (e.g., **Genetics**), c/o Gail Leiby Ulrich, Director of Human Resources, Juniata College, Huntingdon, PA 16652. Review of the applications will begin November 8, 1999, and continue until the positions are filled. *Juniata College is committed to gender and cultural diversity and encourages applications from women and minorities.*

NEUROBIOLOGY CARNEGIE MELLON UNIVERSITY

The Department of Biological Sciences at Carnegie Mellon University seeks to fill the first of three **TENURE-TRACK FACULTY POSITIONS** as part of an expansion in the area of neurobiology in collaboration with the Center for the Neural Basis of Cognition (CNBC). At least one appointment each is expected in invertebrate and vertebrate neurobiology. The successful candidates are expected to develop independent research programs and to participate in the teaching of undergraduate and graduate students. Preference will be given to candidates who use interdisciplinary approaches including molecular and genetic methods in tractable model systems. Specific research interests can include problems in developmental neurobiology, neuronal function, learning, memory, or other areas of cognitive/functional neuroscience. The successful candidates will benefit from the strengths of the CNBC in neurophysiology, functional imaging, behavioral analysis, and computational modeling of the neural basis of cognition, from existing strengths of the Department of Biological Sciences in cellular and developmental biology, genetics/molecular biology, microscopy, biological detection, imaging and computing, and from the full breadth of the neuroscience community at Carnegie Mellon and the University of Pittsburgh. Applicants must have a Ph.D. and relevant postdoctoral experience. Please send curriculum vitae and a description of the proposed search program and have three letters of recommendation sent to: **Biological Sciences Search Committee, Carnegie Mellon University, Mellon Institute, Box L, 4400 Fifth Avenue, Pittsburgh, PA 15213.** Review of applications will begin on January 1, 2000, and continue until a suitable candidate is identified.

Our department is eager to diversify its faculty; we encourage women and minorities to apply. Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

CHEMISTS

Battelle, a world leader in research and technology development, is seeking 2 qualified Chemists to work in the Battelle Pharmaceutical Product Development operations in Columbus, OH. Both positions require excellent communication skills, expertise in MS Excel and Word, and the ability to work effectively in a team environment.

SR. RESEARCH SCIENTIST (Job Req. 275-99): Oversee day-to-day operation of an LC/MS/MS lab in a GLP environment including scheduling and project management; interact effectively with clients; review scientific data and produce reports; and train junior members to generate and interpret high quality MS data. Requires: Ph.D. in Chemistry or MS in Chemistry with minimum 3 years' experience; extensive experience in designing and interpreting LC/MS/MS and LC/MS analyses of chemicals in a wide variety of biological and chemical matrices and in operating LC/MS and LC/MS/MS equipment; the ability to troubleshoot difficult chromatographic separations; and the ability to direct the work of several junior team members.

SR. RESEARCHER SCIENTIST (Job Req. 601-99): Oversee the day-to-day GLP research of several small teams of analysts as well as interact effectively with clients and potential clients; review scientific data and prepare high quality reports; assist with marketing efforts; and train junior members to generate and interpret high quality analytical data. Requires: Ph.D. in Chemistry and minimum 3 years' experience or MS in Chemistry and minimum 6 years' experience; extensive experience in isolating, identifying and quantifying radiolabeled and nonradiolabeled compounds and metabolites using TLC, LC, GC, LSC, and SPE; and extensive experience with chromatographic method development and validation and the ability to troubleshoot difficult chromatographic separations.

Battelle offers a comprehensive package of salary and benefits as well as opportunities for professional challenge and development. If interested, please submit your resume to Battelle through our website at www.battelle.org/careers (job ref.#) or by postal mail to **Employment (job ref.#)**, 505 King Avenue, Columbus, OH 43201-2693. Battelle is an Affirmative Action/Equal Opportunity Employer M/F/D/V.

... Putting Technology To Work



Vanderbilt University Medical Center

Associate Director, Research Services

As part of a reorganization and growth of its research activities, Vanderbilt University Medical Center (VUMC) in Nashville, Tennessee has created the position of Associate Director, Research Services. The position reports to the Director of Biomedical Sciences, but will have frequent interactions with the Associate Vice Chancellor for Research and other institutional leaders as well. Areas of responsibilities and duties are primarily related to the Core Facilities. The position requires administrative experience in research and work with Federal Grants, excellent financial analysis and budgeting skills and experience in developing and implementing business plans. Candidates should possess a Bachelor of Science Degree; in addition a MBA is desirable. The position offers a competitive salary and excellent fringe benefits package.

Applicants should send their résumés in confidence to Paul Stark at Alexander, Wollman & Stark, 101 West Ave., Suite 305, Jenkintown, PA 19046. Fax: 215-517-8414.

*Vanderbilt is an equal employment
opportunity/affirmative action employer.*

nature

The Nature Publishing Group is pleased to announce the launch of a **major new innovative series of Review journals** and is now seeking:

3 Editors in the fields of:

Genetics

Neuroscience

Molecular Cell Biology

As the volume of scientific information continues to expand, it is becoming increasingly difficult for researchers to efficiently find the information they need in a form which is immediately useful. The Nature Publishing Group is creating a new family of journals, which will use cutting-edge technology and pioneering formats, to address this need in new and innovative ways. Our aim is to create the definitive resource for scientists in search of an authoritative and comprehensive overview of their field. These journals will be solely dedicated to sifting, highlighting, reviewing, and informing – placing important discoveries in a broad context accessible by a diverse group of readers.

We now invite applications for the position of Editor of each of these journals. These are very senior appointments within the company, each reporting directly to the Publisher, backed by a strong commitment to excellence and investment in resources. This is an exciting opportunity to join the world's leading scientific publishing company, to be involved with the launch of a major new series of journals and play a key role in shaping their future. The Editors will each lead a skilled and dedicated team and be responsible for developing the editorial content of their journals, both in print and online.

To meet these challenging tasks, the ideal candidate will have intellectual vision and strong leadership qualities. He or she will have a PhD in a relevant field, exceptional scientific judgement with a broad-based knowledge and understanding of their research community. This is the ideal opportunity for a candidate who is innovative, bold, creative and thoughtful, with imaginative ideas for the future development of their journal and their contribution to it. A key aspect of the job is liaising with the scientific community and attending international conferences and the successful candidate must, therefore, be dynamic and outgoing and have outstanding interpersonal skills. Excellent editing skills are required and editorial experience would be an advantage.

The positions are based in Nature's modern London offices and the terms and conditions are highly competitive, reflecting the critical importance and responsibilities of the role.

Candidates should clearly state for which position they are applying and applications should include a CV, discussion of relevant experience, and an indication of specific ambitions for the journal. Applications should be sent as soon as possible and no later than 29 October to:

The Publisher,
Nature Review Journals,
4 Crinan Street, London N1 9XW.
e-mail: reviewjournals@nature.com

POSITIONS OPEN

STRUCTURAL BIOLOGY DARTMOUTH COLLEGE

The Chemistry Department of Dartmouth College seeks an individual with a nationally recognized research program in structural biology to join its **FACULTY** at an appropriate rank. This will be the first of three hires in this area in chemistry and, along with recent hires in biochemistry and the newly created Department of Genetics, will form the core of a structural biology and biophysical chemistry group at Dartmouth. Preference will be given to individuals who study the structural properties of biological macromolecules to understand their function. Expertise with atomic resolution methods, such as NMR spectroscopy or X-ray crystallography, as well as other spectroscopic, physical, and computational methods, will be particularly attractive. Teaching will be expected in upper-level courses of our biophysical chemistry major, graduate courses in one's specialty, and introductory courses in either general or organic chemistry. Applicants should submit a curriculum vitae, a statement of their scientific accomplishments and future research directions, and a statement about their teaching experience and 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: **Professor Robert S. Cantor, Structural Biology Search Committee, Department of Chemistry, 6128 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564.** The Committee will begin to consider completed applications on October 31, 1999. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

Department of Cellular Biology and Anatomy and Feist-Weiller Cancer Center

This is a full-time tenure-track faculty position available July 1, 2000. The appointment will be at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, depending on qualifications. Applicants should have a Ph.D. and/or M.D., significant postdoctoral experience, and a record of excellent research accomplishment. We are seeking an outstanding individual to augment our departmental and institution-wide efforts in cancer research. Preference will be given to persons with research experience in the cell biology of solid tumors. Areas of interest include angiogenesis, genetics, gene therapy, immunology, cell signaling, and cellular adhesion/metastasis. The successful candidate will be expected to maintain an active, extramurally funded research program and to participate in teaching medical and graduate students. An attractive start-up package will be provided. Send curriculum vitae, a brief description of current and future research directions, and a description of areas of teaching expertise and experience to: **Dr. Stephen B. Pruett, Department of Cellular Biology and Anatomy, Louisiana State University Health Sciences Center in Shreveport, P.O. Box 33932, Shreveport, LA 71130.** *LSUHSC is an Affirmative Action Employer.*

Tenure-track **ASSISTANT PROFESSOR** in developmental neuroscience, Department of Neurobiology and Anatomy, University of Utah School of Medicine. Applicants must have a Ph.D. or M.D. or equivalent degree and postdoctoral research experience. The ability to develop a very strong independent research program in nervous system development is of paramount importance. A strong commitment to teaching medical and graduate students is also required. Send a curriculum vitae, a statement of research interests, and names and addresses of three references to: **Dr. T. N. Parks, Chair, Department of Neurobiology and Anatomy, University of Utah School of Medicine, 50 North Medical Drive, Salt Lake City, UT 84132.** E-mail: najobbapp@mailman.med.utah.edu. Deadline is January 14, 2000, or until a suitable candidate is found. Visit our department's website: <http://www-na.med.utah.edu>. *Equal Opportunity Employer/Affirmative Action. We strongly encourage applications from women and minorities.*

POSITIONS OPEN

CHAIR DEPARTMENT OF MICROBIOLOGY AND MOLECULAR CELL SCIENCES

The University of Memphis invites applications and nominations for the position of Chair of the Department of Microbiology and Molecular Cell Sciences. Minimum qualifications include a Ph.D. degree and academic qualifications commensurate with the academic rank of Professor of microbiology and molecular cell sciences. The candidate's area of research specialization may be in biochemistry, cell biology, developmental biology, microbiology, or molecular biology. We seek an individual with a distinguished record of performance in research, grantsmanship, and teaching with potential or demonstrated abilities to lead and manage a newly formed academic department. The candidate will be expected to participate in undergraduate and graduate education and must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties. The department offers a B.S. degree in microbiology and molecular cell sciences, and M.S. and Ph.D. degrees in biology with concentrations in biochemistry, microbiology, and molecular cell sciences. The department's website: <http://www.people.memphis.edu/~microcell/mmc.html>. Review of applications will begin December 1, 1999, and continue until the position is filled. Applicants should submit their curriculum vitae, a statement of addressing administrative philosophy and research interests, and at least three letters of recommendation to: **Search Committee Chair, Department of Microbiology and Molecular Cell Sciences, Campus Box 526041, University of Memphis, Memphis, TN 38152-6041.** *Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION IN STRUCTURAL BIOLOGY

The School of Biological Sciences, University of Missouri-Kansas City (UMKC), invites applications for a tenure-track faculty position (**ASSISTANT** or **ASSOCIATE PROFESSOR**) in X-ray crystallography. Consideration will be given to applicant research areas compatible with, but not limited to, existing lines of the School's research focus on molecular recognition, including macromolecular assembly. We seek an outstanding scholar with demonstrable achievements in research, teaching experience in an English-language institution, and exemplary communication and supervisory skills. Teaching activities will involve participation in at least two of the following disciplines: biophysics, biochemistry, molecular biology, cell biology. State-of-the-art research facilities, including membership in the SER-CAT at APS (Argonne), start-up funds, competitive salary, and fringe benefits are available. Review of applications will begin immediately and will continue until the position is filled. Submit curriculum vitae with summary of present and future research interests, and request that three letters of recommendation be forwarded to: **CBB Search Committee, Division of Cell Biology and Biophysics, School of Biological Sciences—BSB 403, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110-2499.**

Equal Opportunity/Affirmative Action Employer.

The Department of Psychology, University of California, Santa Barbara, invites applications for a tenure-track position (**ASSISTANT PROFESSOR**) in the area of vision science. For particulars see full advertisement at website: <http://www.psych.ucsb.edu/position/visionfac99.htm>. Deadline November 15, 1999. *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE/FULL PROFESSOR of molecular biology of muscle (cardiac, skeletal, or smooth) in the Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology (VCAPP), Washington State University seeks to fill a tenure-track position. See previous issue of *Science* for more details or e-mail: bmorton@vetmed.wsu.edu.

POSITIONS OPEN

TENURE-TRACK POSITION HUMAN CANCER GENETICS

The Laboratory of Immunobiology (LIB), Division of Basic Sciences, of the National Cancer Institute invites applications for a tenure-track position in human cancer genetics. The applicant should have the potential to develop an independent research program in human cancer genetics. The position will be supported by two Postdoctoral Fellows, ample laboratory space, and access to the unique clinical resources of the National Cancer Institute. Through collaborative working arrangements, the tenure-track candidate can study patients with rare inherited malignant disorders. Current laboratory Principal Investigators are **Berton Zbar** (genetics of human kidney cancer), **Michael I. Lerman** (genetics of human lung cancer), **Edward Leonard** (inflammation), and **Steven Hou** (signal transduction in *Drosophila*). This position is available for a Physician with a salary in the \$75,000 range to be commensurate with education and experience and the successful candidate may be eligible for medical school loan repayment. Reimbursement for relocation expenses up to \$2,500 may be authorized. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: **Ms. Teri Cecil, Building 576, Room 102, NCI-Frederick Cancer Research and Development Center, P.O. Box B, Frederick, MD 21702.** Telephone: 301-846-5402; FAX: 301-846-5397; e-mail: terceci@mail.ncifcrf.gov. *Candidates must be U.S. citizens or permanent residents. Applications must be received by December 1, 1999. The National Cancer Institute is an Equal Opportunity Employer.*

Roswell Park Cancer Institute, is seeking a **CHAIR** for the Department of Pharmacology and Therapeutics and Director of the Grace Cancer Drug Center. The candidate must hold a Ph.D. and/or M.D. degree with an established track record of peer-reviewed funding; have administrative experience in leading a large research group with a commitment to inter- and intradepartmental programmatic coordination. The major responsibility of the position is to promote the discovery and development of novel therapies for the treatment of cancer. The ideal candidate will have the exceptional vision necessary to continue development of a first-rate Department of Pharmacology and Therapeutics.

Roswell Park Cancer Institute is a free-standing, NCI Comprehensive Cancer Center that completed a \$250-million major modernization construction project in June of 1998. The Institute has six basic research departments, 11 clinical departments, and a vibrant Graduate Studies Division within the State University of New York at Buffalo providing a highly interactive environment for collaborative research.

Interested individuals should submit their curriculum vitae (on disk if possible), names of three references, and a one- or two-page summary of current research interest to:

Soldano Ferrone, M.D., Ph.D.
Chair, Search Committee for the Chair of
Pharmacology and Therapeutics
Department of Immunology
Roswell Park Cancer Institute
Elm and Carlton Street
Buffalo, NY 14263

RPCI is an Equal Opportunity Employer.

CELL BIOLOGIST. Department of Life/Earth Sciences, Otterbein College. **ASSISTANT PROFESSOR**, full-time tenure-track, beginning September 1, 2000. Ph.D. in cell biology with postdoctoral experience. Candidates should demonstrate effective teaching, the ability to conduct research involving undergraduates, and a strong commitment to the liberal arts. Deadline: November 5, 1999. Send letter of application with teaching philosophy and research interests, curriculum vitae, and three current letters of reference to: **Dr. Patricia A. Frick, Vice President of Academic Affairs, Otterbein College, One Otterbein, Westerville, OH 43081.** *Affirmative Action/Equal Opportunity Employer. Women/Minorities encouraged to apply.*

**UNIVERSITY OF CALIFORNIA,
LOS ANGELES
FACULTY POSITIONS IN
MOLECULAR, CELL AND
DEVELOPMENTAL BIOLOGY**

The Department of Molecular, Cell and Developmental Biology of UCLA's College of Letters and Science is engaged in a search for candidates to fill several positions at the levels of Assistant or Associate Professor in the broadly defined areas of Cell and Molecular Biology including Plant Biology, Genomics, Cell Signaling and Cell Cycle Regulation. Candidates are expected to develop a strong research program and to actively engage in the College's educational activities. We offer competitive start-up funds and salaries, and an outstanding collegial atmosphere conducive to independent, as well as collaborative, research.

Send curriculum vitae, a description of your research experience and future plans and three references to: MCDB Faculty Search, Department of MCD Biology, UCLA, 2203 Life Science Building, Los Angeles, CA 90095-1606. All applications and recommendation letters should be received by December 15, 1999.

Visit us at <http://www.lifesci.ucla.edu/mcdbio>, also see <http://www.uclaaccess.ucla.edu>

**FACULTY POSITIONS IN
MOLECULAR AND CELLULAR
CANCER BIOLOGY**

The Wistar Institute is the nation's oldest independent biomedical research institute and provides a collegial, stimulating environment for independent investigators. The Institute, located on the University of Pennsylvania campus, consists of 30 laboratories. We are seeking highly qualified candidates with a Ph.D., M.D., M.D-Ph.D. or equivalent degrees for positions at the Assistant and Associate Professor levels. Successful candidates will be expected to establish vigorous, independent research endeavors that complement existing research within one of the Institute's current programs in Molecular Genetics, Structural Biology, Tumor Biology, and Immunology.

Areas of interest for this recruitment include (but are not limited to):

- 1) Molecular biology/genetics of human brain tumors**
- 2) Developmental biology and models of human disease**
- 3) Tumor biology/physiology including mechanisms of vasculogenesis, angiogenesis**
- 4) Mechanisms of chromatin-induced gene regulation**
- 5) Biochemistry/biophysics of cell adhesion, migration and transmembrane signaling**

Highly competitive start-up support, salary, and fringe benefits will be offered in addition to access to state-of-the-art core facilities funded by our NCI-designated Basic Cancer Center.

Send curriculum vitae and the names of three references to:
**The Faculty Search Committee, c/o Human Resources
Dept., The Wistar Institute, 3601 Spruce Street,
Philadelphia, PA 19104. EOE/AA/M/F/D/V.**



**FACULTY POSITION IN
MOLECULAR EPIDEMIOLOGY**

A research scientist (assistant/associate professor level) position is currently available as part of the Cancer Susceptibility Program within our Cancer Center. This individual will join an interdisciplinary team of investigators focusing on the identification of mechanistic factors responsible for regulating cancer risk within individuals and specific populations.

The applicant will be expected to have or develop independent funded research focusing on molecular aspects of cancer susceptibility. Specific areas of interest include genetic polymorphisms in metabolism and repair systems, germ-line mutations, and gene-environment interactions as they relate to enhanced susceptibility to carcinogenesis. Applicants should have a Ph.D. and/or M.D. and a strong interest in human studies of cancer risk and prevention.

The American Health Foundation is one of ten NCI-designated basic science Cancer Centers and the only one primarily focused on the prevention of cancer. Submit curriculum vitae, statement of career goals, and the names of three references to: Dr. John Richie, American Health Foundation, Dept JR, One Dana Road, Valhalla, New York 10595. Fax 914-592-6317 or email, richie@nymc.edu

EEO M/F/D/V ADA



**Margaret and Herman Sokol Chair in Chemistry
for an Early-Career Scientist and Teacher**

Montclair State University is pleased to announce the establishment of the Margaret and Herman Sokol Chair in Chemistry for an outstanding early career scientist and teacher whose work is focused on the application of chemistry to the study of living systems. This Chair has been established through the generosity, and in recognition, of two of the university's most distinguished alumni. The late Dr. Herman Sokol, a research chemist, teacher and industrialist, was instrumental in the discovery of the antibiotic, tetracycline, and in the development of the basic process for its manufacture. Dr. Sokol served as president of the Bristol-Myers Company from 1976 until his retirement in 1981. Mrs. Sokol studied science at Montclair State and, after graduation, went on to teach mathematics and science in public schools.

