

NEW PRODUCTS

OXIDATIVE DNA DAMAGE ASSAY

The Biotrin OxyDNA Assay is a simple, convenient method for detecting oxidative DNA damage. It makes use of a fluorescent probe to the DNA adduct 8-oxo guanine, a major DNA oxidation product and an im-

Biotrin International

For more information call +353 1 283 1166 or **circle 144** on the Reader Service Card

portant indicator of oxidative stress. The probe is applied directly to cell cultures or histological sections in an immunohistochemical type procedure. DNA damage is observed as fluorescence localized in the cell nucleus and nucleolus. The assay can also be used in cell sorter systems. The detection of oxidative DNA damage is valuable in the study of carcinogenesis, mutagenesis, teratology, toxicity, inflammation, and other situations.

MICROPLATE ASSAY PLATFORM

Improvements to the Streptavidin FlashPlate PLUS microplate assay increase its binding capacity and detergent resistance. Designed for use with biotinylated capture molecules, the precoated microplates are available in 96- and 384-well formats in a variety of high-throughput screening package sizes. Patent-pending covalent technology has increased the binding capacity of the Streptavidin FlashPlate PLUS products more than threefold, resulting in improved signal-to-noise ratios and greater sensitivity for a wide range of high-throughput screening applications, including polymerase, kinase, and other enzyme assays; protein binding assays; and immunoassays. The scintillant-coated microplates can be used with a wide variety of isotopes, and with buffers containing a wide range of detergents.

NEN Life Science Products

For more information call 800-446-0035 or **circle 145** on the Reader Service Card

MEMBRANE CASSETTES

Ultrafiltration cassettes with applications that include diafiltration and concentration of plasma proteins, monoclonal antibodies, enzymes, vaccines, yeasts, fungi, and algae; depyrogenation of pharmaceuticals;

Schleicher & Schuell

For more information call 603-352-3810 or **circle 146** on the Reader Service Card

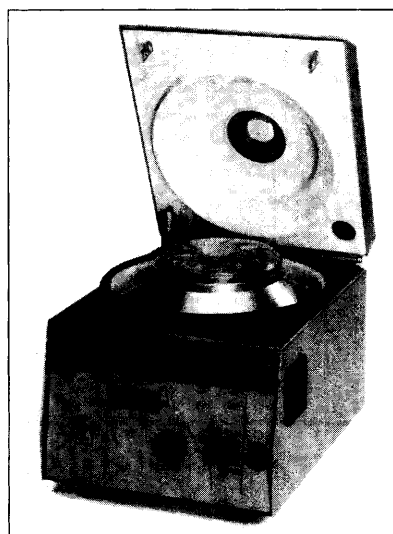
and concentration of viruses. Benefits of the cassettes include high product recovery rates and easy cleaning. The cassette configuration has been improved, resulting in a reduced, uniform torque for constant and reproducible tangential flow rates.

MICROCENTRIFUGES

The NAPCO 2019R is a high-capacity refrigerated microcentrifuge that handles a wide variety of microvolume tubes. It features a 24-ml by 1.5-ml fixed-angle rotor that generates more than 18,400g, a 60-place drum rotor for high-throughput laboratories, and a low noise level. The NAPCO 2002 is a ventilated, high-speed microcentrifuge. It is quiet and offers a variety of safety features, including an armored bowl, dual-lid interlock, metallic casing, and counterbalanced lid. It can generate high centrifur-

NAPCO

For more information call 800-621-8820 or **circle 147** on the Reader Service Card



gal force, spinning tubes in its 20-ml by 1.5-ml rotor at 17,000g. A variety of rotors available can accommodate almost any microvolume tube.

SEQUENCE DELETION MACHINES

New plasmid and cosmid sequence deletion machines provide a fast and reliable way to generate a nested set of sequence deletions in DNA cloned into plasmid and cosmid vectors. A simple,

Epicentre

For more information call 800-284-8474 or **circle 148** on the Reader Service Card

one-step reaction generates more than 10⁶ random deletion clones more easily and reliably than through exonuclease III/mung bean nuclease digests. The deletion clones can be used for a variety of experimental purposes, including generating DNA sequencing template, creating truncated genomic and cDNA clones, identifying the precise coding region of a cloned DNA, epitope mapping, and creating truncated proteins for structure and function studies.

CY3-NANOGOLD PROBE

Cy3-FluoroNanogold is a dual immunoprobe that contains the fluorescent dye Cy3 and a gold particle (Nanogold), both covalently attached to a Fab' antibody fragment. It permits correlative microscopy both at the light and electron microscope (EM) level. Samples can be studied by fluorescence, or pre-screened and selected for EM preparation. Because only one probe is used, there is no ambiguity about correlating the results. Cy3 fluorescence is red and can be observed using rhodamine filter sets. It is brighter, more resistant to bleaching, and more water-soluble than fluorescein fluorescence.

Nanoprobes

For more information call 877-808-2101 or **circle 149** on the Reader Service Card

LITERATURE

Meeting Today's Needs in Luminescence Detection is a line of luminescence plate readers. It includes the Berthold MicroLumat Plus dedicated luminometer, the VICTOR² multilabel counter for flash and glow luminescence measurements, MicroBeta TriLux and MicroBeta JET liquid scintillation and luminescence counters, and Isoplate microtitration plates. Also included is a matrix indicating which of these instruments can also be used for fluorometry, time-resolved fluorometry, photometry, and radionuclide applications.

EG&G Wallac

For more information call 800-638-6692 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.

AAAS thanks the Sponsors of the 2000 AAAS Annual Meeting and Science Innovation Exposition

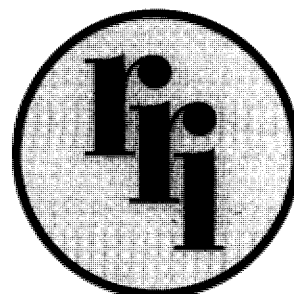
Their participation, along with the exhibitors, made the Washington DC Meeting a great success!



The Beauty of All-Wheel Drive.®



**Juvenile Diabetes Foundation International
The Diabetes Research Foundation**



**Rheumatology
Research
International**

Sponsorship Opportunities and Exhibit Space for
San Francisco, CA Available Now!

To become a Sponsor or Exhibitor at the 2001 AAAS Annual Meeting and Science Innovation Exposition, February 16–19 in San Francisco, CA, contact Ryan Strowger, AAAS Exhibit Sales Manager, at (202) 326-6736, or by e-mail at rstrowge@aaas.org.



AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

Classified Advertising

To obtain information on rates, deadlines, editorial features, and bonus distribution schedules, call our sales office or visit *Science Careers* at www.scienceonline.org and click on "How to Advertise." All advertising is subject to publisher's approval.

UNITED STATES

Display Classified Advertising

Bren Peters
Tel: 202-326-6541
Fax: 202-289-6742
E-mail: science_displayads@aaas.org

Line Classified Advertising

Christina Geiger Kathleen Clark
Tel: 202-326-6532 Tel: 202-326-6722
Fax: 202-289-6742
E-mail: science_classifieds@aaas.org

Line ads are not agency commissionable. Ads submitted should not include any bold, italicized, or abbreviated words. *Science* will edit and typeset ads according to *Science* style requirements. *Science* cannot provide proofs of typeset line ads. *Science* will provide an estimated cost of line ads at time of placement. This is an approximate cost only. Please provide contact name, telephone, billing information, and purchase order numbers with your order.