The incumbent of the Margaret and Herman Sokol Chair in Chemistry will join the faculty of a strong American Chemical Society approved Department of Chemistry and Biochemistry, offering baccalaureate and master's degrees. The person selected for the Chair must demonstrate uncommon promise of engaging in a vigorous research program and of making lasting contributions in the applications of Chemistry to living systems. Equally important, the person selected for the Chair must demonstrate a deep commitment to teaching and mentoring students and to supporting their development as scientists.

The person selected for the Chair will be granted a tenure-track faculty appointment at an appropriate rank. Appointment to the Chair will be for a five-year term, dependent upon maintenance of good standing in the faculty appointment, and may be renewable. The Chair will provide support for two graduate students, and the incumbent will occupy a modern laboratory in the University's newly constructed Science Hall. The incumbent will be provided with start-up funds for his or her laboratory and with annual support for research activities and supplies.

Nominations or applications for consideration for appointment to the Margaret and Herman Sokol Chair in Chemistry should include a cover letter, a resume, letters of support and other appropriate materials. Review will begin on December 1, 1999 and will continue until the position is filled. Appointment to the Chair will be made effective September 1, 2000. All nominations, applications, and inquiries should be directed to:

Dean Vaughn Vandegrift
Sokol Chair Search Committee, V-19
College of Science and Mathematics
Montclair State University
Upper Montclair, New Jersey 07043
VandegriftV@mail.montclair.edu

Montclair State University is an Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION IN MICROBIOLOGY WASHINGTON STATE UNIVERSITY

The School of Molecular Biosciences at Washington State University invites applications for a tenure-track **ASSISTANT PROFESSOR** position. Applicants should have research interests and experience in the molecular basis of microbial pathogenesis. Candidates should have a Ph.D. in microbiology or related discipline, postdoctoral training, ability to communicate effectively with students and colleagues, and a record indicating outstanding abilities and potential in research and teaching. The successful candidate will be expected to develop and maintain an externally funded research program and participate in graduate and undergraduate teaching in the areas of general and pathogenic microbiology. Send letter of application, curriculum vitae, statement of current and long-term research interests, and arrange for three letters of reference addressing research potential, teaching and communication skills to be sent to: **Dr. Kathleen Postle, Search Committee Chair, School of Molecular Biosciences, Washington State University, P.O. Box 644233, Pullman, WA 99164-4233.** Review of completed applications will begin November 29, 1999, and continue until the position is filled. *Washington State University employs only U.S. citizens and lawfully authorized non-U.S. citizens. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, Vietnamese or disabled veterans, persons of disability, and/or persons age 40 or over are encouraged to apply.*

DIRECTOR, CORE FACILITY TRANSGENIC/KNOCKOUT MOUSE PROGRAM

The Department of Pharmacology, University of Illinois College of Medicine (Chicago), is seeking a Core Director to manage the transgenic/knockout mouse program. The ideal candidate should have demonstrated experience in production of knockout/transgenic mice including DNA/ES cell injection, maintenance of mouse colonies, and breeding. Candidates experienced in embryo freezing, ES culture, and generation of conditional knockouts (such as with Cre-lox P System) are preferred. Participation in research projects will be encouraged. The individual should have excellent organizational and communication skills. Ph.D. (preferred) or B.S. in a health science with three years of training and experience. All qualified candidates will be considered. Position available November 1, 1999. Salary will be highly competitive and commensurate with experience. Applications should be submitted to: **Search Committee (DCF001) Department of Pharmacology, University of Illinois at Chicago, 835 South Wolcott, Room E403, Chicago, IL 60612.** *UIC is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION

The Division of Transplantation at the University of Miami School of Medicine is seeking a Molecular Biologist/Biochemist for an entry-level research-track faculty position. This is an opportunity for an enthusiastic young scientist to apply his/her talents to ongoing studies on the effects of bone marrow cells in generating immunological tolerance in solid organ transplantation. Qualified applicants must possess a Ph.D. in molecular biology and have at least two years of relevant postdoctoral experience. We are especially interested in applicants with experience in recombinant eukaryotic gene transfer and expression. Additional experience in molecular and cellular immunology is highly desirable. For immediate consideration, interested individuals should send a curriculum vitae and the names of three references to:

**Julio Mesa, Administrator
Department of Surgery (R-440)
Division of Transplantation
University of Miami School of Medicine
P.O. Box 012440
Miami, FL 33101**

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

POSITIONS OPEN

FACULTY POSITIONS IN NEUROBIOLOGY Oregon Health Sciences University

As part of an ongoing expansion, which has added five full-time faculty members in the last four years, the Center for Research on Occupational and Environmental Toxicology (CROET) ([website: http://www.ohsu.edu/croet](http://www.ohsu.edu/croet)) invites applications for faculty positions at the equivalent of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. We seek individuals using molecular, cellular, animal, or human models to define the causal basis of neurological disease, including the role of environmental and genetics factors. The ability to develop and sustain a vigorous, independent research program is of paramount importance, as is a commitment to graduate and postdoctoral training. CROET, with facilities occupying 45,000 square feet in the CROET/Basic Science Building, is a multidisciplinary, neuroscience-focused institute dedicated to promoting health in the Oregon workplace. Its activities extend from laboratory-based, applied, and clinical research to community outreach and education. The neuroscience community at Oregon Health Sciences University (OHSU) includes nearly 100 faculty members representing great depth and diversity in molecular, cellular, systems-based, developmental, and behavioral research. Applicants should submit a curriculum vitae and a statement of research plans, and have three letters of reference sent to: **Faculty Search, Center for Research on Occupational and Environmental Toxicology, L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**

OHSU is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MOLECULAR AND CELLULAR BIOLOGY

The Department of Biochemistry at The University of Mississippi Medical Center ([website: http://fiona.umsmed.edu/~biochem/biochem.html](http://fiona.umsmed.edu/~biochem/biochem.html)) invites applications for a **TENURE-TRACK** position at any rank. The department is recruiting an applicant who will undertake research on basic mechanisms of disease, utilizing molecular or cellular biology approaches, with special emphasis on cancer. The department is well equipped and has strong research programs in chromatin structure, gene expression, ribosome biogenesis, chromosome replication, nucleic acid biophysics, bioenergetics, enzymology, and structural biology. The successful applicant is expected to establish or have an independent, funded research program and to participate in the training of medical, dental, and graduate students. Send curriculum vitae, a brief outline of future research plans, and the names of three references by January 15, 2000, to: **Dr. Mark Olson, Chair, Department of Biochemistry, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505.** *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

BEHAVIORAL ECOLOGIST. The Reed College Biology Department invites applications for a tenure-track **ASSISTANT PROFESSOR** to commence in the fall of 2000. A Ph.D. and postdoctoral experience are required. The successful candidate will establish a competitive laboratory/field research program for which start-up funds and release time are available. He/she will direct several year-long senior theses and teach an upper-division lecture/laboratory course in behavioral ecology and a team-taught, introductory biology course. We seek a Biologist committed to teaching and research in the undergraduate environment. Reed College is a selective liberal arts institution with a distinguished record of educational accomplishment and a strong commitment to scholarship ([website: http://web.reed.edu/](http://web.reed.edu/)). A curriculum vitae, statement of teaching and research interests, pertinent reprints, and three letters of reference should be sent by December 1, 1999, to: **Search Committee Chair, Biology Department, Reed College, Portland, OR 97202-8199.** *Reed College is an Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION, OPEN RANK. Mechanisms of disease resistance in plants, University of California, Riverside. The Department of Plant Pathology invites applications for an 11-month tenure/tenure-track faculty position (open rank, Assistant Professor through Full Professor levels), starting July 1, 2000. A Ph.D. in plant pathology or related field with strong molecular biology credentials and the proven ability to conduct innovative research are required. Applicants should be prepared to develop a research program on mechanisms of plant disease resistance at the molecular, biochemical, or cellular levels, with emphasis on developing innovative strategies for enhanced plant resistance. Development of a future research program involving soil-borne fungal pathogens is encouraged. Contributions to teaching at the graduate and undergraduate levels are also expected. Candidates for appointment at the Associate or Full Professor level should send a curriculum vitae and a statement of research interests and accomplishments. Candidates for appointment at the Assistant Professor level should send a curriculum vitae, a research proposal, and arrange for three letters of reference to be submitted. Applications should be sent to: **Professor Noel T. Keen, Department of Plant Pathology, Search Committee Chair, University of California, Riverside, CA 92521-0122.** Evaluation of applications will begin January 7, 2000, but the position will remain open until filled. Information about the department is available at [website: www.plantpathology.ucr.edu](http://www.plantpathology.ucr.edu). *The University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS MOLECULAR MECHANISMS OF INFECTIOUS DISEASES

The Department of Biology and Biochemistry at the University of Houston invites applications for **TENURE-TRACK** faculty positions at any rank using biochemical, cellular, or genetic approaches to investigate the molecular mechanisms of infectious disease. The individual will complement existing strengths in microbial pathogenesis, genetics, mechanistic enzymology, X-ray crystallography, and computer-based drug design. The positions require a Ph.D. and postdoctoral experience. Faculty are expected to develop nationally competitive research programs and participate in graduate and undergraduate teaching. The Department has spacious research laboratories and encourages research collaborations.

Submit curriculum vitae, a research plan, and have three letters of recommendation sent to: **Infectious Disease Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513.** Applications will be reviewed as they are received. *UH is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disability are encouraged to apply.*

TENURE-TRACK POSITIONS DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF TENNESSEE, MEMPHIS

The University of Tennessee, Memphis Department of Physiology is actively recruiting for two tenure-track faculty positions. Academic rank is dependent upon experience and qualifications. Candidates should have a Ph.D. or M.D. degree, a good track record in publications, and postdoctoral research experience with a background in cellular and/or molecular biology. The abilities to establish an independent research program in the areas of cardiovascular, gastrointestinal, developmental, endocrine, or epithelial physiology and to engage in teaching activities of the department are expected.

Applicants should send a curriculum vitae, copies of three representative publications, and the names of three references to: **Dr. Leonard R. Johnson, Chair, Department of Physiology, University of Tennessee, Memphis, 894 Union Avenue, Memphis, TN 38163.** These positions will remain open until filled. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Minorities and females are encouraged to apply.*



**FACULTY IN BIOENGINEERING
UNIVERSITY OF CALIFORNIA
SAN DIEGO**

The Department of Bioengineering of the University of California San Diego, invites applications for **TENURED OR TENURE-TRACK FACULTY POSITIONS** from individuals with expertise in Bioengineering. The successful applicant will be expected to establish a vigorous program of high-quality research that complements existing research activities in the Department in biomechanics, tissue engineering, molecular and cellular engineering, integrative analysis of the microvasculature, biotransport or related areas. The successful candidate will be responsible for teaching bioengineering courses at the undergraduate and graduate levels. There will be a close collaboration with the School of Medicine and qualified individuals may receive joint appointments. Salary is commensurate with qualifications based upon UC pay schedules. Please send a complete biography, samples of publications, and the names of five references to: **David A. Gough, Ph.D., Chair, Department of Bioengineering, University of California San Diego, La Jolla, CA 92093-0412.** Consideration of applicants will begin on November 15, 1999 and continue until the position is filled. *The University of California San Diego is an Affirmative Action/Equal Opportunity Employer.*

**BEHAVIORAL or EVOLUTIONARY
ECOLOGIST**

The Department of Organismic Biology, Ecology and Evolution at UCLA invites applications for an **OPEN RANK, TENURE-TRACK, FACULTY POSITION** in Behavioral or Evolutionary Ecology, broadly defined. The Department of OBEE has 23 faculty, with strengths ranging from cellular to evolutionary biology, including strong research programs in animal behavior and ecology. UCLA has outstanding academic support for faculty, including access to the UC Natural Reserve System, participation in the campus-wide Institute of the Environment, and attractive startup packages. Successful candidates are expected to develop a vigorous research program and to contribute to undergraduate and graduate teaching. Senior-level candidates also would be expected to actively participate in enhancing inter-departmental programs focusing on behavior. Junior-level candidates should have postdoctoral experience and a strong research record. No research area or taxonomic specialization is excluded, but a field-oriented research program combining theory and experimentation is desirable. Send CV, statements of research and teaching interests, and the names and addresses of three references to **Dr. Peter Nonacs, Chair, Behavioral Ecology Search, Department of Organismic Biology, Ecology and Evolution, University of California, Los Angeles, CA 90095-1606.** E-Mail: pnonacs@biology.ucla.edu. Consideration of applications will begin on November 15, 1999. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

**Associate Scientist,
Biochemistry/Cell Biology**

Merck & Co., Inc. is a leading research-driven pharmaceutical products and services company. Recently ranked by *Fortune* in the top 10 of "**America's Most Admired Companies**," we continually live up to our reputation with a truly unique work environment that fosters diversity and growth.

We are seeking an Associate Scientist with strong biochemistry/cell biology skills for our Animal Health Department. To be successful in this role, you will utilize your skills to characterize novel veterinary drug targets and to discover compounds that effectively interact with those targets. This will involve using a wide variety of in vitro laboratory techniques as well as some in vivo models to identify drug targets and evaluate their utility.

Qualifications include a B.S. or M.S. in Biochemistry, Cell Biology, Molecular Biology or a related biological science with a minimum of 2 years of basic research experience utilizing a variety of laboratory techniques including SDS-PAGE, Western blot analysis, cell culture, ELISA, RIA, PCR, protein expression/purification and HPLC. Experience working with laboratory animal species and computer skills are highly desirable. The candidate should be able to work well in a team environment. Good oral and written communication skills are required.

Merck is committed to providing employees with a stimulating work environment, as well as a competitive salary and benefits package. For consideration, please forward your resume and a cover letter, including salary requirements and Ad #104, to: **Merck & Co., Inc., PO Box 2000, RY 80-A3, Rahway, NJ 07065.** We are an Equal Opportunity Employer, M/F/D/V.



**REAL NEEDS
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OSI Pharmaceuticals, Inc. is an integrated drug discovery company with a mission to discover and develop novel pharmaceutical products. OSI has become a leader in the field of small molecule drug discovery by combining automated high-throughput screening using industry-pioneering robotics with sophisticated molecular biology, biochemistry and cell biology.

OSIP HAS OPENINGS AT THE TARRYTOWN, NY FACILITY IN THE FOLLOWING AREAS:

RESEARCH INVESTIGATOR

GPCR Drug Discovery Group

We're looking for a Biologist to elucidate and evaluate GPCR targets. Working within the Drug Discovery Group, you will explore cellular signaling pathways and design/implement secondary assay systems to analyze potential therapeutics. Must be a researcher with a Ph.D. in biological sciences; 2+ years' post-doctoral training and the ability to design experiments, and interpret results/data independently. Previous experience in drug discovery, signal transduction or GPCR research preferred.

RESEARCH ASSOCIATE/SR. RESEARCH ASSOCIATE

GPCR Drug Discovery Group

We have an excellent opportunity for a Biochemical Pharmacologist to join an interdisciplinary drug discovery team directed towards the identification of novel classes of therapeutic agents. Ideal candidates must possess a BS/MS qualification in Pharmacology and Biochemistry, as well as significant experience in receptor binding and second messenger system assays. A background with yeast and/or mammalian cell culture techniques, GPCR pharmacology and protein biochemistry is desirable.

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resume indicating position of interest, to: Director, Human Resources, OSI Pharmaceuticals, Inc., 106 Charles Lindbergh Boulevard, Uniondale, NY 11553; FAX: (516) 222-0114; e-mail: employment@osip.com. Equal Opportunity Employer M/F/D/V.

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POSITIONS OPEN

FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY, BIOPHYSICS, AND MOLECULAR BIOLOGY Iowa State University

The Department invites applications for a tenure-track **ASSISTANT PROFESSOR** position. We seek an outstanding scientist to develop an independent research program in areas of biochemistry, biophysics, or molecular biology. Space in a new research facility and a competitive start-up package will be available. A commitment to graduate and undergraduate education is essential. Additional information about our department and programs is available at [website: http://molebio.iastate.edu/bbhtml/homepage.htm](http://molebio.iastate.edu/bbhtml/homepage.htm).

Submit curriculum vitae; a description of research accomplishments and goals and teaching interests; and arrange to have three letters of recommendation sent to:

Faculty Search Committee
Department of Biochemistry, Biophysics, and
Molecular Biology
1210-A Molecular Biology Building
Iowa State University
Ames, IA 50011

Review of applications will begin November 19, 1999, and continue until the position is filled. *Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, sex, marital status, disability, or status as a U.S. Vietnam-era veteran.*

FACULTY POSITIONS DEPARTMENT OF NEUROBIOLOGY University of Pittsburgh School of Medicine

The Department of Neurobiology, University of Pittsburgh School of Medicine, is inviting applications for several **TENURE-TRACK** positions at all ranks. These positions are designed to complement current departmental strengths in cellular, developmental, and systems neurobiology. In this search, preference will be given to applicants investigating mechanisms of neuronal communication, especially involving the formation, function and plasticity of synapses, utilizing functional, biophysical, genetic, molecular, and/or structural biological approaches. Candidates must have a Ph.D. or M.D. with at least two years of postdoctoral experience, and will be expected to conduct an outstanding, independent research program. Competitive salary support and substantial start-up funds will be made available. Applicants should submit by December 31, 1999, a curriculum vitae, a description of present and future research goals, representative recent publications, and names and addresses of three references to: **Dr. Eric Frank, Chair, Faculty Search Committee, Department of Neurobiology, University of Pittsburgh School of Medicine, E1446 Biomedical Science Tower, Pittsburgh, PA 15261.**

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

The Allegheny College Department of Environmental Science invites applicants for a tenure-track **ASSISTANT PROFESSOR** position in regional environment and development issues. The successful candidate will demonstrate the ability to teach undergraduates and develop a scholarship program involving students. Candidates could have interests in areas such as (but not limited to) urban/industrial ecology, sustainable natural resource use, urban/regional planning, sustainable design. Applying GIS to environmental problem-solving is desirable. Interest in a program with an applied and experiential emphasis is required. A Ph.D. or appropriate terminal degree is necessary. Allegheny College is a highly selective liberal arts college. Send application letter, statements of teaching and research interests, and résumé by November 15, 1999, to: **Dr. Richard Bowden, Department of Environmental Science, Allegheny College, Meadville, PA 16335.** E-mail: rbowden@alleg.edu; website: <http://www.alleg.edu/academics/EnvSci/links.html>. *Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

INSECT MOLECULAR BIOLOGIST ASSISTANT PROFESSOR UNIVERSITY OF WISCONSIN-MADISON Department of Entomology

The Department of Entomology, University of Wisconsin-Madison is seeking applicants for a full-time, 12-month tenure-track faculty position (80 percent research, 20 percent instruction). Qualifications include a Ph.D. in biological sciences with postdoctoral research experience desirable. Duties include conducting basic research on insect molecular biology, and relating these advances to aspects of insect toxicology such as resistance to insecticides and allelochemicals, identification of novel toxicants and modes of action, and insect molecular genetics. Develop program in molecular aspects of insect physiology that interfaces with pest management programs in human health, agriculture, or forestry. Opportunities include participation in campus interdisciplinary programs. Teaching responsibilities include developing a course that integrates the principles of insect toxicology. The successful candidate will be expected to contribute to the Entomology Department general undergraduate and graduate instructional mission, including the training of graduate students. The applicant for this position must demonstrate high productivity and innovation in research and the ability to successfully compete for extramural funding in support of his/her research program.