Online Classified Advertising

Beth Dwyer
Tel: 202-326-6534
Fax: 202-289-6742
E-mail: science_internet@aaas.org

Every employment ad placed in *Science* will be featured in our job database online for 4 weeks. Call to find out how to link to thousands of additional job seekers online with *Science Professional Network*.

www.scienceonline.org

Ad Materials: Send to: *Science Classified Advertising*, 1200 New York Avenue, NW, Room 911, Washington, DC 20005

EUROPE

Line, Display, and Online Classified Advertising

Deborah Cummings
Tel: +44 (0) 1223 326 500
Fax: +44 (0) 1223 326 532
E-mail: european_ads@science-int.co.uk

Ad Materials: Send to: Advertising Dept., Bateman House, 82-88 Hills Road, Cambridge CB2 1LQ, United Kingdom

Discounts: A 3% cash discount is granted to all prepaid ads.

Credit Cards: *Science* accepts American Express, MasterCard, and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

To Subscribe to *Science* call:
202-326-6417 or 1-800-731-4939

POSITIONS OPEN

FACULTY POSITION COMPUTATIONAL MOLECULAR BIOLOGY

The Department of Molecular Biology at the University of Wyoming is seeking to fill a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The preferred area is computationally intensive molecular biology, such as bioinformatics, modeling, genomics, proteomics, or related specialties. Candidates must hold a Ph.D. in an appropriate field and have at least two years of postdoctoral experience. The successful candidate will be expected to establish an independently funded research program and participate in both the undergraduate and graduate teaching programs. Candidates seeking appointment at the Associate Professor level will be expected to have already developed an independently funded research program. The Department is presently composed of 13 faculty members with diverse research interests in biochemistry, genetics, and microbiology, supported by over \$2.5 million per year in grants. Laboratory facilities are modern and well equipped. Salary and start-up packages will be competitive, with additional funding available from a Universitywide NSF initiative. The University enrolls 11,000 students, including approximately 2,000 graduate students. Laramie is located in southeastern Wyoming about 120 miles from Denver, Colorado. For additional information, see website: <http://www.uwyo.edu/ag/molebio/mobio.html> or direct questions to e-mail: uwmbio@uwyo.edu. Candidates should submit a curriculum vitae, description of research plans and teaching philosophy, and three letters of recommendation to: **Faculty Search Committee, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3944**. Screening of applications will begin on April 20, 2000, and continue until a suitable candidate is identified.

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

TENURE-TRACK FACULTY POSITION IN BASIC BONE RESEARCH

The Department of Orthodontics, College of Dentistry, University of Florida, is seeking applications for a full-time, tenure-track faculty position at the **ASSOCIATE/FULL PROFESSOR** level. Applicants are expected to have an M.D., D.D.S., or Ph.D. degree or equivalent and proven ability to perform basic research independently in the field of bone biology. A track record of external funding and strong prospects for future success in acquiring external funding are highly desirable. Salary is negotiable based on level of experience. Applications should include a statement of research interests and a curriculum vitae outlining academic training, research experience, and professional activities. The names of three individuals who can provide letters of reference upon request should also be included. The deadline for applications is May 1, 2000. Address correspondence to:

Thomas J. Wronski, Ph.D.
Chair, Search Committee
Department of Physiological Sciences
Box 100144, JHMHC
University of Florida
Gainesville, FL 32610

Telephone: 352-392-4700, extension 3844

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

University of Michigan, Department of Anesthesiology, is recruiting faculty at the **TENURED ASSOCIATE PROFESSOR** level. The Department is especially interested in faculty with Ph.D. or M.D./Ph.D. with an ongoing funded research program. Applicants should be knowledgeable in the areas of host defense, immunological challenge, and modulators of arousal state control. Interested candidates should apply to: **Ralph Lydic, Ph.D., Department of Anesthesiology, 7433 Medical Sciences Building I, Box 0615, Ann Arbor, MI 48109-0615**. *The University of Michigan is a nondiscriminatory Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

POSITIONS OPEN

NUCLEAR MAGNETIC RESONANCE (NMR) LABORATORY SERVICES COORDINATOR DEPARTMENT OF CHEMISTRY Stanford University

Outgoing and experienced nuclear magnetic resonance Scientist to operate and maintain NMR spectroscopy laboratory and collaborate with researchers. Facility operates with several Varian spectrometers. Individual will be responsible for (1) implementation, development, and teaching of NMR methods for small molecules and macromolecules; (2) upkeep of facility spectrometers; (3) instruction and collaboration with researchers; (4) maintenance of hardware and software resources related to NMR data acquisition and processing; and (5) helping write proposals to maintain state-of-the-art facilities and instrumentation. Qualifications: Ph.D. in chemistry or biophysics with strong experience and knowledge of NMR spectroscopy; experience in maintenance of NMR hardware and operating software (UNIX, VNMR, FELIX). Significant experience in modern 2D, heteronuclear, and relaxation methods desirable. Good communication skills important. Salary commensurate with experience.

Applications accepted through March 31, 2000. Send letter/curriculum vitae to:

Sue Learned-Driscoll
Department of Chemistry
Stanford University
Stanford, CA 94305-5080
Telephone: 650-723-3508
FAX: 650-725-0259
E-mail: sld@leland.stanford.edu

Stanford University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSOR OF GENETICS AT LOUISIANA STATE UNIVERSITY Health Sciences Center

As part of a Universitywide programmatic expansion in genetics and genomics, the Department of Biometry and Genetics invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants must hold a Ph.D. and/or M.D. degree with postdoctoral experience in genetics, genomics, or computational biology and must have demonstrated the ability to develop an extramurally funded research program. The successful candidate will enjoy excellent space and state-of-the-art equipment. Contributing to the Departmental teaching responsibilities is expected. Send a curriculum vitae, description of research interests, and three letters of reference to: **Bronya Keats, Ph.D., Department of Biometry and Genetics, Louisiana State University Health Sciences Center, 1901 Perdido Street, New Orleans, LA 70112**. *Louisiana State University Health Sciences Center is an Equal Opportunity/Affirmative Action Employer. Drug test is required.*

FACULTY POSITION IN BIOLOGY

Biology: Ph.D. and teaching experience required. Responsibilities include teaching, advising students, and serving on university committees. Preference is for a broadly trained person with specialization toward animal/cellular fields. LeTourneau University is a dynamic Christian university where the integration of faith and academic excellence is paramount. Applications will be accepted until the position is filled. Position begins August 2000. Applicants who agree with the educational mission of LeTourneau University are considered without regard to race, age, sex, disabling condition, or national origin. E-mail or FAX letters of application or nomination and a statement of compatibility with the mission of the University to: **Dr. Glenn Sumrall, Provost and Vice President for Academic Affairs, LeTourneau University, Post Office Box 7001, Longview, TX 75607-7001**. E-mail: sumrallg@letu.edu; FAX: 903-233-3227; website: www.letu.edu.



DEPARTMENT OF DEFENSE BREAST CANCER RESEARCH PROGRAM



Research funding available. Join us in the fight against breast cancer.

Proposals are sought across a wide variety of disciplines including: basic, clinical, psychosocial, behavioral, sociocultural, nursing, and environmental sciences; occupational health; alternative therapies; public health and policy; and economics. Research proposals that address the needs of minority, elderly, low-income, rural, and other underrepresented and/or medically underserved populations are encouraged. Proposals also are encouraged from investigators working at Historically Black Colleges and Universities and Minority Institutions (HBCU/MI).

Available now...

— CONCEPT AWARDS —

Approximately \$3.5M is available for Concept Awards

- ◆ New, fast-track mechanism
- ◆ Funds a novel initial concept or theory that could give rise to a testable hypothesis
- ◆ Short proposal (~1 page) requirement
- ◆ Electronic submission
- ◆ \$50,000 for 1 year (direct costs)
- ◆ Open to investigators with a master's or doctoral degree
- ◆ **Proposal receipt deadline April 12, 2000**

Available by mid-March...