A current curriculum vitae, complete undergraduate and graduate transcripts, a statement of professional and teaching interests, and three letters of recommendation should be sent to: **Carol Scheehle, Department Administrator, 237 Russell Laboratories, 1630 Linden Drive, Madison, WI 53706.** E-mail: scheehle@entomology.wisc.edu; website: <http://www.entomology.wisc.edu/>.

Closing date for applications: December 31, 1999.

The UW, an Equal Opportunity Employer, encourages women and minorities to apply and offers an excellent salary and benefits package. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Confidentiality of finalists cannot be guaranteed.

ASSISTANT PROFESSOR. Molecular or cellular physiology (MCPI). Tenure-track faculty position. Seeking exceptional faculty with strong potential for establishing extramurally funded research program in molecular or cellular physiology of higher organisms compatible with a research environment emphasizing molecular recognition and cellular response at its broadest definition. The successful candidate must have a congruent interest in teaching at the undergraduate and graduate levels. At least two years of postdoctoral experience and interests in related areas of scholarship (bioinformatics or environmental issues highly desirable) are expected.

ASSISTANT PROFESSOR. Nutritional/metabolic control of genetic regulation (MG99-2). The School of Biological Sciences invites applications for a tenure-track position at the Assistant Professor level. Qualifications include at least two years of postdoctoral experience. Preference will be given to candidates with expertise in the study of genetic control of metabolic regulation in any organism model except warm-blooded vertebrates. Other aspects of cell biology complementary to existing research will also be considered. The successful candidate is expected to develop an independent extramurally funded research program in this field and to participate in teaching at the graduate and undergraduate levels in courses adopted by the school.

We offer competitive salary and start-up packages, as well as state-of-the-art facilities (see [website: http://sgl.bls.umkc.edu](http://sgl.bls.umkc.edu)). Applications for both positions are due by November 2, 1999, but will be considered until the position is filled. Send curriculum vitae, statement of future research, and three letters of recommendation to: **Search Committee, Position (specify MCPI or MG99-2), School of Biological Sciences, University of Missouri-Kansas City, 5007 Rockhill Road, Room 114 BSB, Kansas City, MO 64110.**

An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

NEUROBIOLOGIST ASSISTANT PROFESSOR

Tenure-track opening for Neurobiologist in the Department of Biological Sciences at DePaul University starting September 2000. Successful candidate will be broadly trained in neurobiology with a strong commitment to undergraduate education. All subdisciplines and animal model systems (invertebrate or vertebrate) considered. Ph.D. required; postdoctoral and previous teaching experience preferred. Teaching responsibilities to include some combination of biology courses with laboratory for non-majors; co-teaching introductory biology sequence for majors; intermediate-level undergraduate course(s) in neurobiology; and graduate/advanced undergraduate course in candidate's area of expertise. Applicant should also exhibit willingness to participate in interdisciplinary programs. Modest research support and start-up funds available. The Department is housed in a new Biology and Environmental Sciences building that includes modern laboratory space and ample animal care facilities. Review of applications will begin December 15, 1999 and will continue until position is filled.

Please send curriculum vitae; three letters of reference; statement of teaching and research interests; statement of your educational philosophy; and list of equipment and supply needs with cost estimates to: **Neurobiology Search Committee, Department of Biological Sciences, DePaul University, 2325 North Clifton Avenue, Chicago, IL 60614.** Additional inquiries to above address, or FAX: 773-325-7596; e-mail: jdean@wppost.depaul.edu. *The Department of Biological Sciences seeks diversity in its faculty. We encourage applications from women, people of color, and the members of other historically underrepresented groups.*

DePaul University is committed to diversity and equality in education and employment.

TENURE-TRACK FACULTY MEMBER in medical oncology. Stanford University School of Medicine. We are searching for a physician scientist at the level of assistant or associate professor in the Division of Oncology, Department of Medicine. Candidates should have an M.D., or M.D.-Ph.D., be trained in the subspecialty of medical oncology, and be accomplished in research. They should be prepared to establish an independent laboratory program in cancer research. Applicants with expertise in molecular and cell biology, immunology, or genetics and in the translation of scientific methods and discoveries to problems in clinical oncology are especially encouraged. Salary support, laboratory space, and start-up funds are available for this position. Successful candidates will have demonstrated their ability to obtain peer-reviewed research funding. Participation in clinical care and in teaching will be expected. Please send curriculum vitae, a statement of career plans, and three names of references to: **Ronald Levy, M.D., Chief, Division of Oncology, Stanford University School of Medicine, SUMC M211, Stanford, CA 94305-5115.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

ASSISTANT PROFESSOR CHEMICAL ENGINEERING Massachusetts Institute of Technology

Applicants are sought for a junior-level, tenure-track faculty position in the Department of Chemical Engineering at the Massachusetts Institute of Technology. Applicants should have a Ph.D. in chemical engineering or a closely related field, should have demonstrated excellence in academic research, and should have a strong interest in teaching graduate and undergraduate chemical engineering students. Send résumé including the names of at least three references, graduate transcripts, and a description of research interests to: **Dr. Robert C. Armstrong, Head, Department of Chemical Engineering, Massachusetts Institute of Technology, 66-350, Cambridge, MA 02139.** Materials should be received by January 1, 2000.

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University of California—Santa Barbara Dean of Mathematical, Life, and Physical Sciences

The University of California at Santa Barbara invites nominations and applications for the position of Dean of Mathematical, Life, and Physical Sciences. We seek an individual with an outstanding record of scholarly achievement that is appropriate for appointment as a full Professor. We also seek an individual with vision and creative leadership abilities, demonstrated credentials in administration, a commitment to enhancing the diversity of the university community, and an established national and international reputation within the broader scientific community. The Division at UCSB has grown rapidly, in both the size and stature of our academic programs, and the successful applicant will be expected to provide the direction, inspiration and administrative ability to continue and expand upon these developments. In addition to the attributes mentioned above, important qualifications should include: a broad appreciation and perspective for all fields of the mathematical, life, and physical sciences; and a demonstrated ability to interface effectively with industrial, governmental and educational institutions, including philanthropic foundations.

The Division contains 13 academic departments and programs: Biochemistry and Molecular Biology; Chemistry; Ecology, Evolution and Marine Biology; Environmental Studies; Geography; Geological Sciences; Marine Science; Mathematics; Molecular, Cellular and Developmental Biology; Physics; Psychology; Speech and Hearing Sciences; and Statistics and Applied Probability. There are about 600 doctoral and masters students, and 4500 undergraduate students. Of the 227 faculty members, there are 19 members of the National Academy of Sciences, 2 National Medals of Science, 1 Nobel Laureate, and 32 NSF Young Investigators. Total annual extramural funding for research in the Division has grown to about \$50 million in 1998/99. Federally funded research centers include the Institute for Theoretical Physics, the National Center for Ecological Analysis and Synthesis, the National Center for Geographic Information and Analysis, and the Southern California Earthquake Center.

All inquiries, nominations and applications will be held in strictest confidence. Applications and nominations will be received until the position has been filled. However, the screening process will begin immediately, and applications are encouraged prior to December 1, 1999.

Nominations and expressions of interest should be submitted to:

Professor Sally Holbrook

Chair, Search Committee for the Dean of Mathematical, Life, and Physical Sciences

c/o Patricia Sheppard, Office of Academic Personnel, Cheadle Hall 4105

University of California, Santa Barbara

Santa Barbara, CA 93106

UCSB is an Equal Opportunity and Affirmative Action Employer and Educator.



Associate Editor

The American Association for the Advancement of Science seeks a highly motivated person to serve as Associate Editor (based in the San Francisco Bay area) for a new on-line venture for researchers in the biology of aging field. Responsibilities include selection of the research in the biology of aging field; editing of research material (language and content) for inclusion in the "Knowledge Environment" (KE); keeping abreast of recent advances in the aging and related fields; attending scientific meetings, interacting with the scientific advisory board and other aging researchers; interaction with the software production and SCIENCE editorial staffs. This is a full time regular position for a period of one year (renewable).

Qualifications: Ph.D. in molecular biology, molecular genetics, or biochemistry; 2 to 3 years post doc experience (working in the biology of aging or related subdisciplines-DNA repair, molecular characterization of Alzheimer's disease pathology, insulin signaling, cell cycle regulation); published papers in peer-reviewed journals; excellent verbal and written communication skills; good analytical skills. We offer a competitive salary and a good benefits package. Interested applicants may send cover letter and resume along salary requirements to: AAAS, Human Resources department, 1200 New York Avenue NW., Suite #100, Washington, DC 20005. EOE. Non-smoking work environment.



DIRECTOR and CEO

The Wistar Institute is seeking applications and nominations for the position of Director and CEO to succeed the retiring chief executive in September 2000.

Established as an independent institute in 1892, The Wistar Institute's mission is to foster state-of-the-art basic and applied research toward eradication of human disease. The Wistar Institute is internationally recognized for its contributions in the fields of cancer, infectious diseases, autoimmunity, and degenerative diseases and consists of 35 independent laboratories organized into four programmatic areas: Molecular Genetics, Structural Biology, Tumor Biology and Immunology. The Wistar Institute provides investigators a unique, highly collaborative collegial research environment, having strong academic ties to the University of Pennsylvania graduate programs with little administrative or teaching requirements.

We are seeking a Director with an outstanding scientific track record and international recognition with strong leadership and administrative skills and the vision and energy to guide and accelerate the ongoing expansion of the Institute's scientific programs in the new millennium. The Director will be expected to provide a vision for future research at the Institute that builds on its scientific strengths, collegial atmosphere, excellence in graduate education, and entrepreneurial tradition; sustain and enhance institutional programs, such as the Cancer Center Core Grant and NIH Training Grants; actively participate in fundraising from foundations and individual donors; enhance Wistar's strong heritage in technology transfer; cultivate effective relationships with the state and federal governments and other local institutions.

The Wistar Board of Managers is committed to providing an outstanding package commensurate with the new Director's responsibilities including recruitment funds and the construction of additional space and an endowed professorship. Please address nominations or applications to: **Director's Search Committee, c/o The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.** EOE/AA/M/F/D/V.



POSITIONS OPEN

The Institute for Cellular Therapeutics at the University of Louisville School of Medicine invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** faculty position. The selected candidate will have a Ph.D. or M.D., and be expected to transfer or develop a nationally recognized and independently funded research program that incorporates molecular approaches to immunology research. The primary responsibilities will be in research and research training. Special consideration will be given to applicants whose independent research plan encompasses molecular analyses of T-cell biology, including signaling, anergy, or tolerance induction, especially in the context of transplantation or models of autoimmunity.

The Institute for Cellular Therapeutics ([website: www.louisville.edu/org/ict](http://www.louisville.edu/org/ict)) is a new multidisciplinary research institute conducting basic and clinical research into the development and application of cellular therapy for a number of disease processes. Facilities are extensive and include flow cytometry, antibody production, and molecular biology cores. The Institute has joined a major expansion in basic research at the University of Louisville, Louisville, Kentucky, and occupies space in a newly constructed research building.

New research laboratories and competitive start-up packages are available. Applicants should send a letter outlining career research goals, curriculum vitae, and the names of three individuals who can be contacted for letters of reference to: **Search Committee, Institute for Cellular Therapeutics, University of Louisville School of Medicine, 570 South Preston Street, Louisville, KY 40202.** Applications should be received by January 1, 2000, for full consideration. *The University of Louisville is an Affirmative Action/Equal Opportunity Employer.*

The University of Oklahoma Biological Station (UOBS) ([website: www.ou.edu/uobs](http://www.ou.edu/uobs)) is seeking an Aquatic Ecologist/Limnologist at the **ASSISTANT PROFESSOR** level (tenure-track appointment in zoology) for autumn 2000. We encourage applications from individuals working in any area of aquatic ecology or limnology, but are especially interested in those whose research complements that of existing faculty; who can take advantage of the diversity of aquatic habitats in the region; and/or who use molecular approaches to address ecological or evolutionary questions. Candidates must have a Ph.D. at the time of appointment, and will be expected to develop an externally funded, nationally recognized research program, and teach one course per academic year. Review of applications will begin 30 November 1999, and will continue until position is filled. Send curriculum vitae, four selected reprints/preprints, statements of teaching and research interests, and four letters of recommendation to: **Dr. Gary Wellborn, Search Chair, The University of Oklahoma Biological Station, HC-71, Box 205, Kingston, OK 73439.** *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

PLANT ECOLOGIST. Tenure-track **ASSISTANT PROFESSOR** position beginning August 2000. Ph.D. required. Preference given to individuals working in community, ecosystem, or landscape ecology. Teaching responsibilities include general ecology, plant ecology, and a course in area of expertise. Candidates must have strong commitment to undergraduate education and are expected to establish research programs involving undergraduate and M.S. students. Applications should include curriculum vitae, transcripts, three letters of reference, and statements of teaching and research interests. Review of all materials will begin 30 November 1999 and will continue until filled. Send materials to: **Dr. Charles L. Pederson, Department of Biological Sciences, Eastern Illinois University, 600 Lincoln Avenue, Charleston, IL 61920.** For more details contact search chair (Telephone: 217-581-6239; e-mail: cfclpl@eiu.edu) or visit [website: www.eiu.edu/~biology](http://www.eiu.edu/~biology). *Eastern Illinois University is an Equal Opportunity/Equal Access/Affirmative Action Employer committed to achieving a diverse community.*

POSITIONS OPEN

TWO POSITIONS IN PHYSIOLOGICAL SCIENCE UCLA

The Department of Physiological Science invites applications for two tenure-track faculty positions at the level of **ASSISTANT PROFESSOR** (or under exceptional circumstances at a higher level). We are seeking individuals with established independent records of creative and significant research in any area of physiology, but with particular interest in the areas of sensory physiology, neuroendocrine regulation, or nonneural integrative physiology. Approaches that integrate multiple levels of molecular, cellular, systemic, and organismic function are preferred. The successful candidates will be expected to participate in undergraduate and graduate teaching and to establish a vigorous, externally funded research program. Minimum qualifications include a Ph.D. degree in a relevant discipline, postdoctoral experience, and the demonstrated ability to perform excellent research. Applicants should submit a curriculum vitae with a description of research plans, reprints or preprints of key publications, and have three letters of recommendation sent by November 30, 1999, to: **Search Committee Chair, Department of Physiological Science, College of Letters and Science, University of California, Los Angeles, P.O. Box 951606, Los Angeles, CA 90095-1606.**

ELON COLLEGE BIOLOGY DEPARTMENT

Applications are invited for a permanent, full-time position as **ASSISTANT PROFESSOR** of biology starting in August 2000. Applicants must have a Ph.D. degree in the biological sciences. Evidence of excellence in teaching and continuing scholarship is required. Significant position responsibilities include teaching cadaver-based human anatomy and human physiology involving computerized data acquisition. Other teaching responsibilities may include general biology for non-majors and an occasional upper-level course for biology majors. Interdisciplinary teaching and research are encouraged. This is an excellent opportunity to teach and do research in a new state-of-the-art facility with a talented and supportive group of colleagues. Applications will be reviewed beginning November 22, 1999, and will continue until the position is filled. Send letter of application, résumé, statements of teaching philosophy and research goals, copies of transcripts, and three letters of support to: **Dr. Rosalind Reichard, Dean of Sciences and Mathematics, 2163 Campus Box, Elon College, NC 27244.** *Elon College seeks to increase diversity among its faculty/staff. Minority applicants are strongly encouraged to apply. Elon College is an Equal Employment Opportunity Employer.*

COMPARATIVE ANIMAL PHYSIOLOGY

The Department of Biology, University of Miami, invites applications for a tenure-track position in comparative animal physiology at the level of **ASSISTANT PROFESSOR**. We seek a colleague addressing fundamental questions in animal physiology consistent with departmental strengths in behavior, ecology, evolutionary, and tropical biology. The successful applicant is expected to develop an externally funded research program and participate in teaching at graduate and undergraduate levels. Ph.D. required. Send curriculum vitae, appropriate reprints, summary of research and teaching interests, and have three letters of reference sent to: **Physiology Search, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124-0421.** Applications will be reviewed beginning 15 November 1999. *The University of Miami is an Equal Opportunity/Affirmative Action Employer and smoke/drug-free workplace. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR MAMMALIAN CNS FUNCTION Montana State University, Bozeman

The Department of Biology ([website: http://www.montana.edu/wwwbi](http://www.montana.edu/wwwbi)) seeks full-time, tenure-track position in neuroscience, with specialty in experimental and computational studies of the function of the mammalian or avian central nervous system. Join the Center for Computational Biology ([website: http://www.nervana.montana.edu/](http://www.nervana.montana.edu/)), which has state-of-the-art laboratory facilities for neurophysiology, neuroanatomy, and imaging; will also be a member of the newly established graduate training program in Complex Biological Systems ([website: http://cbs.montana.edu/](http://cbs.montana.edu/)), supported in part through an NSF IGERT training grant. Will have access to an excellent laboratory animal facility contiguous with his/her research laboratory space, capable of housing all vertebrate animals currently used for neurophysiological research, including primates. Required: Ph.D. (or other terminal degree) in an appropriate discipline in life sciences; record of excellence in teaching; established record of a nationally competitive, extramurally funded research program concerning the function and organization of the mammalian or avian central nervous system. Screening begins November 15, 1999. Available fall 2000. Applicants should send (1) a letter of application describing how their training and experience qualify them to fulfill the required and preferred qualifications above, (2) a curriculum vitae, (3) three representative publications, (4) three letters of reference to: **Kristie K. Rhodes, Neurobiology Search Assistant, P.O. Box 173490, Montana State University-Bozeman, Bozeman, MT 59717-3490. Telephone: 406-994-5178; FAX: 406-994-5122; e-mail: krhodes@montana.edu.** *ADA/Equal Opportunity/Affirmative Action/Veterans Preference.*

POSITION IN MOLECULAR GENETICS

The Department of Microbiology at the University of Manitoba has a tenure-track **ASSISTANT PROFESSOR** position beginning April 1, 2000, or mutually agreeable date. Minimum qualifications are a Ph.D. in molecular genetics or allied discipline, two years of postdoctoral experience and evidence of strong research potential, preferably in molecular genetics of bacteria or fungi. Duties include teaching, graduate supervision, and research. The salary range is \$42,524 to \$65,040. Department and University information can be obtained at [website: http://www.umanitoba.ca/](http://www.umanitoba.ca/). *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The closing date for applications is December 15, 1999. Applicants should send a curriculum vitae, a summary of research interests including a brief research proposal, and three letters of reference to: Dr. P. C. Loewen, Department of Microbiology, University of Manitoba, Winnipeg, Manitoba R3T 2N2 Canada. More information can be obtained by e-mail: peter_loewen@umanitoba.ca; Telephone: 204-474-8334.* *The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disability.*

FACULTY POSITION IN CELL BIOLOGY UNIVERSITY OF ROCHESTER DEPARTMENT OF BIOLOGY

Applicants are invited for a tenure-track position of **ASSISTANT/ASSOCIATE PROFESSOR** in the Department of Biology. The Department seeks individuals of outstanding potential in the area of prokaryotic or eukaryotic cell biology. Interviews will begin in late October 1999. Please send a curriculum vitae, summary of research and teaching interests, and request that three references be sent to:

**Chair, Cell Biology Search Committee
Department of Biology
University of Rochester
Rochester, NY 14627**

The University of Rochester is an Equal Opportunity Employer.

**DISCOVERY AND DEVELOPMENT
ARE OUR FOCUS:
GROWTH AND SUCCESS OUR RESULTS**

BioChem Pharma is an international biopharmaceutical company dedicated to research, development and commercialization of innovative products for the prevention and treatment of human diseases, with a focus in the fields of anti-infectives and anticancer. BioChem is the discoverer of lamivudine which is used for therapy of HIV (3TC, Efavir) and HBV (Epivir-HBV) infections. From its founding in 1986, BioChem has grown into one of the world's largest biopharmaceutical companies based on market capitalization. (3TC, Efavir, Epivir-HBV are trademarks of The Glaxo Wellcome Group of Companies.)