— PROGRAM ANNOUNCEMENT —

Congress appropriated \$175M for breast cancer research. Funds are available for Research, Training/Recruitment, and Infrastructure Awards

New this year:

**Behavioral Center of Excellence Awards
Virtual Breast Cancer Center of Excellence Awards*
Undergraduate Summer Training Program Awards
Clinical Bridge Awards**

The Breast Cancer Research Program will continue to offer the following: Idea Awards, Clinical Translational Research (CTR) Awards,* Collaborative CTR Awards,* Predoctoral Awards, Postdoctoral Awards, CTR Fellowship Awards, Career Development Awards (CDA), CTR CDAs, HBCU/MI Focused Training Awards, and HBCU/MI Partnership Training Awards.

* Pre-proposals required; receipt deadline April 2000. See Program Announcement for complete information and proposal receipt deadlines.

Program Announcements can be downloaded from <http://cdmrp.army.mil>.
For questions or assistance, please call 301-619-7079.



POST-DOCTORAL RESEARCH ASSOCIATES

The Blood Center of Southeastern Wisconsin, an internationally recognized leader in vascular biology, molecular hematology, transplantation immunology, and transfusion medicine research, is seeking outstanding candidates to fill NIH-funded Post-doctoral Training Grant positions at its Blood Research Institute (BRI). The BRI provides state-of-the-art facilities, and offers an excellent environment for scientific interaction and interdisciplinary collaboration. Opportunities are available with Blood Center investigators in the following areas:

John W. Adamson, MD – Stem cell biology, ex vivo expansion and transplantation; cytokine-induced platelet production.

Richard H. Aster, MD – Pathogenesis of immune disorders affecting blood cells.

David D. Eckels, PhD – The role of mutation in hepatitis C virus and modulation of the human immune response.

Jack Gorski, PhD – Molecular genetic analysis of T cell repertoires.

Cheryl Hillery, MD – Mechanisms of vaso-occlusion in sickle cell disease.

Robert R. Montgomery, MD – Molecular biology of von Willebrand factor.

Michael W. Mosesson, MD – Fibrin formation and its role in angiogenesis; mechanisms of thrombophilia in dysfibrinogenemias.

Peter J. Newman, PhD – Cell adhesion and signaling receptors in vascular cells.

Debra Newton-Nash, PhD – Protein tyrosine kinase-dependent signal transduction in T cells.

Gian P. Visentin, MD – Heparin induced thrombocytopenia; regulation of endothelial cell proliferation and angiogenesis.

Hartmut Weiler, PhD – Function of blood coagulation in development.

Because these positions are funded through an NIH Training Grant, only American citizens or permanent residents are eligible to apply. Qualified applicants should send curriculum vitae, a brief description of recent research, and the names and telephone numbers of three references to:

**John W. Adamson, M.D.
Director, Blood Research Institute
The Blood Center of Southeastern Wisconsin
P.O. Box 2178
Milwaukee, WI 53201-2178**

The Blood Center of Southeastern Wisconsin is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply.

NEUROSCIENTIST

The Department of Neurological Surgery at the University of Pittsburgh Medical Center is recruiting a Ph.D. faculty position in the tenure stream at the Associate Professor level effective July 1, 2000. Candidates must have a strong background in behavioral neuroscience, a track record of accomplishments in the investigation of traumatic brain injury, a strong record of publications and success in obtaining funding. The position involves the teaching of residents and fellows and the establishing of an independent research effort. Experience in bench-to-bedside approach is desirable. Salary is competitive and commensurate with training and experience. In order to ensure full consideration, applications must be received by May 15, 2000.

Please send inquiries to:

**L. Dade Lunsford, M.D.
Lars Leksell Professor and Chairman
Department of Neurosurgery
Suite B-400 PUH
200 Lothrop Street
Pittsburgh, PA 15213**

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

Aventis Pharmaceuticals



Our challenge is life.

Hoechst Marion Roussel and Rhone-Poulenc Rorer have adopted the name Aventis Pharmaceuticals to create:

A new world class leader in the pharmaceutical industry.

Aventis Pharmaceuticals is dedicated to extending and enhancing human life through the discovery, development, manufacture, and sales of pharmaceutical products. Aventis offers the power of global forces in pharmaceutical products and services, an excellent financial standing and a vision for the future that is unmatched in the industry.

Aventis is committed to identifying and validating pathologically relevant druggable targets. An exciting opportunity is now available for a highly-motivated scientist to head a section within our **Respiratory and Rheumatoid Arthritis Disease Group**. A wide range of genomics technologies will be employed to identify and validate genes critical to the biology of these diseases. Our strategy is to establish functional cellular models of disease paradigms in which the phenotypic changes drive the selection of novel genes.

Section Head Inflammation Functional Genomics

We are looking for a Ph.D. Molecular Cell Biologist with at least five years' post-doctoral experience, committed to functional genomics. The successful candidate will have experience using viral delivery or oligonucleotide antisense technologies to perform loss/gain of function studies, ideally in cells of the immune system. Experience in transcription profiling, Taqman PCR or FACS together with the ability to handle and interpret large volumes of data using various software packages will be essential. A background in rheumatoid arthritis or respiratory diseases such as asthma will be considered to be a positive advantage. The candidate will have a proven scientific track record and demonstrated qualities of a team leader including strong communication skills. This team will work closely with the other teams in the Molecular Biology and Genomics department as well as other colleagues in the Disease Group and core support functions.

Become part of the most exciting growth company in the pharmaceutical industry. Please send a c.v. and a cover letter indicating your career accomplishments, and reference ad code: **2000BW0010**, to: **Aventis Pharmaceuticals, B103H, P.O. Box 6800, Bridgewater, NJ 08807-0800, email: jobs@aventis.com**

**Visit our website for further information:
www.aventispharma-us.com**

Aventis Pharmaceuticals is proud to be an equal opportunity employer committed to a diverse workforce.

100 Scientific Vacancies

with USDA's
Agricultural
Research Service



Consider a research science position with the Agricultural Research Service (ARS), USDA's principal in-house research agency. Here your work could touch the lives of every person—opening up a new multi-million dollar export market for U.S. crops; discovering ways to make industrial products from renewable resources; or helping ensure that we always have a safe, nutritious, abundant food supply and quality environment.

Vacancy announcements and application procedures at

WWW.ARS.USDA.GOV/AFM/HRD/RESJOBS

ARS offers a competitive scientific environment, excellent benefits, and opportunity for advancement. Openings exist in many disciplines at locations throughout the United States.



U.S. Department of Agriculture • Agricultural Research Service

ARS is an equal opportunity employer.



MAYO CLINIC POSTDOCTORAL POSITIONS

Positions available at the computer-aided molecular design (CAMD) lab for postdoctoral fellows to develop novel angiogenesis inhibitors and to study chromophores of green fluorescent proteins using ab initio/molecular mechanics calculations, spectroscopic analyses, and organic syntheses. Applicants must have strong total-synthesis experience and/or quantum mechanics and molecular mechanics background. Preference will be given to applicants with their own fellowships or with experience of Beowulf-class computer systems. The CAMD lab has records of developing biologically active molecules and novel methods for zinc protein molecular dynamics simulations and for virtual screen of chemical databases. It has state-of-the-art synthetic equipment, a cluster of dedicated Origin 2000 and 200 servers (16xR10K, 8xR12K, 200Gb disk, and 3Gb memory), and four Octane graphics. Recent patents and publications by the CAMD lab are available from [ftp.mayo.edu](ftp://ftp.mayo.edu) (name: anonymous, cd pub/camd). Applications including curriculum vitae, two relevant papers, and two recommendation letters should be sent to:

Yuan-Ping Pang, Ph.D.
Computer-Aided Molecular Design
Mayo Clinic
Guggenheim 711A
200 First Street SW
Rochester, MN 55905
e-mail: pang@mayo.edu