The Company recently opened a vaccine development facility known as BioChem Pharma, Inc., dedicated to the development of innovative vaccines using new technologies. To expand our dedicated and enthusiastic team, we are looking to fill the following position in Process and Research Development.

HEAD OF PILOT PLANT AND PROCESS ENGINEERING

This individual will work closely with other members of the staff to achieve our goal of designing and implementing manufacturing processes for vaccines to be used in human clinical studies. The primary responsibilities of this individual will be to oversee the personnel and operations of our pilot plant facility, process engineering, the production of cGMP vaccine lots, and the eventual transfer of processes to manufacturing. In addition, engineering issues regarding facilities, equipment, and instrumentation, from laboratory to pilot-plant scale, will fall within this area of responsibility.

This is a senior leadership position that requires an advanced degree in an engineering discipline and 5+ years of cGMP process engineering experience with biologic or biotech products. Experience with recombinant protein purification and formulation is a strong plus. Experience in project planning and management, budgeting, and personnel development is highly desirable. Strong communication skills and proven managerial experience are essential.

We offer a highly competitive compensation and benefits package. If you are seeking a real challenge, please forward your resume and salary history to: Lynne Lirette, Human Resources Manager, BioChem Pharma, Inc., 30 Bearfoot Road, Northborough, MA, 01532; fax: (508) 351-1687; e-mail: llirette@biochempharma-usa.com No Phone Calls please. We are an equal opportunity employer.

Please visit our website at: www.biochempharma.com



BIOCHEM PHARMA

**PROFESSOR OF MEDICINE
HARVARD MEDICAL SCHOOL AND
CHILDREN'S HOSPITAL**

Harvard Medical School and Children's Hospital are seeking a Professor with expertise in the genetics of cardiac disease to work in the Cardiovascular Division. The candidate should have a strong interest in the genetic and developmental basis of cardiovascular structure and function. Although training in cardiology is an asset, it is not required. Candidates should have a strong record of research, teaching and training accomplishments, and the ability to provide leadership and to work with other leaders in the area. Please submit a letter of application, curriculum vitae, a short description of research goals and a list of potential references to:

David E. Clapham MD, PhD

**Chair, Cardiovascular Search Committee
Children's Hospital**

**Room 1309 Enders Building, PO Box EN-306
Boston, MA 02115**

*Harvard Medical School is an Equal Opportunity/
Affirmative Action Employer.*

Women and minority candidates are particularly encouraged to apply.

HARVARD MEDICAL SCHOOL



**NYU School
of Medicine**



**TENURE-TRACK FACULTY AND POSTDOCTORAL
POSITIONS IN THE NEUROBIOLOGY OF
HUMAN NERVOUS SYSTEM DISEASE**

The Nathan Kline Institute (NKI) and the Department of Psychiatry at New York University School of Medicine have recently established a new Center for molecular neuroscience and clinical research on the causes and treatment of Alzheimer's disease (AD) and related dementias. NKI, located on a suburban campus 15 miles north of Manhattan, recently completed a major expansion, which includes newly constructed facilities for basic research, neuroimaging, clinical investigations, therapeutic trials, and services research.

Research interests of current Center faculty and selected other NKI investigators include: **A. Cataldo** - Regulation of endocytosis and lysosomal function; **A. Convit**, **M. J. de Leon** - Brain imaging in normal aging and AD; **K. Duff** - Transgenic models of neurodegenerative diseases; **M. Ehrlich** - Molecular regulation of neuronal differentiation; Mouse models of developmental disorders; **S. Gandy** - Vesicle biology of amyloid precursor protein (APP) and presenilins; **J. Helpert** - Advanced MR imaging of animal models; **A. Lajtha** - Protease function in aging and neurodegenerative disease; **K. Lim** - Neuroimaging and early AD detection; **N. Marks** - APP metabolism and apoptosis; **P. Mathews** - Presenilin trafficking and function; **P. Mohan** - Diagnostic markers of early AD; **R. Nixon** - Regulation of protease systems; Molecular control of cytoskeletal protein dynamics; **N. Pomara** - Nicotinic/muscarinic mechanisms in cognition; **M. Rao** - Gene targeting and cytoskeletal protein dynamics; **A. Yang** - Biology of neuronal cell death.

Selected Recent Publications:

Holcomb L, Gordon M, McGowan E, Yu X, Benkovic S, Jantzen P, Wright K, Saad I, Mueller R, Morgan D, Sanders S, Zehr C, O'Campo K, Hardy J, Prada C, Eckman C, Younkin S, Hsiao K, Duff K. (1998) Accelerated Alzheimer-type phenotype in transgenic mice carrying both mutant amyloid precursor protein and presenilin 1 transgenes. *Nature Med* 4:97.

Hardy J, Duff K, Gwinn-Hardy K, Perez-Tur J and Hutton M. (1998) Genetic dissection of Alzheimer's disease and related dementias: amyloid and its relationship to tau. *Nature Neurosci* 1:355-358.

Rao MV, Houseweart MK, Williamson TL, Crawford TO, Folmer J, Cleveland DW. (1998) Neurofilament-dependent radial growth of motor axons and axonal organization of neurofilaments does not require the neurofilament heavy subunit (NF-H) or its phosphorylation. *J Cell Biol* 143:171-181.

Yang AJ, Chandswangbhuvana D, Shu T, Henschen A, Glabe CG. (1999) Intracellular accumulation of insoluble, newly synthesized Abeta n-42 in amyloid precursor protein-transfected cells that have been treated with Abeta 1-42. *J Biol Chem* 274:20650-20656.

Xu H, Gouras GK, Greenfield JP, Vincent B, Naslund J, Mazarrelli L, Fried G, Jovanovic JN, Seeger M, Relkin NR, Liao F, Cheeler F, Buxbaum JD, Chait BT, Thinakaran G, Sisodia SS, Wang R, Greengard P, Gandy S. (1998) Estrogen reduces neuronal generation of Alzheimer beta-amyloid peptides. *Nature Med* 4:447-451.

Ivkovic S, Ehrlich ME. (1999) Expression of the striatal DARPP-32/ARPP-21 phenotype in GABAergic neurons requires neurotrophins *in vivo* and *in vitro*. *J Neurosci* 19:5409-5419.

JUNIOR AND SENIOR FACULTY POSITIONS Applications are invited for tenure track faculty positions with a dual appointment at NYU School of Medicine and the NKI. The successful candidate(s) will be interested in collaborative projects with other faculty in a multidisciplinary setting investigating the molecular pathogenesis of AD and other neuropsychiatric disorders and the development of novel therapeutics. Candidates with a PhD, MD, or both, should have a strong background and demonstrated accomplishment in genetic, molecular, or morphologic approaches to brain function.

POSTDOCTORAL POSITIONS The Program provides a rich environment for postdoctoral training. Support is provided by NIH grants and the New York State Office of Mental Health. Several openings currently exist for projects related to faculty interests listed above.

Applicants should send a curriculum vitae, a statement of research interests and a list of 3 references to **Ralph Nixon, PhD, MD, Nathan Kline Institute, 140 Old Orangeburg Road, Orangeburg, NY 10962. EOE/AA.**

POSITIONS OPEN

Molecular immunology faculty position. The Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine invites applications for a calendar-year tenure-track **ASSISTANT PROFESSOR** position. The appointee will be expected to develop an independent and extramurally funded research program focusing on the molecular aspects of the development of antibody and/or cell-mediated mechanisms of mucosal immunity, including the role of cytokines as immunomodulators. The appointee will also collaborate with other college faculty in an ongoing research program focused on vaccine development, and participate in the Virginia Tech Pharmaceutical Engineering Institute. The successful applicant will also be expected to take part in the instructional programs of the College as appropriate. Applicants must have the Ph.D. and postdoctoral experience. In addition, the D.V.M., M.D., or equivalent medical degree is preferred. Send a letter of application, description of research goals, curriculum vitae, and names of three references to: **Dr. Ludeman Eng, Head, Department of Biomedical Sciences and Pathobiology, College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061.** Review of applications will begin on November 1, 1999, but applications will be accepted until a suitable candidate is identified. *Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, people of color, and people with disability. Individuals with disability desiring accommodations in the application process should notify:* **Dr. Eng, at the address above, or Telephone: 540-231-4652; e-mail: laeng@vt.edu; Virginia Telecommunications Relay Service: 800-828-1120.**

FACULTY POSITION DEPARTMENT OF MOLECULAR BIOLOGY PRINCETON UNIVERSITY

The Department of Molecular Biology at Princeton University invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We are seeking an outstanding young Investigator in any area of molecular biology, but will give special consideration to applicants investigating questions in cell biology, biochemistry, and vertebrate developmental biology. The department has extensive facilities that include confocal and electron microscopy, FACS, oligonucleotide/peptide synthesis, and a transgenic mouse facility. Ph.D.'s or M.D.'s with postdoctoral research experience should send a curriculum vitae, short summary of research interests, and three letters of reference to: **Search Committee, c/o Gail Huber, Department of Molecular Biology, Princeton University, Princeton, NJ 08544-1014.** For full consideration applications should be received by January 1, 2000. For additional information about the department visit our website: www.molbio.princeton.edu.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION ASSISTANT PROFESSOR Vanderbilt University Departments of Surgery/Urology

Are now accepting applications for a tenure-track faculty position at the Assistant Professor level. This position is available for an individual with a Ph.D. degree and a commitment to basic science. Experience in molecular biology, genetics, and developmental biology is required. The primary research focus is pediatric urology/pediatric nephrology specifically in the area of normal and abnormal urinary tract development. The individual will be expected to develop independent research projects and funding. There will be opportunity for collaborations with other faculty in the Vanderbilt Developmental Biology Program and for a joint appointment in the Department of Cell Biology. The position comes with a generous space and start-up package. Please send inquiries, résumés, and the names of three references to: **Dr. John W. Brock, III, Vanderbilt University Medical Center, A-1302 Medical Center North, Nashville, TN 37232-2765.**

POSITIONS OPEN

E AND E ASSISTANT PROFESSOR—9834

The Department of Biological Sciences at the University of Illinois at Chicago seeks applications for a tenure-track Assistant Professor position in the area of evolutionary genetics or evolutionary ecology. We are looking for a candidate who investigates evolutionary processes and/or ecological phenomenon using quantitative or molecular genetics, or who uses theoretical or empirical approaches to evolutionary ecology. Preference will be given to individuals with postdoctoral experience, demonstrated research productivity, and compatibility with existing research in the Department. Candidates are expected to develop a strong, externally funded research program and to contribute to teaching at the undergraduate and graduate levels. Salary and start-up funds are highly competitive. Submit statement of teaching and research interests, curriculum vitae, reprints, and have three letters of recommendation sent to: **Dr. Lon Kaufman, Head, Department of Biological Sciences, University of Illinois at Chicago, 845 West Taylor, 3240 SES—m/c 066, Chicago, IL 60607.** Review of applications will begin November 15, 1999, and continue until a suitable candidate is found. Starting date is negotiable. For more information about the Department and faculty, visit the department's website: <http://www.uic.edu/bios>. *The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minority individuals.*

ASSISTANT PROFESSOR AVIAN EVOLUTIONARY BIOLOGY

Cornell Laboratory of Ornithology seeks applications for a tenure-track position emphasizing molecular approaches to population genetics, speciation, or phylogenetics of birds, preferably with a field component. Must build an integrative, extramurally funded research program that interfaces with the Cornell Vertebrate Collections and other programs of the Laboratory of Ornithology (website: <http://birds.cornell.edu>), including bioacoustics, the Library of Natural Sounds, bird population studies, education, and citizen science. Will help design a new science building at the Laboratory, including molecular and teaching laboratories. Position carries full faculty appointment in the Department of Ecology and Evolutionary Biology, or another department to be negotiated. Will teach one undergraduate course or its equivalent annually in a subject related to vertebrate evolutionary biology, and will help Laboratory staff present evolutionary biology to the general public. Applicants should send curriculum vitae, representative publications, statement of research and teaching interests, and have three letters of reference sent to: **John W. Fitzpatrick, Director, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850.** Applications will be reviewed beginning on 15 November 1999.

RESEARCH ASSISTANT III

(99CM2956) Department of Psychiatry. Responsible for organizing, executing, and controlling bench laboratory work directed at elucidating fundamental mechanisms associated with the neuroendocrine control of food intake and body weight in obesity; develop/recommend policies, establish test controls, criteria, and research standards; prepare research papers; process/analyze research data, and train/coordinate the work of Technicians and other support personnel. Minimum qualifications: Master's degree in appropriate field or equivalent combination of education/experience and three years of related experience. The ideal candidate will have skills in database management, animal care, electron microscopy, immunohistochemistry, tissue culture, computer data analysis, data collection, and be proficient using Microsoft Excel/Word in a Windows environment. Résumés accepted until filled. Send résumés (noting control #) to: **Office of Employment Services, University of Cincinnati, P.O. Box 210117, Cincinnati, OH 45221-0117.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR BIOINFORMATICS AND COMPUTATIONAL BIOLOGY Harvard Medical School

As part of a campuswide initiative, Harvard Medical School is establishing two new faculty positions at the Assistant or Associate Professor level, in the area of bioinformatics or computational biology. The appointing department will be the Biological Chemistry and Molecular Pharmacology Department. Qualifications include a strong potential for imaginative research in the areas of bioinformatics, genetic epidemiology, computational functional genomics, biological network modeling, and/or computational research in chemical biology. These positions offer remarkable scholarly and scientific resources for independent research and collaborations as well as the opportunity to teach graduate and medical students with a strong interest in modern bioinformatics research.

Applicants should submit a curriculum vitae, bibliography, a brief (limit of 500 words) description of research interests, and arrange to have four letters of recommendation sent. These materials should be directed to:

**Professor Christopher T. Walsh
c/o Ms. Roberta Montgomery
BCMP, Harvard Medical School
240 Longwood Avenue, C-213
Boston, MA 02115-5730**

Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

ASSISTANT PROFESSOR NEUROBIOLOGY BARNARD COLLEGE

The Department of Biological Sciences at Barnard College, Columbia University is seeking a full-time, tenure-track Assistant Professor (starting August 2000) to participate in undergraduate teaching and establish an active research program. The successful applicant will use modern laboratory techniques to investigate neuronal functions that affect whole-animal physiology or behavior. Candidates should be broadly trained in biology. Teaching responsibilities include lecture and laboratory courses in neurobiology; an advanced course in area of specialty; and participation in the introductory courses for non-majors and/or majors. Ph.D. required; postdoctoral and prior teaching experience desirable.

Submit curriculum vitae with list of publications, statement of research and teaching experience and plans, three representative publications, and three letters of recommendation to: **Neurobiology Search Committee, Department of Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027.** Telephone: 212-854-2437. The department will begin reviewing applications November 29, 1999.

An Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

The Cellular Biology Section of the Laboratory of Viral Diseases, NIAID seeks a **STAFF SCIENTIST**. This is a renewable position with a five-year term. Candidates will have extensive expertise in histological and immunocytochemical techniques of live and fixed specimens, including tissue sectioning, confocal microscopy, video microscopy, cryoimmunoelectron microscopy, microinjection, and digital image processing. Preference will be given to individuals experienced with using a BioRad MRC 1024 confocal microscope. The successful candidate will be an integral member of a team of 12 scientists interested in the interaction of viruses with the immune system. Candidates must have a Doctoral degree or equivalent and at least three years of relevant postdoctoral experience. Applicants should send their curriculum vitae, bibliography, and three letters of recommendation to: **Jonathan Yewdell M.D., Ph.D., Room 213, Building 4, 4 Center Drive, MSC 0440 NIH, Bethesda, MD 20892-0440.** E-mail: jyewdell@nih.gov.



Northwestern University Department of Physiology

The Department of Physiology at Northwestern University Medical School announces a search for a new tenure-track faculty member. Faculty rank and salary for this full-time appointment are open. Outstanding candidates employing innovative cellular or molecular approaches to understanding brain function that expand the existing departmental strengths are encouraged to apply. Successful candidates holding a Ph.D. or M.D. degree are expected to establish an independently funded research program as well as interact with members of the neuroscience community. In addition, participation in graduate and medical student teaching is expected.

This recruitment is part of a growing commitment to neurosciences at Northwestern University Medical School. Additional information about the Department of Physiology and the Northwestern University Institute for Neurosciences can be found on our Web pages (<http://dept-www.physio.nwu.edu/physiology/physiofr.htm>; <http://nuinfo.nwu.edu/nuin/>).

Please send a curriculum vitae, a description of research interests and three letters of reference by December 1, 1999 to:

D. James Surmeier, Ph.D.
Chair, Search Committee
Department of Physiology
Northwestern University Medical School
320 E. Superior St.
Chicago, IL 60611

We hope to fill this position by September 1, 2000 or earlier.

Northwestern University is an affirmative action, equal opportunity employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are especially encouraged to apply.

The Endowment for

SCHOLARS

in

Biomedical Research

at

The University of Texas Southwestern Medical Center

UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

SOUTHWESTERN

THE UNIVERSITY OF TEXAS
SOUTHWESTERN MEDICAL CENTER
AT DALLAS

UT Southwestern is an equal opportunity institution

Senior Scientists

Protein Engineering Job #212

We are seeking several individuals to join a group generating proteins with novel functions. Experience in the following areas a plus: Prokaryotic Expression, Directed Evolution, Protein Structure-Function, or Phage Display.

In situ Hybridization Job #213

We are looking for an individual with in situ hybridization and histology experience to work on the development of new products in this area.

RNA Methodology Job #217

We are always looking for talented individuals with experience related to any aspect of technologies related to RNA.

Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Senior Scientists have considerable freedom in developing their own research programs. They typically have a small research group, have NIH small business grants and write papers and patents. We feel that Ambion's diverse and interactive R&D group is unique in the industry and has been important to our continuing success.

Postdoctoral and Research Associate positions also available.

Ambion is a rapidly growing biotechnology company that focuses on applications related to RNA. It is located in Austin, the state capital, on the edge of the "Texas Hill Country," which provides rivers, lakes, scenic rolling hills and a comfortable climate. Austin is home to the main campus of the University of Texas and offers an exciting array of restaurants, music and cultural events. Austin is widely recognized as one of America's most livable cities.

We offer a stimulating work environment, competitive salary and benefits, 401(k) plan, employee stock option and bonus plans. *Equal Opportunity Employer*

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THE RNA COMPANY™

Send inquiries to:

Ambion, Inc. • 2130 Woodward St. • Austin, TX 78744-1832 •
tel(512)651-0200 • fax(512)651-0201 • email: resumes@ambion.com

SCRIPPS INSTITUTION OF OCEANOGRAPHY CENTER FOR ATMOSPHERIC SCIENCES

ASSISTANT OR ASSOCIATE RESEARCH SCIENTIST— ATMOSPHERIC SCIENCES

The Center for Atmospheric Sciences of Scripps Institution of Oceanography invites applications for an Assistant or Associate Research Scientist whose research interests are in the atmospheric sciences with emphasis in climate research. Research area may include the use of satellite observations for understanding topics such as clouds, aerosols, atmospheric dynamics or surface processes. Applicants should have a Ph.D. in Atmospheric Sciences, Oceanography, Physics or Space Physics, and a strong background in at least one of the following areas: radiative transfer, cloud physics, aerosol physics or atmospheric transport/dynamics.

The research appointments parallel University of California faculty appointments, but are without formal teaching requirements. In this career track position, SIO will provide base salary support of 25% for the Associate Research rank and 50% upon promotion to Full Research as a supplement to extramural support obtained by the candidate, subject to the availability of institutional funds. The successful candidate will be expected to establish an extramurally funded research program and to involve SIO graduate students. Rank and salary is commensurate with experience and based on the University of California salary scales.