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

Electrical Engineer

The Department of Neurological Surgery, Center for Clinical Neurophysiology at the University of Pittsburgh Medical Center is recruiting an M.D. or Ph.D. faculty position in the tenure stream at the Associate Professor level effective July 1, 2000. Candidates must have a demonstrated interest in studying the functioning of the human nervous system utilizing advanced computing techniques, signal processing with special interests in time-frequency domain analysis, wavelet transforms and neural networks. The position involves serving as the Associate Director of Research for the Laboratory for Computational Neuroscience, supervision of graduate students, participation in selected graduate courses and development of an independent research effort. In order to ensure full consideration, applications must be received by May 15, 2000.

Please send inquiries to:

L. Dade Lunsford, M.D.
Lars Leksell Professor and Chairman
Department of Neurosurgery
Suite B-400 PUH
200 Lothrop Street
Pittsburgh, PA 15213

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



Diversa Corporation is a leader in the development of cutting edge technologies for the discovery and commercialization of robust enzymes and novel small molecules with application in the agricultural, chemical and pharmaceutical industries. We are currently in a phase of expansion and are seeking talented science professionals with various levels of experience. For more details on these and other positions see our website www.diversa.com or fax your resume to Human Resources at 858-623-5150

Director (Pathway Expression) — Diversa is seeking an experienced candidate with a demonstrated record of excellence in the area of pathway expression to lead a dynamic group focused on developing high throughput systems for the identification of novel small molecules and protein therapeutics, that couple traditional discovery methods with recombinant approaches. The candidate should possess a PhD in microbiology, biochemistry, chemistry or molecular biology. Additionally, 10 years of industrial experience is required. A strong knowledge base of the genetics and physiology of Actinomycetes is desired. The above position is within the Molecular Diversity Department and the successful applicant will report to the Senior Director. Job code#2/00-EMJD

Associate Director (Enzymology) — Diversa seeks an experienced candidate with a demonstrated record of excellence in biocatalysis and a Ph.D. degree in chemistry, bioorganic chemistry or biochemistry. The successful applicant will report to the Director and will manage a group dedicated to new product assessment and development. The position will require hands-on experimental biocatalysis as well as group management. Familiarity with enzyme purification, kinetics, bioprocess development, and molecular biology is key to success in this position. Job code#2/00-DRJD

Sr. Staff Scientist (Genomics) — Candidate should possess a Ph.D. in Molecular Biology w/3 to 5 years post-graduate industrial experience. Experienced manager of high-throughput sequencing group to manage a research team using ABI 377/3770 instruments. Support for enzyme discovery, direct evolution as well as management of microbial whole genome projects. Job code#12/99-RSJD

Sr. Staff Scientist – Whole Cell Optimization – (Genomics) — Candidate should possess a Ph.D. in Molecular Biology or Microbial Physiology w/ minimum of 3 years industrial experience. Technical experience should include working with expression of proteins and/or small molecules and engineering hosts. Experience with metabolic/pathway engineering or proteomics is required. Job code#1/00-RSJD

Staff Scientist (Bioorganic Chemistry) — Candidates should possess a Ph.D. in Bioorganic Chemistry with post-doctoral experience. A well-established research history with strong written and interpersonal skills is desired. The position may become supervisory in nature, so candidates must have leadership abilities. A strong knowledge base in organic chemistry, enzymology, and general biochemistry is essential. Knowledge and practical experience in cloning and general molecular biology would be a plus. Job code#2/00-DRJD

Staff Scientist (Biochemistry/Enzymology) — Candidates should possess a Ph.D. in Biochemistry and / or Molecular Biology with postdoctoral experience. A working knowledge of enzymology is desired including enzyme kinetics, characterization and high throughput assay development. Basic molecular biology and microbiology techniques are also required. Job code#1/00-DRJD