Closing date is December 1, 1999. Interested candidates should send a cover letter, curriculum vitae, a list of three (3) references, immigration status and a brief statement of research interest to:

Dan Lubin, Chair of the Search Committee
Center for Atmospheric Sciences
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive—Mail Code 0221
La Jolla, CA 92093-0221

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

POSITIONS OPEN

FACULTY POSITION COMPARATIVE VERTEBRATE ENDOCRINOLOGIST

The Department of Zoology at the University of Toronto invites applications for a tenure-track position in comparative vertebrate endocrinology at either the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, effective July 1, 2000. The successful candidate will be expected to develop a vigorous, externally funded research program, train graduate students, participate in departmental teaching at both the graduate and undergraduate levels, and collaborate with colleagues in evolutionary biology, molecular biology, ecology, and physiology. Applicants should submit a curriculum vitae, copies of up to four recent publications, a statement of present and projected research and teaching interests not to exceed three pages, and arrange for three letters of reference to be forwarded by the closing date of 3 December, 1999.

Applications should be sent to: **Professor F. Michael Barrett, Chair, Comparative Vertebrate Endocrinology Search Committee, Department of Zoology, University of Toronto, 25 Harbord Street, Toronto, Ontario M5S 3G5 Canada.**

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

ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGICAL CHEMISTRY AND MOLECULAR PHARMACOLOGY Harvard Medical School

The Department of Biological Chemistry and Molecular Pharmacology (BCMP) invites applications for a tenure-track position at the Assistant Professor level. We seek individuals in the area of structural biology with focus on NMR spectroscopy of biological macromolecules. The Department has developed a strong and vibrant program in structure biology, and the successful candidate will enjoy the possibility of interacting with members of the entire Harvard Medical School research community.

Applicants should submit, by November 1, 1999, a curriculum vitae, bibliography, a brief statement of research plans, and arrange for four letters of recommendation to be sent to:

**Professor Gerhard Wagner
c/o Roberta Montgomery
Harvard Medical School
BCMP, C1-213
240 Longwood Avenue
Boston, MA 02115-5730**

Harvard University is an Equal Opportunity Employer/Affirmative Action Employer and encourages the applications of qualified women and minorities.

Animal Physiologist/Cell Biologist. The Department of Biology at Berry College invites applications for a tenure-track **ASSISTANT PROFESSOR** position to start fall 2000. We seek a broadly trained Physiologist to teach comparative animal physiology, a basic course in cell biology, and an upper-level course of her/his own design in cellular physiology. The successful candidate will also have a strong commitment to undergraduate education and will develop a research program that involves undergraduates. A Ph.D. is required. Please send a letter of application, curriculum vitae, graduate and undergraduate transcripts, a statement of research interests, and three letters of recommendation to: **Biology Search, Berry College, Mount Berry, GA 30149-0430.** Closing date is December 1, 1999. Please visit our **website: <http://www.berry.edu/academic/mans/>**. Berry College, located on 28,000 acres near Rome, Georgia, is an independent coeducational college with approximately 2,000 undergraduate and graduate students. The college's comprehensive curriculum stresses academic excellence, practical work experience, and an interdenominational religion-in-life program. *Equal Opportunity Employer.*

POSITIONS OPEN

Microbial ecology/microbiology. Kalamazoo College invites applications for a tenure-track position to begin in fall 2000 at the **ASSISTANT PROFESSOR** level. Ph.D. required. Postdoctoral experience preferred. Salary is competitive and commensurate with experience. Teaching responsibilities include participation in an introductory-level course, a microbiology course, and an upper-level course compatible with the candidate's interest and the curriculum. Kalamazoo College is a highly selective, nationally recognized liberal arts college that takes pride in its outstanding undergraduate science education program. A recent study ranked the College fifth among Baccalaureate institutions in the proportion of its graduates who ultimately receive Doctorates in the life sciences. Candidates are expected to have a high aptitude and interest in undergraduate teaching, a commitment to the liberal arts, and a desire to involve undergraduates in scholarship both inside and outside the classroom. Completed applications received by November 15, 1999, will receive full consideration with later applications reviewed as needed until the position is filled. Send letter of application, curriculum vitae, undergraduate and graduate transcripts (unofficial is acceptable), statement of teaching philosophy and research interests, and three letters of recommendation to: **Dr. David Evans, Chair, Department of Biology, 1200 Academy Street, Kalamazoo, MI 49006-3295.** Kalamazoo College encourages candidates who will contribute to the cultural diversity of the College to apply and to identify themselves if they wish. *Equal Opportunity Employer.*

MOLECULAR BIOLOGIST

St. Olaf College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** rank beginning September 2000. Applicants should have a strong interest in quality undergraduate teaching, be committed to liberal arts education, and show promise of continued scholarly activity and professional growth (including a research program in molecular biology that involves undergraduates). Candidates with interdisciplinary teaching and research interests are especially encouraged to apply. Ph.D. required; postdoctoral experience desired. Send a curriculum vitae, a statement of teaching philosophy, a summary of research interests and goals, copies of undergraduate and graduate transcripts, and three letters of reference (one of which should address teaching) to: **Dr. Kathleen Shea, Chair, Biology Department, St. Olaf College, Northfield, MN 55057-1098.** Review of completed applications will begin on October 25, 1999, and will continue until the position is filled. *A liberal arts college of the Lutheran Church (ELCA).* St. Olaf College (**website: <http://www.stolaf.edu>**) is an Affirmative Action/Equal Opportunity Employer and actively seeks diversity in its students, faculty, and staff.

The Institute of Oral and Craniofacial Molecular Biology at the School of Dentistry, Virginia Commonwealth University (VCU) in Richmond, Virginia is seeking applicants for two positions as **ASSISTANT** or **ASSOCIATE PROFESSORS**. Candidates must have training and expertise in molecular biology with emphasis in head and neck molecular oncology, or craniofacial molecular genetics. Ph.D. or equivalent degree and two or more years of productive postdoctoral experience required. Appointees will be expected to maintain extramurally supported research programs. Responsibilities will also include professional school and graduate teaching, and institutional service assignments. Candidates must be qualified to be appointed as affiliate faculty in a basic science department at VCU. Experience in a culturally diverse environment is highly preferred. Candidates must submit a statement of research interests and a curriculum vitae, and should arrange to have at least three letters of reference provided. Materials should be sent by December 31, 1999, to: **Dr. Francis J. Macrina, Virginia Commonwealth University, School of Dentistry, Box 980566, Richmond, VA 23298-0566.** *Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disability are encouraged to apply.*

POSITIONS OPEN

ICHTHYOLOGIST AND MICROBIAL PHYSIOLOGIST EASTERN MICHIGAN UNIVERSITY

Two tenure-track **ASSISTANT PROFESSORSHIPS** are available in the Biology Department beginning fall 2000. Ichthyologist (position # F2013): should be capable of teaching ichthyology and introductory biology and have field-oriented research program. Microbial Physiologist (position # F2014): should be capable of teaching courses in microbiology and recombinant DNA techniques and have research program in microbial physiology. Positions require Ph.D. plus evidence of teaching excellence and research productivity. Individuals hired will be expected to develop research programs capable of attracting external funding and involving undergraduate and graduate students. Preference given to candidates who complement the expertise and diversity of the department and can help teach any of the following undergraduate core courses: Genetics, Cellular and Molecular Biology, Ecology, and Evolution. The Department has 22 faculty with M.S. concentrations in ecology and organismal biology, molecular and cellular biology, physiology, and general biology. For more about faculty and programs see **website: <http://www.emich.edu/public/biology/bioweb.htm>**. Submit letter of interest, curriculum vitae, statement of teaching interests and philosophy, summary of research interests, three reprints, unofficial copies of transcripts, and three letters of reference by November 8, 1999, to: **Position F2013 or F2014 Search Committee, 202 Bowen, Eastern Michigan University, Ypsilanti, MI 48197.** For additional information contact: **Robert Neely, Department Head, Telephone: 734-487-4242.** *Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE POSITION. Department of Physiology East Carolina University School of Medicine. Postdoctoral Fellow sought to work on NIH-funded grant investigating the role of endothelin on extracellular matrix in cardiovascular disease. Doctoral degree in a biomedical field required. Ideal candidate will have experience in cell culture and molecular biology techniques and will have a working knowledge of cytokine signaling mechanisms.

Position is available beginning October 1, 1999. Review of applications will begin immediately and continue until position is filled. Interested applicants should forward a curriculum vitae, a summary of research experience and goals, and the names of at least two individuals willing to submit letters of reference to: **Laxmansa Katwa, Ph.D., Department of Physiology, East Carolina University School of Medicine, Brody Medical Sciences Building, Room 6N98, 600 Moye Boulevard, Greenville, NC 27858-4354.** E-mail: **lkatwa@brody.med.ecu.edu.** *East Carolina University is a member of the University of North Carolina System and is an Equal Opportunity/Affirmative Action Employer.*

CHIEF. Division of HIV Services. Harbor-UCLA Medical Center is seeking candidates for the Chief of the Division of HIV Services within the Department of Medicine. The Division is responsible for a population of approximately 1,000 HIV-positive patients at the Harbor-UCLA campus and a satellite clinic. The Division provides an active consultative service in the in-patient facility and maintains an active clinical research program, including participation in the ACTG and CCTG. The Division supports an outstanding infrastructure for clinical research. It also plays an active role in medical school, Residency, Fellowship, and continuing medical education programs, with strong collaboration between the Division of HIV Services and the Division of Infectious Diseases at Harbor-UCLA Medical Center. Please submit curriculum vitae and inquiries to: **John E. Edwards, Jr., M.D., Chief, Division of Infectious Diseases, Harbor-UCLA Medical Center, 1124 West Carson Street, Torrance, CA 90502.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH AWARDS. The National Research Council (NRC) will offer competitive awards for postdoctoral research in the area of mathematical modeling of complex phenomena to be conducted at the Army Research Office, Research Triangle Park, NC. Competitive awards will be made for one year initially with the possibility of renewal for a total of three years maximum. Annual stipend is \$52,000 with support for relocation and professional travel, and health insurance.

Research is being conducted on the development and application of mathematical models of complex phenomena that are scaling, and therefore may be described using a fractional stochastic calculus. The phenomena to which this calculus will be applied share complexity, but are entirely different in their detailed mechanistic structure.

Applicants are sought for the following research topics:

- (1) the development of the fractional calculus to incorporate the response of fractional differential equations to random fluctuations;
- (2) the development of general analytical techniques for solving fractional partial differential equations;
- (3) the determination of the resonant structure in high frequency water wave fields due to their multi-modal nonlinear interactions; and
- (4) the identification and explanation of the long term memory in the fluctuations in human walking, the human heartbeat and other physiological phenomena, in terms of the underlying control processes.

Further information may be obtained by contacting Dr. Bruce J. West, Senior Research Scientist, Army Research Office, P. O. Box 12211, Research Triangle Park, NC 27709-2211; Tel: 919-549-4257; Fax: 919-549-4354; E-mail: westb@aro-emhl.army.mil

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by January 15 will be reviewed in the February competition, by April 15 in June and by August 15 in October. Application materials can be obtained from the NRC web site at national-academies.org/rap or by contacting the National Research Council, Associateship Programs (TJ2114/AU), 2101 Constitution Avenue NW, Washington, DC 20418; Tel: 202-334-2760; Fax: 202-334-2759; E-mail: rap@nas.edu

TENURE-TRACK MEDICAL ONCOLOGIST POSITION

The Oral and Pharyngeal Cancer Branch of the National Institute of Dental and Craniofacial Research is conducting a national search for a tenure-track Medical Oncologist. The Branch is focused on understanding the pathogenesis of oral and pharyngeal cancer and translating this information into improved diagnosis, treatment and prevention. The successful candidate will establish a clinical program to explore novel treatment modalities for cancers of the head and neck, including therapeutic strategies aimed to target cell cycle regulatory mechanisms and transforming signaling pathways. The successful candidate must show evidence for experience in the conduct of clinical trials with novel agents, and be committed to develop a clinical trials program translating laboratory-based studies into treatment of patients with cancer. Prior experience with or training in oral and craniofacial research is preferable.

Under the NIH Tenure Track Program, the position would be equivalent to the Assistant Professor level, and the selectee would be given up to six years to demonstrate his/her creativity and productivity as an independent scientist. Conversion to tenure would be subject to rigorous scientific review and endorsement by the NIDCR and NIH scientific leadership. Applicants must have a M.D., or M.D. D.D.S. degree, have a valid license in any state and be board certified or board eligible in Medical Oncology. A variety of employment mechanisms are available. Salary is commensurate with qualifications and experience.

Applicants may apply by submitting the following materials: A *curriculum vitae*, bibliography, and a brief statement of research objectives. Applicants should arrange for three letters of recommendation to be sent directly to Ms. Cohen.

Further information about the position and qualification requirements, including knowledge, skills and abilities required, may be obtained from: **Ms. Esther Cohen, Personnel Management Specialist, National Institute of Dental and Craniofacial Research, NIH, 31 Center Drive MSC2290, Room 2C39, Bethesda, MD 20892-2290; Phone 301-496-6971.**

Application materials must be postmarked and sent to Ms. Cohen by the closing date of November 8, 1999. The opening date is October 8, 1999. NIH is an EQUAL OPPORTUNITY EMPLOYER.

Stanford University Assistant Professor Cardiovascular Biomechanics

The Division of Biomechanical Engineering, in the Mechanical Engineering Department and the Division of Vascular Surgery, in the Department of Surgery of Stanford University seek applicants for a tenure track faculty position at the level of assistant professor. This is a joint position between the School of Engineering (primary affiliation) and the School of Medicine (secondary affiliation) at Stanford University.

The candidate will be expected to develop a multidisciplinary research program that bridges the School of Engineering and the School of Medicine. He/she will be expected to use computational and/or experimental approaches for the study of cardiovascular function. Applicants with experience in using medical imaging techniques in conjunction with computer modeling approaches are preferred. The candidate will be responsible for securing industry and government funding sources to support and conduct innovative research.

Teaching responsibilities will include a course sequence covering cardiovascular biofluid and biosolid mechanics, which is to be developed by the candidate. The supervision of engineering doctoral students, medical students, medical post-doctoral fellows, and academic advising of students at all levels is expected.

Stanford University is an equal opportunity employer and welcomes nominations of women and minority group members and applications from them. Applicants should submit a current resume, a list of publications, and three referee names by December 1, 1999 to ensure full consideration.

Applications, which will be accepted until the position is filled, should be mailed to:

Professor Thomas P. Andriacchi
Chairman, Search Committee
Biomechanical Engineering Division
Mechanical Engineering Department
Stanford University
Stanford, California 94305-3030
e-mail: tandriac@leland.stanford.edu

PROGRAMS

COUNCIL ON SCIENCE AND TECHNOLOGY POSTDOCTORAL TEACHING FELLOWS PROGRAM at PRINCETON UNIVERSITY

The Council on Science and Technology at Princeton University is seeking applicants for its Postdoctoral Teaching Fellows Program. The program is designed to provide from one to three years of stipend support to postdoctoral fellows who wish to obtain further training in both research and teaching. The fellows will be involved in curriculum development, instructional laboratory design and lecturing and will work closely with an experienced master teacher. In addition, the Fellow will conduct research in the laboratory of a Princeton University science or engineering faculty member. The goal of the program is to prepare candidates for careers in both research and teaching.

Eligible candidates should have a Ph.D. or equivalent post-baccalaureate degree in one of the physical and natural sciences, or engineering, be interested and have previous experience in undergraduate teaching at a U.S. university. Before applying, applicants must first identify a research mentor from among the Princeton University science and engineering faculty, and obtain his or her agreement to act as research sponsor. Candidates will be evaluated on the basis of their previous teaching and research accomplishments. The stipend will be commensurate with experience. Princeton University is an equal opportunity/affirmative action employer. Applications are currently being accepted for Fellows to begin at any time during the 2000-2001 academic year. Review of applications will begin January 1, 2000. Applications can be downloaded from the Council's Web Page (<http://www.princeton.edu/~stcweb/>) or requested from:

The Council on Science and Technology
123 Lewis Thomas Laboratory
Princeton University, Princeton, NJ 08544
Tel.: (609) 258-4316, FAX: (609) 258-3345
Email: stcweb@princeton.edu

POSITIONS OPEN

The Department of Psychiatry of the University of Pittsburgh School of Medicine/Western Psychiatric Institute and Clinic seeks a broadly trained **PH.D. STATISTICIAN** who will complement a team with interests in statistical genetics and psychiatric statistics. The applicant must have experience in statistical genetics, classification and clustering theory, and statistical simulations using higher-level programming languages and FORTRAN or C. Experience in statistical genetics, including genetic epidemiology and genome informatics, is required. The applicant should have a strong background in both theoretical and applied statistics; for the latter, extensive experience in statistics software (Splus, SAS, BMDP) on Windows NT and UNIX platforms is essential. Working knowledge in the following areas is a definite plus: relational databases, how to interface Splus with FORTRAN/C, system administration for UNIX workstations, and supercomputing. Applicants are encouraged to respond as quickly as possible to: **David J. Kupfer, M.D., Professor and Chair, Western Psychiatric Institute and Clinic, 3811 O'Hara Street, Pittsburgh, PA 15213.**

The University of Pittsburgh, as an educational institution and as an employer, does not discriminate on the basis of race, color, religion, ethnicity, national origin, age, sex, or marital, veteran, or disabled status. This commitment is made by the University and is in accordance with federal, state, and local laws and regulations.

ENDOWED CHAIR IN SCIENCE UNIVERSITY OF DALLAS

The University of Dallas seeks a dynamic Molecular Biologist or Biochemist for a newly funded Endowed Chair in science. The University has a modern, well-equipped, 50,000-square foot science building and is ranked by Peterson's as one of the top undergraduate programs in science and mathematics. The science departments have a record of external funding. Recent grants have been received from the National Science Foundation, the Mellon Foundation, and the Robert A. Welch Foundation. We are primarily looking for someone who will provide research opportunities for our undergraduates and direction and vision to the science programs at the University of Dallas. This person would also be responsible for teaching biochemistry or molecular biology. A Ph.D. is required along with a proven teaching and research record. Applicants should submit curriculum vitae, names of three references, and a statement describing the nature of their commitment to undergraduate teaching and research. These items should be submitted to: **Dr. Glen Thurow, Provost, University of Dallas, 1845 East Northgate Drive, Irving, TX 75062.** Review of applicants will begin on December 1, 1999. Additional information about this position and the University of Dallas can be found at **website: www.udallas.edu/chemdept/sciencechair.**

CELLULAR NEUROBIOLOGIST

Canisius College, an independent, coeducational, medium-sized institution of higher education conducted in the Catholic and Jesuit tradition, has a tenure-track opening for an **ASSISTANT PROFESSOR** in cellular neurobiology. The area of expertise is open; however, the candidate will complement, not duplicate, the existing expertise, which includes environmental physiology, behavioral neuroscience, immunology, physiology, endocrinology, and plant biochemistry/molecular biology. The candidate should be able to teach general biology and upper-level courses in neurobiology. The development of a research program involving undergraduates is expected. Submit curriculum vitae, transcripts, teaching philosophy, plan of proposed research, and the names and contact information for three references to: **Dr. Paula Dehn, Chair, Biology Department, Canisius College, 2001 Main Street, Buffalo, NY 14208** by November 15, 1999. For additional information, e-mail: dehn@canisius.edu; Telephone: 716-888-2550; website: www.canisius.edu/canhp/departments/biology. *Canisius College is an Equal Opportunity/Affirmative Action Institution and encourages applications from women and minorities.*

POSITIONS OPEN

STAFF SCIENTIST PROTEIN BIOCHEMIST

The newly established Program in Structural Biology (PSB) in the Division of Basic Sciences at the National Cancer Institute is seeking a creative and energetic Staff Scientist (Ph.D.) to join the Program's Core Facility. This individual's primary responsibility will be to oversee and assist with the expression and purification of recombinant proteins for structural studies by PSB member groups employing NMR or X-ray crystallography. State-of-the-art equipment (AKTA, BioCAD) and some technical support is available. The successful candidate will also have an opportunity to engage in original research geared toward the development of novel technology for protein engineering, expression, or purification. A strong background in protein chemistry and excellent communications skills are required. In addition, experience with the operation of one or more of the following biophysical instruments is desirable: CD and fluorescence spectrometers, microcalorimetry equipment, and especially an HPLC-electrospray mass spectrometer.

An interactive and exciting environment for learning and discovery, the NCI-Frederick Cancer Research and Development Center is located near both Washington, D.C. and Baltimore in a beautiful small town setting that features excellent schools and varied recreational activities. This Staff Scientist appointment is renewable in five-year increments. Salary will be in the range of \$58,000 to \$75,022, depending on the applicant's qualifications. Please send a cover letter and curriculum vitae to: **Dr. David S. Waugh, Protein Engineering Group, Program in Structural Biology, Division of Basic Sciences, NCI-FCRDC, P.O. Box B, Frederick, MD 21702.**

NIH is an Equal Opportunity Employer. Selection for this position will be based solely on merit, without discrimination for nonmerit reasons such as race, color, religion, sex, national origin, politics, marital status, sexual orientation, physical or mental disability, age, or membership or nonmembership in an employee organization.

Botany. Plant physiology or plant development. Search reopened: Tenure-track **ASSISTANT PROFESSOR** beginning fall 2000 in the Biology Department at Colorado College, a private, undergraduate, highly selective liberal arts institution enrolling approximately 1,900 students. Responsibilities include (1) teaching introductory botany, cell biology, and an upper-level course in plant physiology or development and (2) development of a research program involving undergraduates. Ph.D. required, teaching and postdoctoral research experience highly desirable. The College seeks candidates who understand diverse perspectives and learning styles, with particular emphasis on the perspectives of women and minority groups. Applicants should send (1) cover letter that includes a description of professional background and goals, (2) statement of teaching philosophy, (3) description of current and future research plans, (4) curriculum vitae with e-mail addresses, (5) copies of undergraduate and graduate transcripts, and (6) four letters of recommendation to: **Tass Kelso, Chair, Department of Biology, Colorado College, Colorado Springs, CO 80903** no later than November 12, 1999.

Colorado College is an Equal Opportunity Employer; we welcome members of all minority groups and reaffirm our commitment to hire without regard to race, color, age, religion, sex, national origin, sexual orientation, or disability.

The Center for Scientific Review at NIH invites inquiries concerning two **SCIENTIFIC REVIEW ADMINISTRATOR** positions to manage study sections that review grant applications for scientific merit. The positions require one year of independent research experience in virology or laboratory-based AIDS research, administrative experience, a Ph.D. or M.D. degree (or equivalent), and are open to U.S. citizens. Send curriculum vitae and description of qualifications to: **Dr. Rona Hirschberg, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4186, MSC 7808, Bethesda, MD 20892.** *NIH is an Equal Opportunity Employer.*

POSITIONS OPEN

The University of Florida's (UF) new NSF-KDI-sponsored center to incorporate chemistry fully into the multiscale simulation of materials properties and failures, has a number of special **RESEARCH FELLOWSHIPS** available for new graduate students and for Postdoctoral Associates. These offer a unique opportunity for computationally sophisticated students to pursue Ph.D. studies in the full range of mathematical modeling ranging from *ab initio* quantum chemistry and solid state physics, to molecular dynamics, Monte Carlo simulations, continuum dynamics, and Finite Element methods. The students can take degrees in chemistry, physics, or materials science. The Postdoctoral Associates should exhibit exceptional research credentials in electronic structure theory, dynamics, or materials simulations. The initial appointments are for a year at a time, but can extend up to three years, with reappointment beyond that by mutual agreement. Please review our **website: www.qtp.ufl.edu/kdi** for more information. Applications should be sent to: **Rod Bartlett, Principal Investigator, Quantum Theory Project, University of Florida, P.O. Box 118435, Gainesville, FL 32611-8435** or to one of the other Investigators at UF depending upon your particular interest. Deadline for applications for Postdoctoral Fellows is November 15, 1999. Graduate students need to apply by December 1, 1999. Please list three references in your application. Anyone requiring special assistance in completing the application should contact the Search Committee Chair, **Dr. Bartlett.** *Women and minorities are encouraged to apply. Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT HEAD DEPARTMENT OF PLANT PATHOLOGY AND MICROBIOLOGY Texas A&M University

Texas A&M University, a land grant institution, invites applications and nominations for Department Head, Department of Plant Pathology and Microbiology. Department faculty have major roles in the missions of the Agriculture Program at Texas A&M University. We are seeking an individual with proven leadership experience and the interpersonal skills required to direct this important academic department. In addition to being an excellent academician, the new Head must be able to advance the research, educational, and extension missions of the department. Our **website: <http://www.plantpathology.tamu.edu>** contains further details about the department.

Review of candidates will begin November 15, 1999, and will continue until an appointment is made. Applicants should submit a complete curriculum vitae, statement of research interests, and names of five references. All correspondence should be addressed to:

**Plant Pathology and Microbiology Head Search
Attn: Terry Thomas, Search Committee Chair
Department of Biology
Texas A&M University
College Station, TX 77843-3258**

Texas A&M University is an Equal Opportunity Employer. Women, minority, and international candidates are encouraged to apply.

RHEUMATOLOGY

ASSISTANT PROJECT SCIENTIST sought for University of California, San Diego (UCSD) Center for Innovative Therapy Surrogate Marker Core. Position responsible for developing and implementing protocols to evaluate gene expression in clinical samples using RT-PCR, immunohistochemistry, and other quantitative techniques. Ph.D. or equivalent and at least three years of experience required. Salary related to rank and step of appointment and based on UCSD salary schedules. Reply by October 31, 1999, to: **Gary S. Firestein, M.D., Division of Rheumatology, Allergy, and Immunology, Mail Code 0656, UCSD School of Medicine, 9500 Gilman Drive, La Jolla, CA 92093-0650.** *Affirmative Action/Equal Opportunity Employer.*



National Institute of Allergy and Infectious Diseases
National Institutes of Health

NIH SEEKS SENIOR PHYSICIAN/SCIENTIST TO HEAD NEW OFFICE OF CLINICAL APPLICATIONS

The Division of Allergy, Immunology and Transplantation, National Institute of Allergy and Infectious Diseases, is seeking an outstanding physician (M.D.) or scientist (Ph.D.) to serve as Director of the Office of Clinical Applications. The incumbent will lead a rapidly expanding extramural research program dedicated to the discovery and evaluation of promising new therapies for immune-mediated diseases. The Director will be responsible for the design, development, and implementation of NIAID-sponsored research initiatives in clinical immunology; and will provide scientific, programmatic, and budgetary leadership for the NIAID Collaborative Network for Clinical Research on Immune Tolerance, an international consortium committed to the discovery and clinical application of new immunotherapies.

The position requires exceptional scientific and clinical expertise as well as outstanding interpersonal and communication skills to interact effectively with academia, industry, other government agencies, public and private research and health organizations, the scientific and lay press, and the general public.

Basic Qualifications: Doctor of Medicine, Doctor of Osteopathy, or Ph.D. in a health-related research field, with a comprehensive knowledge of basic and clinical immunology and clinical trial design. Candidates must have expertise in managing complex biomedical research programs and the ability to recruit, inspire, and lead a dedicated staff of scientists and clinical study coordinators.

SPECIFIC APPLICATION PROCEDURES APPLY: For more information contact Sue Anderson at (301) 402-0957 or sa109m@nih.gov. This vacancy closes December 3, 1999.

Salary commensurate with experience and level of accomplishment and will range up to \$104,851 (GS-15); however, a higher salary may be possible through the use of other appointment mechanisms. Recruitment or relocation bonus of up to 25% of base pay, Physician's Comparability allowance, or other incentives may be available. *NIH is an Equal Opportunity Employer.*

Post-Doctoral Research Fellowship Positions The Pulmonary - Critical Care Medicine Branch (PCCMB), NHLBI

Post-doctoral research fellowship positions are available for individuals interested in basic cell molecular biology, as well as bench to bedside translational research. Opportunities for post-doctoral research fellowships exist within intramural PCCMB laboratories investigating signal transduction, nitric oxide, G proteins, protein modification, vesicular trafficking and cyclic nucleotide phosphodiesterases. Translational research opportunities include asthma, bacterial virulence factors, cystic fibrosis, emphysema, interstitial lung disease, lymphangioleiomyomatosis, oxidative lung injury, sarcoidosis, and susceptibility genes in pulmonary disease. Positions are available for a minimum of 2 years and may be extended for additional training. Candidates should possess a PhD or MD degree or equivalent. Position are available immediately. Interested individuals should submit a letter of interest, curriculum vitae, and three letters of recommendation to: **Joel Moss, MD, PhD, Chief, Pulmonary Critical Care Medicine Branch, NHLBI, NIH, Bldg 10, Rm 6D03, MSC 1590, Bethesda, MD, 20892-1590.**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

envision an exciting future...



...that brings new understandings in science, technological innovations and drug discoveries to meet the medical needs of our world. The people at Axys Pharmaceuticals are putting pieces of that future together every day.

Axys Pharmaceuticals is a leader in the integration of drug discovery technologies from gene identification through clinical development. We are focused on the discovery of small molecule therapeutics, and have several promising research collaborations with world-class pharmaceutical companies. We currently have excellent opportunities for experienced scientists and researchers to join our multidisciplinary R&D team.

Scientist, Tumor Biology

As our Tumor Biology Scientist, you will develop, characterize, and implement in vivo tumor and angiogenesis models for profiling drug candidates evolving from ongoing oncology drug discovery programs. You will also evaluate proprietary compounds from our oncology chemistry efforts in established in-house models and/or in collaboration with academic and contract organizations. To be successful in this position, you need 2 to 5 years' post-Ph.D. experience involving the development, implementation, and utilization of cell and animal oncology models. This would include experience working with standard tumor models in rats and mice, xenograft models, and more sophisticated models to evaluate various phases of the processes of tumor progression and angiogenesis. We prefer candidates experienced with flow cytometry, gel electrophoresis, Western blotting, PCR, cell culture, and ELISA. Significant experience with in vivo tumor models is a must, and a significant publication record is expected. (Job# N99-076-SC1)

Research Associate, Protein Expression

As an RA in the molecular biology and protein expression group, you will collaborate with a group of ten people with the focus of your work revolving around the development of oncology products. Your work will support structural studies, assay development and high-throughput screening. You should have two years' experience in protein purification and protein chemistry. Hands-on experience in FPLC, HPLC, western blot and ELISA is needed. Experience with one or more expression systems is a plus. This position requires a BS or MS in biochemistry, molecular biology, chemistry, or chemical engineering. (Job# N99-047-SC1)

We offer an extremely competitive salary, full benefits, and career advancement within a progressive, growing company. 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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**THE OPPORTUNITY OF A LIFETIME.
EVERY DAY.**

POSITIONS OPEN

Gene Logic Inc., a young, rapidly growing public company engaged in genomics and bioinformatics, has an immediate opening for a **SCIENTIFIC DIRECTOR** in our Gaithersburg, Maryland headquarters.

The successful candidate will have two to five years of postdoctoral experience in the pharmaceutical or biotechnology industry with an emphasis on experimental design, molecular biology, and specific knowledge of heart disease. Two years of management experience is desired. Candidate must be able to organize and prioritize scientific activities for the Program, including accurately representing GLGC capabilities to the partner and translating the needs of the partner back to GLGC. Deliverables and timelines will be established based on these parameters and communicated to the partner and GLGC departments. Director will organize data generated by GLGC within the terms of the alliance and analyze the data for its meaning and appropriate context within the alliance; assemble clear and concise presentations for RMC video conferences, data review sessions, teleconferences, etc.; assist in driving the program toward success, with attainment of milestones appropriate to the alliance; recommend interesting genes and follow up on those genes, either via in-house technology, functional genomics, or outsourcing; develop and maintain strong working relationships with corporate partners and academic collaborators.

At Gene Logic, you'll enjoy a comprehensive salary and benefits package. Please forward your résumé, referencing Job #120, to: **Gene Logic Inc., 708 Quince Orchard Road, Gaithersburg, MD 20878. FAX: 301-987-1805; e-mail: hr@geneologic.com.** Equal Opportunity Employer.

ASSISTANT PROFESSOR ECOLOGY BIOLOGY DEPARTMENT Williams College

Tenure-track position at the rank of Assistant Professor beginning July 2000 for an Ecologist to teach courses in community/ecosystem ecology, conservation biology, evolution, and, on occasion, introductory biology. A senior appointment is possible in exceptional circumstances. The course load in the department is one course and two laboratory sections, or an equivalent load, per semester. Faculty members are expected to establish an independent research program that attracts external funding and involves undergraduates.

Ph.D. and postdoctoral experience and a strong academic research record are required. Please send curriculum vitae, one-page statements of teaching and research interests, and three letters of recommendation by November 15, 1999, to: **Dan Lynch, Department of Biology, Williams College, Williams-town, MA 02167.**

An Equal Opportunity/Affirmative Action Employer, Williams College especially welcomes applications from women and minority candidates.

POSTDOCTORAL ASSOCIATE NUTRITIONAL BIOCHEMISTRY

NIH-funded position available now to study transcriptional regulation by phytochemicals in cells and in transgenic mice with emphases on the interaction of phytochemicals with metals and with cytokine signaling. Ph.D. degree with experience in molecular biology techniques is required. Send curriculum vitae and names of three references (with e-mail addresses) to: **Dr. Shiu-Ming Kuo, SUNY Buffalo, 15 Farber Hall, Buffalo, NY 14214. E-mail: smkuo@acsu.buffalo.edu.**

POSTDOCTORAL FELLOWSHIPS. Harvard School of Public Health, cardiovascular biology, available immediately for Ph.D.'s or M.D.'s with strong backgrounds in molecular or cell biology for NIH-funded research that dissects the molecular mechanisms of exocytosis and thrombosis. Send curriculum vitae and names of three references to: **Dr. Guy L. Reed, Harvard School of Public Health, II-127, 677 Huntington Avenue, Boston, MA 02115. E-mail: reed@cvtlab.harvard.edu.**

POSITIONS OPEN

MDS Panlabs, a leading contract research organization located on Seattle's eastside, provides research and development services to the pharmaceutical and biotechnology communities.

MDS Panlabs Pharmacology Services Division.

MOLECULAR PHARMACOLOGY SCIENTIST BIOCHEMICAL ASSAY DEVELOPMENT (POSITION #99-34)

Accountable for developing and validating molecular assays used by the pharmaceutical industry to profile new drug leads in a broad range of therapeutic areas. Responsibilities will include methods development and validation, measurements of radioligand binding, enzyme kinetics and inhibition, and cellular responses, development of standard operating procedures, and assessment and prioritization of assay targets. Position requires excellent written and oral communications skills, strong interpersonal skills, and an ability to act as a resource in technical consultations with, and presentations to, pharmaceutical industry clients. A Ph.D. in pharmacology, molecular biology, biochemistry, immunology, or related discipline with two-plus years of postdoctoral experience is required. Skills in molecular biology are desirable.

We offer competitive salary and benefit packages. Submit résumé to:

**MDS Panlabs
Attn: Human Resources (Position #99-34)
11804 North Creek Parkway South
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You'll enjoy a professionally stimulating environment and a competitive compensation package. Send your résumé to: **Human Resources, BioTransplant, Inc., Building 75, 3rd Avenue, Charlestown Navy Yard, Charlestown, MA 02129. E-mail: ariane.hodges@biotransplant.com.** We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available to study structure/function of human factor VIII (antihemophilic factor) and its interactions with other blood clotting proteins. Candidates should have a strong background in protein biochemistry and molecular biology. Send curriculum vitae and contact information for three references to: **Dr. Philip J. Fay, Department of Biochemistry and Biophysics, P.O. Box 712, University of Rochester School of Medicine, Rochester, NY 14642.** An Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available to study *in vivo* modification of cardiac electrophysiology using viral gene transfer approaches. Experience with cardiac or vascular surgical procedures and/or virus production is preferred. *American citizenship or permanent residency is required.* Interested applicants should e-mail a curriculum vitae to: **Kevin Donahue, M.D., Institute of Molecular Cardiology, Johns Hopkins University, Baltimore, MD; e-mail: kdonahue@jhmi.edu.**

POSITIONS OPEN

A full-time position as **ASSISTANT SPECIALIST** is available in the Division of Neurobiology, Department of Molecular and Cell Biology, University of California at Berkeley. Minimum salary is \$33,864; salary commensurate with experience. Duties include research to carry out experimental studies on the function and development of the vertebrate olfactory system. Qualifications: M.A. in neurobiology or related field; Ph.D. preferred. An academic technical position with the following skill requirements: cDNA and genomic cloning, cDNA, phage, and BAC library manipulations, PCR and RT-PCR, DNA sequencing, manipulation of recombinant protein products *in vitro*, *in situ* hybridizations, immunocytochemistry, *in vitro* organotypic cultures, microdissection of embryonic neural tissues, light microscopy. Familiarity with the embryology and neuroanatomy of the zebrafish and mouse strongly preferred. November 8, 1999, through November 9, 2000, with possibility of reappointment.

Deadline date of application: November 7, 1999. Candidates should send complete curriculum vitae, research qualifications, and names and addresses of three references to:

**John Ngai, Ph.D.
University of California
Department of Molecular and Cell Biology
269 LSA-3200
Berkeley, CA 94720-3200**

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STAFF SCIENTIST/RESEARCH ASSOCIATE OPPORTUNITIES AGRITOPE, INC.

Agritope, Inc. is a growing Portland, Oregon-based agricultural biotechnology company focused on the genetic improvement of a number of crop species. We are currently searching to fill several positions at the Staff Scientist or Research Associate levels in the areas of plant genetics, plant physiology, and plant pathology. We are seeking applications from creative and energetic scientists with a Ph.D. or M.Sc. degree in these, or closely related, fields. Agritope offers a competitive salary and benefits package, as well as stock options. Information on Agritope, and our recently initiated genomics program, can be found on our website: **www.agritope.com**. Applications for these positions should be addressed to the Human Resources Manager and may be submitted via mail, e-mail or FAX. Complete applications must include cover letter, curriculum vitae, and three letters of reference forwarded directly to Agritope. Closing date is November 5, 1999: **Agritope, Inc., 16160 S.W. Upper Boones Ferry Road, Portland, OR 97224. E-mail: humanresources@agritope.com; FAX: 503-670-7703.** Equal Opportunity Employer.

MOLECULAR BIOLOGIST

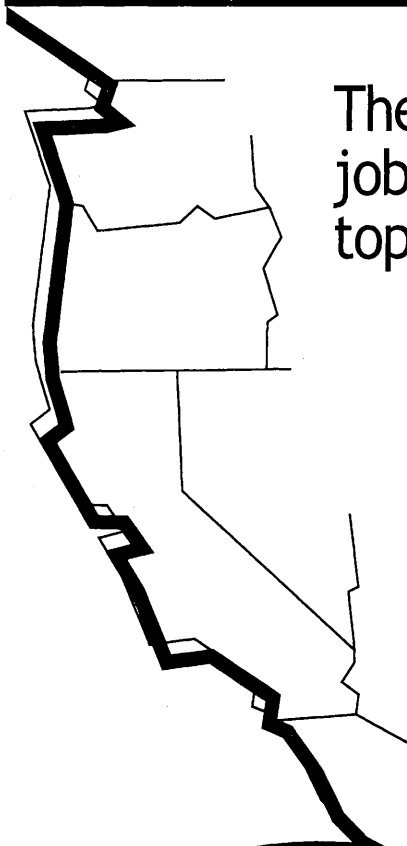
The University of Chicago is looking for a highly motivated, experienced Molecular Biologist. This position clones genes and purifies proteins related to immune function in diabetes, cancer, and transplantation. B.S. or M.S. in biology, biochemistry, or molecular biology and three years of experience is required. Please e-mail (MSWord format), cover letter, résumé, and three references for immediate consideration to:

**Jeffrey Bluestone
The University of Chicago
FAX: 773-702-3701
E-mail: seanoh@huggins.bsd.uchicago.edu**
Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available to investigate the roles of the tumor suppressor p53 and BRCA1-related pathways in cell cycle progression, and the signaling pathways that regulate gene expression in response to the genotoxic agents. Applicants with backgrounds in molecular biology and biochemistry should send curriculum vitae and the names of three references to: **Dr. Qimin Zhan, University of Pittsburgh School of Medicine, Cancer Institute, BST W-945, 200 Lothrop Street, Pittsburgh, PA 15213. E-mail: qzhan@pitt.edu.**

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1, 2 *Science* June 1999 BPA Publisher's Statement

3 *Science* Harvey Research Readership Surveys: Aug 1998, 18 July (Japan), 1998 European Cumulative Report as applied to June 1999 AAAS Membership Profile

POSITIONS OPEN

SENIOR RESEARCH SPECIALIST IN THE HEALTH SCIENCES

Department of Anesthesiology at the University of Illinois at Chicago is seeking candidate for Senior Research Specialist position with research interests in the area of cerebral ischemia. Doctorate (preferred) or Master's degree in a health science or other appropriate scientific, mathematical, or computer science field required. A minimum of at least two years of training and experience in a scientific research field is required. The successful candidate must be thoroughly knowledgeable about current developments and research findings in the rapidly changing health science disciplines. Interested persons should address correspondence to: **Ronald F. Albrecht, M.D., Head, Department of Anesthesiology, University of Illinois at Chicago, 1740 West Taylor Street, M/C 515, Chicago, IL 60612, Attention: June Palmer, Ph.D.** Please include curriculum vitae, names of three references, and a brief description of research program. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS GEORGETOWN UNIVERSITY MEDICAL CENTER

A Postdoctoral position is available immediately to study the biochemical and molecular aspects of *Ataxia-telangiectasia* and prostate cancer. The projects include biochemical analysis, isolation of novel genes, and clinical translation studies for gene therapy. Recent Ph.D. training in molecular or cellular biochemistry. Prefer experience in these areas and less than five years of postgraduate. Send curriculum vitae and names of three references to: **Anatoly Dritschilo, M.D., Professor and Chairman, Department of Radiation Medicine, Division of Radiation Research, Georgetown University Medical Center, 3790 Reservoir Road N.W., Washington, DC 20007-2197. FAX: 202-687-0400.**

Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for a motivated individual to study the protein-protein and protein-proteinase interactions necessary for crystal formation in developing hard tissues such as teeth and bone. This multidisciplinary project is funded by a P01 grant from NIDCR and provides a unique opportunity to interact among scientists with experience in such diverse fields as molecular biology, biochemistry, and physical chemistry. Candidates with experience in biochemistry and/or molecular biology are encouraged to apply. Please send curriculum vitae and names of three references to: **John D. Bartlett, Ph.D., Forsyth Institute, Department of Biomimetalization and Harvard-Forsyth Department of Oral Biology, 140 Fenway, Boston, MA 02115. FAX: 617-437-9822; e-mail: jbartlett@forsyth.org.**

EYE RESEARCH

POSTDOCTORAL POSITIONS in a retinal transplantation program to study function and connections of retinal transplants and stem cells. Desirable experience: electrophysiology, tracing, microdissection; rats, histology, tissue culture, immunohistochemistry. Send curriculum vitae and three letters of reference to: **Dr. Robert B. Aramant, Department of Ophthalmology and Visual Sciences, University of Louisville School of Medicine, 301 East Muhammad Ali Boulevard, Louisville, KY 40202. Telephone: 502-852-4882; FAX: 502-852-0128; e-mail: robert.aramant@louisville.edu.**

POSTDOCTORAL POSITIONS available to explore the role of retinoid signaling in development and neurological function. Join an NIH-funded project examining mice carrying knockouts of retinoid dehydrogenase genes involved in the regulation of retinoic acid synthesis. Expertise in molecular/developmental biology needed. Contact: **Dr. Gregg Duester, Gene Regulation Program, Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. E-mail: duester@burnham.org.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS HOLLAND LABORATORY IMMUNOLOGY DEPARTMENT

One Postdoctoral Fellow will study the molecular mechanism of T cell development (with **Dr. Lisa Spain**). A second Fellow will study the role of Fas mutations in autoimmunity and lymphomagenesis (with **Dr. Wendy Davidson**). These positions require a Ph.D. or M.D. degree, and experience in molecular and/or cellular biology. Please send curriculum vitae and the names of three references to the relevant scientist: **c/o American Red Cross, Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855. E-mail: spainl@usa.redcross.org or davidsonw@usa.redcross.org.** The Holland Laboratory is the Research and Development Division of the American Red Cross, is located in Rockville, Maryland, ten miles north of the NIH in suburban Washington, D.C. and is affiliated with George Washington University Medical School. *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL FELLOW POSITIONS PEPTIDE SCIENCE

Several Postdoctoral positions are available immediately in our innovative program in design and synthesis of artificial proteins and peptide dendrimers at Vanderbilt University. Preference will be given to those with a strong background in peptides and proteins, multi-step organic synthesis, or recombinant DNA techniques. Send curriculum vitae and names of three references to: **Dr. James P. Tam, Microbiology and Immunology, Vanderbilt School of Medicine, A5119 MCN, 1161 21st Avenue South, Nashville, TN 37232-2363. FAX: 615-343-1467; e-mail: james.tam@mcmail.vanderbilt.edu.** *An Affirmative Action/Equal Opportunity Employer.*

The new Plant Sciences Institute seeks a **PROGRAM MANAGER** for the Seed Science Center to conduct research for establishing and standardizing optimal molecular testing protocols for seed genetic quality and health, teach mini-courses, deliver diagnostic test results, and help to set international standards for accreditation. A Ph.D. in molecular biology, genetics, or related field and a minimum of five years of experience in molecular test development for transgenic seeds are required. Review of applications begins October 30, 1999. Submit application, résumé, and three references to: **Dr. Manjit Misra, Director, Seed Science Center, Iowa State University, Ames, IA 50011. Telephone: 515-294-6821; e-mail: mkmisra@iastate.edu.** *Iowa State is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS LYME DISEASE AND EHRLICHIOSIS PATHOGENESIS

Yale University School of Medicine

Positions available to work on the molecular and cellular immunobiology of Lyme disease or Human Granulocytic Ehrlichiosis. Experience in molecular biology, microbial pathogenesis, or cellular immunology necessary. Send curriculum vitae and research interests to: **Erol Fikrig, M.D., Yale University School of Medicine, P.O. Box 208031, New Haven, CT 06520-8031. E-mail: ef6@email.med.yale.edu.**

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POSTDOCTORAL POSITIONS available to study cell surface signal-induced chromatin remodeling during lymphocyte activation (see: *Cell* 95:625). Projects include identification of signals regulating the mammalian SWI/SNF or BAF chromatin remodeling complexes and search for their targeting sites. Experience in biochemistry or molecular biology is required. Send curriculum vitae and names of three references to: **Dr. Keji Zhao, Laboratory of Molecular Immunology, National Heart, Lung, and Blood Institute, NIH, Building 10, Room 7N252, 9000 Rockville Pike, Bethesda, MD 20892-1674. E-mail: dempsy@wgate.nhlbi.nih.gov.**

POSITIONS OPEN

POSTDOCTORAL/LECTURER POSITION CYTOCHROME P450 STRUCTURE/ FUNCTION/MECHANISM OF OXYGEN ACTIVATION University of Michigan

Position now available for Ph.D. in chemistry or biochemistry or closely related field to collaborate on mechanistic and regulatory aspects of P450 enzymes. Opportunity to work with a diverse group of Physical and Mechanistic Enzymologists. Desired: strong chemical background, previous research experience, publications, familiarity with analytical techniques, interest in mechanism of enzyme action. Title of Lecturer also possible for qualified candidates. Rank and salary depends on previous experience. Send curriculum vitae with reference names and addresses to: **Professor M. J. Coon, Department of Biological Chemistry, University of Michigan Medical School, 1301 Catherine, Ann Arbor, MI 48109-0606. Telephone: 734-764-9132; FAX: 734-763-4581; e-mail: mjcoon@umich.edu.**

POSTDOCTORAL POSITION available immediately at Wake Forest University School of Medicine in the Department of Anesthesiology. Seeking a scientist to join research studying the role of excitatory amino acids in pain using calcium imaging of primary neuronal cultures from the dorsal root ganglion and spinal cord. The broad objective is to elucidate the molecular role of glutamate transmission in neuropathic pain conditions. Send curriculum vitae and two letters of reference to: **Pat McCaslin, Wake Forest University School of Medicine, Department of Anesthesiology, Winston-Salem, NC 27157-1009. E-mail: mccaslin@wfubmc.edu.** *Equal Opportunity Employer/Affirmative Action.*

POSTDOCTORAL POSITION

A National Research Council Associateship is available for a recent Ph.D. (zero to one year), to study the cellular mechanisms of injury mediated by inflammatory phagocytes. Current research activities focus on oxidative stress-mediated apoptosis and on the interactive role of oxygen and nitrogen radicals in pulmonary cell injury. Experience in human cell culture and neutrophil biology is desirable. Contact: **Dr. Jayasree Nath, Department of Respiratory Research, Walter Reed Army Institute of Research, Washington, DC 20307. Telephone: 301-319-9772; e-mail: jayasree.nath@na.amedd.army.mil.**

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL CHILDREN'S HOSPITAL

Position available immediately to study the mechanisms of seizure-induced brain damage during development in animals. Background in electrophysiology and computer sciences required. Send curriculum vitae and names of three references to: **Gregory L. Holmes, M.D., Epilepsy and Neurophysiology, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-355-6814; e-mail: holmesg@tch.harvard.edu.**

POSTDOCTORAL POSITION available immediately to study the function of commonly mutated tumor suppressor genes via gene targeting in human cultured cells (see: *Nature* 381:713, 1996; *Nature Medicine* 3:1034, 1997; *Science* 282:1497, 1998). Send cover letter, curriculum vitae, and the names of three references to: **Todd Waldman, M.D., Ph.D., Lombardi Cancer Center, Georgetown University School of Medicine, Research Building, Room E412, 3970 Reservoir Road N.W., Washington, DC 20007. FAX: 202-687-7505; e-mail: waldmant@gunet.georgetown.edu.**

POSTDOCTORAL POSITIONS are open to study nitric oxide, oxygen-derived free radicals and calcium in platelets and vascular smooth muscle in cardiovascular diseases. At least two years of experience required. Send curriculum vitae and three letters of reference to: **Dr. Richard A. Cohen, Vascular Biology R408, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.**

THE ROYAL NETHERLANDS ACADEMY OF ARTS AND SCIENCES
CALLS FOR NOMINATIONS FOR THE

HEINEKEN PRIZES 2000

The Royal Netherlands Academy of Arts and Sciences (KNAW) selects the recipient of the

- Dr H.P. Heineken Prize for Biochemistry and Biophysics 2000
- Dr A.H. Heineken Prize for Medicine 2000
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Nominations are restricted to individual, active scientists whose contributions to biochemistry and biophysics, medicine or environmental research should be outstanding and a source of inspiration to others.

Nominations must include a description of the research work and publications on which the nomination is based,

a curriculum vitae, bibliography, and one or two key publications. The deadline for nominations is January 1, 2000.

Nomination forms and general information are available from the:

Secretariat of the Heineken Prizes,
Royal Netherlands Academy of Arts and Sciences,
P.O.Box 19121, 1000 GC Amsterdam, The Netherlands.

Telephone: 31 (0) 20 55 10 759 Telefax: 31 (0) 20 62 04 941

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POSITIONS OPEN

POSTDOCTORAL POSITION CUTANEOUS AND UVEAL MELANOMA

A Postdoctoral position is available immediately in the melanoma research program of University of California San Francisco Cancer Center, in the laboratory of **Dr. James E. Cleaver**. Research into the genetic basis of cutaneous and uveal melanoma, and the role of solar exposure (DNA damage and repair) using state-of-the-art fluorescence and array technologies for gene identification, copy number, and gene expression.

Please send résumé, curriculum vitae, and three references to: **Dr. J. E. Cleaver, Box 0808, University of California San Francisco Cancer Center, University of California, San Francisco, CA 94143-0808. Telephone: 415-476-4563; FAX: 415-924-5972; e-mail: jcleaver@cc.ucsf.edu.** For additional information consult the UCSF Cancer Center website: <http://cc.ucsf.edu/cleaver>.

The University of California is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are encouraged to apply.

A POSTDOCTORAL POSITION is available immediately on a NIH-funded project to study the molecular pathogenesis of the hepatitis E virus (HEV) by using swine HEV and pigs as an animal model system (see: *PNAS* 94:9860-9865, 1997; *J. Virol.* 72:9714-9721, 1998). Preference will be given to candidates with experience in full-length cloning of viral genome and viral gene expression and manipulation. Individuals with a Doctoral degree (preferably Ph.D.) and a strong background in molecular biology and virology are encouraged to apply. Send your curriculum vitae and names of three references to: **Dr. X.-J. Meng, Department of Biomedical Sciences and Pathobiology, Center for Molecular Medicine and Infectious Diseases, Virginia Tech, 1410 Price's Fork Road, Blacksburg, VA 24061-0342. E-mail: xjmeng@vt.edu.** 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 disability. Individuals with disability desiring accommodations in the application process should notify: **Dr. Meng**, as noted above, or TTY: 1-800-828-1120.

POSTDOCTORAL POSITION PROTEIN PHOSPHORYLATION AND CYTOSKELETAL REGULATION

A Postdoctoral position is available to participate in biochemical and cellular studies on a family of protein kinases that regulate nonmuscle myosin function in *Dictyostelium*. Studies will involve a combination of expression and mutagenesis of recombinant protein and *in vivo* analysis of kinase regulation and roles in cytoskeletal function. Individuals with experience in protein biochemistry and/or experience in DNA cloning methodologies are particularly encouraged to apply. Interested individuals should supply curriculum vitae and names of three references to: **Tom Egelhoff, Department of Physiology and Biophysics, Case Western Reserve School of Medicine, Cleveland, OH 44106-4970. FAX: 216-368-1693.**

POSTDOCTORAL POSITION is available immediately to study interactions of angiogenic growth factors with matrix proteins. Candidates should have a recent Ph.D. in biochemistry or related field and experience in cell and molecular biology will be helpful. Send curriculum vitae and names of three references to: **Charles W. Francis, M.D., Vascular Medicine Unit, P.O. Box 610, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. An Equal Opportunity/Affirmative Action Employer.**

Boston POSTDOCTORAL FELLOWSHIPS (two) to study angiogenesis and endothelial cell cycle regulation. NIH-funded positions available immediately for highly motivated candidates with experience in molecular biology, transcriptional regulation, signal transduction, cell culture. Send curriculum vitae to: **Dr. Douglas W. Losordo, Department of Cardiovascular Research, St. Elizabeth's Medical Center, Tufts University, 736 Cambridge Street, Boston, MA 02135. FAX: 617-789-5029.**

POSITIONS OPEN

POSTDOCTORAL ASSISTANT

(99UC3942) NIH-funded Postdoctoral position to examine efficacy of anti-angiogenic therapy in carcinogen-induced rodent tumors. Specific projects involve investigating the role of angiogenesis in the formation of mammary pathologies, hormonal regulation of the angiogenic phenotype during tumor progression, and signaling pathways involved in regulating angiogenesis in human and rodent tumor model systems. The ideal candidate must be highly motivated and independent with excellent writing and oral communication skills. Previous experience in cell culture, molecular biology, morphometry, and angiogenesis assays highly desirable. Please send curriculum vitae (including control #), a brief statement of research background, and names, addresses, and telephone numbers of three references to: **Sue C. Hefelfinger, Ph.D., M.D., Department of Pathology, University of Cincinnati, P.O. Box 670529, Cincinnati, OH 45267-0529. Telephone: 513-558-1795; FAX: 513-558-2141.** Résumés accepted until filled. Send résumés (noting control #) to: **Office of Employment Services, University of Cincinnati, P.O. Box 210117, Cincinnati, OH 45221-0117. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE position is now available for participation in a multidisciplinary, NIDCR-supported research program on biomimetalization. This highly integrated program addresses fundamental aspects of hard-tissue formation at the cell, gene, and protein level. Candidates are sought to study the interaction of specific matrix proteins with calcium phosphate mineral phases, as a means to understand protein regulation of hard tissue mineralization. Candidates with a Ph.D. in physical/inorganic chemistry or comparable training are encouraged to apply. Please send a curriculum vitae, a description of research interests, and the names of three references to: **Henry C. Margolis, Ph.D., Head, Department of Biomimetalization, The Forsyth Institute, 140 The Fenway, Boston, MA 02115. FAX: 617-262-4021; e-mail: hmargolis@forsyth.org.**

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Available in the neurophysiological laboratory to investigate hypoxia-induced plasticity in respiratory motor control. Interested candidates should have a Ph.D. or M.D. in physiology or a related biomedical area. Experience in electrophysiological techniques and small animal surgery preferred. Send curriculum vitae, statement of interests, and names of three references to: **Liming Ling, Ph.D., Sleep Disorders Program, Brigham and Women's Hospital, 221 Longwood Avenue, Boston, MA 02115. Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Position available to study molecular and genetic mechanisms of human allergic disorders (*NEJM* 332: 1720, 1997). Experience in molecular and transgenic techniques required. Send curriculum vitae and three references to: **Talal Chatila, M.D., M.Sci., Washington University School of Medicine, St. Louis Children's Hospital, #1 Children's Place, St. Louis, MO 63110. E-mail: chatila@kidsa1.wustl.edu.** Washington University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Immediate opening for Ph.D. with experience in molecular or cellular biology for studies on the effects of hypoxia on gene expression. Send curriculum vitae and letters of recommendation to:

**Jaime Caro, M.D., Cardeza Foundation
Thomas Jefferson University
1015 Walnut Street
Philadelphia, PA 19107-5099**

U.S. permanent residence required.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN APPLIED CONSERVATION

The Nature Conservancy (TNC) announces the third round of David H. Smith Conservation Research Fellowships, which provide two-year postdoctoral support in applied conservation biology. Each Fellow will carry out research pertinent to conservation issues in the United States, with an institution selected by the Fellow, in close association with a TNC mentor. Research will focus on priority TNC sites in the United States or questions germane to them. Research themes of particular interest include freshwater conservation, conservation planning, and invasive species. Proposals are due February 15, 2000; brief preproposals are encouraged and due December 1, 1999. Funding for Fellows will be available August 2000. For more information, including the proposal guidelines, see the section on the Smith program at website: <http://consci.tnc.org/>. You can also request a copy of the guidelines by sending an e-mail or writing to: **Smith Conservation Research Fellows Program, The Nature Conservancy, 4245 North Fairfax Drive, Suite 100, Arlington, VA 22203-1606. E-mail: postdoc@tnc.org.** The Nature Conservancy is an Equal Opportunity Employer.

NEUROSCIENCE

POSTDOCTORAL POSITION available to study GABA_A receptor biophysics, mechanisms of inhibitory synaptic transmission, and the role of inhibition in neural information processing. Techniques include whole-cell and excised patch electrophysiology, rapid solution exchange, and computer modeling. See website: <http://www.physiology.wisc.edu/www/jones.html> for further information. Send a letter of application, curriculum vitae, and the names and contact information for three references to: **Mathew V. Jones, Ph.D., Department of Physiology, University of Wisconsin-Madison, 123 Service Memorial Institutes, 1300 University Avenue, Madison, WI 53706 USA. E-mail: jonesmat@physiology.wisc.edu.**

POSTDOCTORAL POSITIONS IN MOUSE GENETICS

Positions are available to study the genetic control of recombination and meiosis in mice. Transgenic, knockout, and novel phenotype-based mutagenesis strategies in both ES cells and mice are being used to create mutations affecting meiosis, meiotic recombination, and somatic recombinatorial repair (with an emphasis on RecA-related genes). To inquire, send curriculum vitae to: **John Schimenti, Ph.D., The Jackson Laboratory, Bar Harbor, ME 04609. E-mail: jcs@jax.org; Telephone: 207-288-6402; website: www.jax.org/~jcs.**

POSTDOCTORAL POSITION. NIH-funded for two to three years to work on the mechanism of directional cell migration in response to applied dc electric fields. Integrin and receptor-based signaling, actin polymerization, localized calcium entry are among the areas of investigation. A strong background in signal transduction and cell motility and proficiency in basic cell biological techniques, image analysis and fluorescence microscopy are a plus. Contact: **Dr. Rivkah Isseroff and Dr. Rich Nuccitelli, University of California, Davis TB 192, One Shields Avenue, Davis, CA 95616. FAX: 530-752-9766; e-mail: rrisseroff@ucdavis.edu.**

POSTDOCTORAL POSITION available immediately to study glutamate transporter expression and function in models of cerebral ischemia. Prefer recent Ph.D. with experience in small animal surgery, biochemical and molecular techniques like immunohistochemistry, *in situ* hybridization, Western blotting, RT-PCR, microdialysis, and antisense knockouts. Send curriculum vitae and two references to: **Rao Vemuganti, Ph.D., Department of Neurological Surgery, University of Wisconsin-Madison, F4/309 CSC, 600 Highland Avenue, Madison, WI 53792. E-mail: vemugant@neurosurg.wisc.edu.** Equal Opportunity Employer.

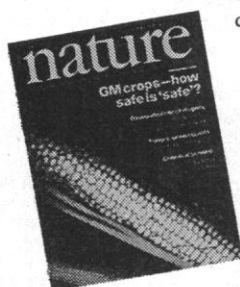
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The Max Planck Institute of Molecular Cell Biology and Genetics (CBG) in Dresden is seeking qualified candidates for independent

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Research at the institute is focussed on the molecular basis of cellular organization and how cellular architecture and function changes during development. We are especially interested in candidates working on the cell biology of tissue organization. We are also seeking candidates developing methodology for post-genomic research. Initial contracts are 5 years and salaries according to the BAT tariff. Interested candidates can check our web site (<http://www.mpi-cbg.de>). Further information can be obtained from Kai Simons (jobs@mpi-cbg.de). Applications containing a CV, publication list and research plan should be submitted to the administration by November 1, 1999. Three letters of recommendation should be sent separately by the application deadline.

CBG actively encourages female applicants.

Max Planck Institute
of Molecular Cell Biology and Genetics
Administration
Im Eichwald 18/33
D-69126 Heidelberg
Germany

The Queen's University of Belfast Lecturer in Molecular Pharmacology (Non-Clinical) (Ref: 99/P170A)

Cancer Research Centre Department of Oncology

Applications from highly motivated, experienced individuals with a strong commitment to a career in research and education are invited for this Lectureship in Molecular Pharmacology.

Specific areas of interest include the development and regulation of chemotherapeutic drug targets in addition to investigating the molecular signalling pathways that mediate the cellular response to these drugs. The candidate will also work on the clinical pharmacology of early phase 1 clinical development.

Applicants must have: an Honours degree (or equivalent) in a science-related topic; an MD/PhD in Biochemistry, Pharmacology, Molecular Biology, Molecular Pharmacology or related discipline; at least three years relevant postdoctoral experience; the ability to organise a research programme and have published in relevant internationally recognised journals. Membership of an appropriate professional society, evidence of teaching experience and success in attracting research funding are desirable.

Informal enquiries may be made to Dr Derek McCormick,
e-mail: d.mccormick@qub.ac.uk

Application details are only available from the Personnel Department and should be returned to that Department.

Salary Scale: Lecturer A/B: £16,655 - £29,048 per annum
(under review).

Closing Date: 29 October 1999.

The position is available immediately, for a period of three years, with the potential for renewal or conversion to a permanent post.

Applicants, quoting reference number 99/P170A, may obtain further particulars from the Personnel Office, The Queen's University of Belfast, BT7 1NN, on telephone (01232) 273044 or (01232) 273854 (answering machine) or fax on (01232) 324944 or e-mail on personnel@qub.ac.uk

The University is committed to Equal Opportunity and selection on merit. It therefore welcomes applications from all sections of society.

POSITIONS OPEN

POSTDOCTORAL POSITION available to work on fundamental principles involving solvent attenuation of macromolecular transitions. The work focuses on the chemical dynamics and thermodynamics of interactions of osmolytes and denaturing solvents with native and denatured states of proteins. Applicants should have a strong biophysical chemistry background, preferably in one or more areas involving protein NMR, thermodynamics, fast reaction kinetics, calorimetry, or mass spectrometry. This collaborative initiative, which involves academic and industrial laboratories, provides a competitive salary in a structural biology setting with excellent facilities. Send curriculum vitae, statement of research interests, and the names of three references to: **Dr. Wayne Bolen, Department of Human Biological Chemistry and Genetics, University of Texas Medical Branch, 5.154 MRB, Galveston, TX 77555-1052. Telephone: 409-772-0754; FAX: 409-747-4751; e-mail: wbolen@hbcg.utmb.edu.** UTMB is an Equal Opportunity/Affirmative Action Minorities/Females/Disabled/Veterans Employer.

POSTDOCTORAL POSITION MCLEAN HOSPITAL AND HARVARD MEDICAL SCHOOL

Postdoctoral Fellow to study genetic control of catecholamines at McLean Hospital and Department of Psychiatry, Harvard Medical School. Goal to identify transcription factors and mechanisms for hormonal and neural control of catecholamine biosynthetic enzymes and consequences of abnormal control for neuropsychiatric disorders. M.D.-Ph.D. with training in molecular techniques, including cell transfection, tissue culture, enzyme and protein assays, molecular biology, and rodent models. Send curriculum vitae and three letters of recommendation to: **Dr. Dona Lee Wong, McLean Hospital, MRC #116, 115 Mill Street, Belmont, MA 02178. McLean Hospital is an Affirmative Action/Equal Opportunity/ADA Employer.**

POSTDOCTORAL POSITION HARVARD UNIVERSITY

Position available to study the cell cycle dysregulation in head and neck cancer. Specific areas include the regulated expression and cell cycle control of p12/DOC-1 and related genes and proteins (*J. Biol. Chem.* 273:6704-6709, 1998; *FASEB J.* 9:1362-1370, 1995). Qualified candidates should have a strong background in molecular biology and biochemistry. Please forward a curriculum vitae and names and telephone numbers of three references to: **David Wong, Laboratory of Molecular Pathology, Harvard University, 188 Longwood Avenue, Boston, MA 02115. E-mail: david_wong@hms.harvard.edu; website: <http://www.hsdm.med.harvard.edu/pages/dwongea/index.html>.** Position available December 1, 1999.

POSTDOCTORAL (two) and RESEARCH TECHNICIAN positions available immediately in developmental neuroscience. Projects include growth cone behavior in *C. elegans* mutants and the role of lipocalins in fly and mouse neural development. Send curriculum vitae and three letters of reference to: **Dr. Michael Bastiani, Biology Department, University of Utah, Salt Lake City, UT 84112. E-mail: bastiani@bioscience.utah.edu.** Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available to study electric fields in proteins (*J. Phys. Chem.* 103: 6334, 1999). Applicants should have experience with modeling (quantum mechanics, electrostatics), and/or optical spectroscopy. UNIX a plus. Contact: **J. Vanderkooi, Biochemistry and Biophysics, School of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6059. E-mail: vanderko@mail.med.upenn.edu.**

POSTDOCTORAL POSITION. Microgravity-induced changes in vascular signal transduction, **Prof. R. E. Purdy.** Details, website: www.eod.uci.edu/eod-bin/ad, College of Medicine. Send curriculum vitae and names of three references to: **Department of Pharmacology, University of California, Irvine, CA 92697-4625. E-mail: repurdy@uci.edu.** Close date: October 15, 1999.

POSITIONS OPEN



**Agricultural
Research
Service**

POSTDOCTORAL POSITION available in nutrient conservation and metabolism, LPSI, Beltsville, Maryland. The scientist will study the environmental impact of gaseous emissions, including ammonia and odorous compounds, from farm environments. *There are citizenship requirements.* Salary range (GS11/12) is \$40,714 to 63,436 per annum and is commensurate with experience (Ph.D. required). Position is open until filled. For more information on the research program contact: **Dr. Alan Lefcourt, Telephone: 301-504-8451. USDA/Agricultural Research Service is an Equal Opportunity Provider and Employer.**

POSTDOCTORAL POSITIONS PANCREATIC DEVELOPMENT AND NEOPLASIA

The Vanderbilt-Ingram Cancer Center

Position immediately available in NIH-funded laboratory investigating molecular mechanisms of growth regulation in pancreatic epithelium. Current research projects include epithelial-mesenchymal interactions during pancreatic development, oncogene targeting to pancreatic stem cells, and use of *in vitro* organ culture systems to study mechanisms of transdifferentiation and malignant transformation. These studies rely heavily on transgenic mouse models, *in vitro* embryonic organ culture, and conditional gene deletion using Cre/lox methodology. Emphasis is placed on novel methods for lineage tracing during pancreatic development as well as during pancreatic tumorigenesis. Candidates should have strong background in molecular/cell biology, with previous gene targeting experience preferred. *Applicants must be U.S. citizens or have resident alien status.* Please forward curriculum vitae and references to: **Steven D. Leach, Departments of Surgery and Cell Biology, T-2104 Medical Center North, Vanderbilt University Medical Center, Nashville, TN 37232. Telephone: 615-343-6914; FAX: 615-343-2030; e-mail: steven.leach@mcm.vanderbilt.edu.**

POSTDOCTORAL POSITION is available for research project directed toward construction of artificial photosynthesis, oxygen-transport, and ion channels. Salary circa \$44,900 per year based on \$1 = ¥110. Send curriculum vitae, list of publications, reprints, summary of research, name of two Supervisors, and self-evaluation of experience and skills in organic synthesis to: **Professor Yoshiaki Kobuke, Graduate School of Materials Science, Nara Institute of Science and Technology, 8916-5 Takayama, Ikoma 630-0101 Japan. E-mail: supramol@ms.aist-nara.ac.jp. Visit website: <http://msw3.aist-nara.ac.jp/ms/LABs/kobuke/index-e.html>.**

POSTDOCTORAL POSITION available immediately at Mayo Clinic Jacksonville to develop experimental models for neurodegenerative disorders with tau and synuclein abnormalities. Candidate with background in biochemistry, cell biology, or molecular biology is desirable. Applicant must have a Ph.D., M.D., or comparable degree. Send curriculum vitae and three references to: **Shu-Hui Yen, Ph.D., Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. Telephone: 904-953-1066; FAX: 904-953-7117; e-mail: yen.shuhui@mayo.edu.**

POSTDOCTORAL POSITION available to study the NF2 tumor suppressor gene and related molecular neurotologic diseases. Applicants with expertise in gene regulation, gene therapy, and transgenic mice are preferable. Please forward curriculum vitae and three references to: **Dr. Brad Welling, Department of Otolaryngology (FAX: 614-293-3193; e-mail: welling.1@osu.edu) or Dr. Long-Sheng Chang, Department of Pediatrics (FAX: 614-272-2774; e-mail: lchang@chi.osu.edu), The Ohio State University, Columbus, OH 43210.**

POSITIONS OPEN

POSTDOCTORAL POSITION/ IMMUNOLOGY YALE UNIVERSITY School of Medicine

Ph.D. or M.D.-Ph.D. position to study autoimmune T-B cell collaboration or $\gamma\delta$ T cell regulation in autoimmunity and pathogen resistance (see website: http://info.med.yale.edu/immuno/fac_craft.html). Experience and/or interest in T cell cloning, costimulatory factors, apoptosis, and/or animal models of autoimmunity necessary. Send curriculum vitae and research interests to **e-mail: joseph.craft@yale.edu.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to work on gene therapy in autoimmune diseases, especially lupus. Experience in molecular biology, especially construction of viral vectors for gene expression, or T cell immunology and animal models of autoimmunity is desirable. Contact: **Dr. Ram Singh, Associate Professor of Medicine, Division of Immunology, University of Cincinnati, P.O. Box 670563, Cincinnati, OH 45267-0563. E-mail: singhrm@email.uc.edu.** Salary range \$25,000 to \$29,000.

FELLOWSHIPS

Emerging Infectious Diseases (EID) Advanced Laboratory Training and Research Fellowships (CDC-APHL): Administered by the National Centers for Infectious Disease (NCID/CDC) and the Association Public Health Laboratories (APHL). This two-track program (Training and Research) will train qualified candidates to support public health initiatives, and provide opportunities for Doctoral-level scientists to conduct high-priority infectious disease research in local, state, or federal (CDC) public health laboratories. *Applicants must be U.S. citizens and be able to start appointments by September 2000.* **TRAINING FELLOWSHIP:** A one-year advanced program designed for Bachelor's- or Master's-level scientists, with emphasis on the practical application of technologies, methodologies, and practices related to emerging infectious diseases. The annual stipend is \$20,292 with a Bachelor's degree and \$21,420 with a Master's degree, plus health benefits and a travel allowance. **POSTDOCTORAL RESEARCH FELLOWSHIP:** A two-year program designed for Doctoral-level (Ph.D., M.D., D.V.M.) scientists with an emphasis on research or development in infectious diseases. The annual stipend is \$29,500, plus health benefits and a travel allowance. Fellowship Application Deadline: March 31, 2000. For further information and application materials via the Internet contact website: <http://www.aphl.org> or via telephone/letter/e-mail contact: **Emerging Infectious Diseases Laboratory Fellowship, Association Public Health Laboratories, 1211 Connecticut Avenue N.W., Suite 608, Washington, DC 20036. Telephone: 202-822-5227; FAX: 202-887-5098; e-mail: fellowships@aphl.org.**

GRANTS

ENVIRONMENTAL SCIENCE MINIGRANTS TO BE AWARDED SPRING OF 2000

The Environmental Defense Fund (EDF), a national not-for-profit environmental organization, requests letter of inquiry that describe potential proposals for research projects at a maximum cost of \$15,000 related to topics of substantive interest to EDF. Letters should be no longer than one page and should describe the research topic, its relevance to environmental policy, amount of funding requested, and major expenditure items. Letters are due no later than November 22, 1999. Principal Investigator must hold the equivalent of a faculty position at a public or private college or university. See EDF's website for details (website: <http://www.edf.org/minigrant/index.html>). Send letters to: **Georgia Pease, Minigrant Coordinator, Environmental Defense Fund, 257 Park Avenue South, New York, NY 10010.** No telephone calls please. *EDF is an Equal Opportunity Employer.*

POSITIONS OPEN

Engineering and Public Policy at Carnegie Mellon seeks **DOCTORAL STUDENTS** with technical backgrounds to address policy issues in energy and environmental systems; information technology; policy risk analysis and communication; research and development, innovation, and development. See website: <http://www.epp.cmu.edu>. Contact: Victoria Massimino, Engineering and Public Policy, Carnegie Mellon, Pittsburgh, PA 15213 USA.

PROGRAMS

HARRY AND ELSA JILER INTERNATIONAL VISITING SCIENTIST PROGRAM

The purpose of the Harry and Elsa Jiler International Visiting Scientist Program is to facilitate research in multiple myeloma and AL amyloidosis being conducted in the laboratories of American Cancer Society Clinical Research Professor, **Alan Solomon, M.D.** at the University of Tennessee Graduate School of Medicine. Particular emphasis is directed toward elucidating the chemical and biological bases of pathologic light chain deposition and the development of novel diagnostic and therapeutic strategies for patients with these disorders. *Applications who are citizens of foreign country (not citizens, permanent residents, or noncitizen nationals of the United States)* are solicited from qualified Senior or Junior Investigators with demonstrated expertise in immunology, cell biology (particularly leukocyte physiology), or experimental pathology, and therapeutics. Ongoing program with positions presently available. Appointments are for up to a one-year term that in some cases can be extended for a second year. Send statement of research interest and background, curriculum vitae, and three letters of recommendation to: **Alan Solomon, M.D., Professor of Medicine and Head Human Immunology and Cancer Program, University of Tennessee Graduate School of Medicine, 1924 Alcoa Highway, Knoxville, TN 37920 USA.** GSM is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

WORKSHOPS

ANNOUNCING A WORKSHOP TO STIMULATE RESEARCH IN EARLY CHILDHOOD DEVELOPMENT

January 18 to 21, 2000, Houston, Texas

The University of Texas-Houston in conjunction with the Baker Institute for Public Policy of Rice University will offer a Workshop for researchers from various disciplines who are studying child development. Distinguished faculty members and attendees will represent neurobiological, behavioral, social, and health policy aspects of the field. Topics will include Structure and Function of the Developing Nervous System, Cognitive and Language Development, and a Critique of Interventions. The aim of the program is to stimulate interdisciplinary research in the area of child development. The number that can be accommodated is limited. For further information consult the workshop website: <http://www.uth.tmc.edu/schools/med/imed/general/clinepi/workshop2000.htm>.

EUROPEAN OPPORTUNITIES

A **POSTDOCTORAL POSITION** is immediately available for two years to study the function and distribution of novel regulators of the neuronal cytoskeleton (see: *EMBO J.* 18:565-77, 1999; website: <http://server.nbio.uni-heidelberg.de/Brandt.html>). The candidate should have a Ph.D. in molecular biology or equivalent; excellence in routine molecular and cell biology procedures; background in immunohistochemistry and *in situ* hybridization preferable. Send curriculum vitae, statement of research interests, along with names of three references to: **Roland Brandt, Ph.D., Department of Neurobiology, IZN, University of Heidelberg, INF 345, D-69120 Heidelberg, Germany.** E-mail: brandt@sun0.urz.uni-heidelberg.de.

POSITIONS OPEN

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<http://www.training.nih.gov>

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POSTDOCTORAL POSITION available immediately in bacterial pathogenesis to study the molecular basis of *Staphylococcus aureus* endovascular disease. Studies will involve cloning and characterization of staphylococcal adhesions that are involved in tissue colonization and invasion. Experience in cellular and molecular biology necessary. Send curriculum vitae and the names and addresses of three references to: **Frank Lowy, M.D., Columbia University, Division of Infectious Diseases, Box 82, 630 West 168th Street, New York, NY 10032.** Columbia University is an Affirmative Action/Equal Opportunity Employer.

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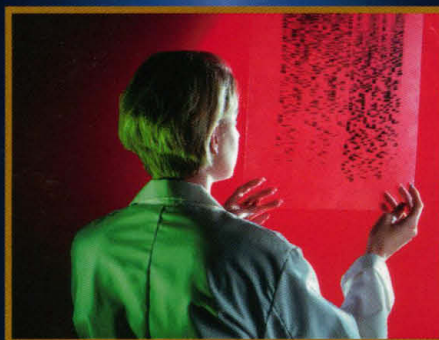
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