Staff Scientist (Molecular Biology) — Candidates should possess a Ph.D. in Molecular Biology with postdoctoral experience. Excellent knowledge and practical experience is desired including PCR, cloning techniques, protein expression systems and bioinformatics. Knowledge and practical experience in biochemical techniques would be a plus. Job code#1/00-MKJD

Research Scientist — A candidate should possess a MS or BS in biology with 5 years of relevant laboratory experience. Must have strong molecular and cell biology skills with experience in assay development and flow cytometry a plus. Job code#2/00-ETJD

Research Scientist — Minimum requirements for this position include a BS/MS degree, with 5 years of relevant experience in the areas of molecular biology and genetic microbiology. Experience with E. coli nomenclature, genetics, and strain construction is highly preferred. The candidate should be able to design, perform and interpret experiments with minimal supervision. Job code#12/99-PKJD

Research Associate — Requires a B.S degree in Biological Science with a strong background in computer science and relational databases. Candidate will work in database entry and maintenance and will organize and maintain archives of samples, clones and DNA. Job code#2/99-MLJD

Research Associates — Several positions are available for candidates with a BS / MS degree and 3 - 5 years of experience in Chemistry/Enzymology. Familiarity with analytical techniques such as HPLC, MS, GC or in advanced techniques of molecular biology and enzymology is desirable. Candidates should be able to develop assays and characterize enzymes. Job code#2/00-DRJD

Research Associate — Candidate should possess a BS/MS in Molecular Biology, Biochemistry or Microbiology with at least 2 years of lab experience. Candidate should have experience in Molecular Biology techniques including PCR, hybridization, cloning, gel electrophoresis and bacterial culture management. Job code#1/00-GFJD

Postdoctoral scientist — A candidate should possess a Ph.D. with 0 - 2 years industrial/academic experience in synthetic organic chemistry. Experience in the synthesis of fluorescent and organic substrates are desired. Knowledge in biochemistry is a plus. Job code#2/00-ETJD

Postdoctoral scientist — A motivated, creative, and independent, recent Ph.D. graduate with/without 1-3 years experience in Microbiology/Molecular Biology/Genetics. Experience in any of the following areas is essential: gene/pathway cloning and optimization of expression, vector constructions, and host strain development using recombinant approaches. Strong knowledge in different microbial gene expression systems is desirable. Job code#2/00-APJD



Choose us...

Choosing an employer is a complex decision process, one that merits careful consideration. The same consideration you would give, for example, to selecting a reliable supplier or business partner. If you're looking to join a company with a record of scientific innovation and a bright future, the choice is simple: QLT.

The world leader in photodynamic therapy, and based in Vancouver, Canada, QLT PhotoTherapeutics Inc. is leading the way in the emerging field of light-activated drug treatments with such breakthrough products as Visudyne™ and PHOTOFRIN®. And, as we begin to claim our place on the global stage as a premier biopharmaceutical company, we're especially proud of the role we will continue to play in enriching people's lives.

- Senior Director, Clinical Regulatory Affairs
- Director, Technical Regulatory Affairs
- Senior Director, Clinical Operations & Pharmacovigilance
- Director, Clinical Research – *Exploratory Development & Immune Modulation*
- Director, Process Development

- Director, Analytical Development
- Research Chemists – *Analytical Development*
- Senior Manager, External Development Projects
- Senior Manager, Stability Studies
- Manager, Pharmacokinetics & Toxicology
- Scientist I – *Immunology/Cell Biology*
- Scientist I – *Angiogenesis/Microvascular/Ocular*
- Research Associate I – *Angiogenesis/Microvascular/Ocular*

For complete details on these and other opportunities with QLT, please visit our Website.

Please submit your resume and cover letter, indicating position of interest to: **Human Resources, QLT PhotoTherapeutics Inc.**, 887 Great Northern Way, Vancouver, B.C. V5T 4T5. Fax: (604) 707-7308. E-mail: hr@qltinc.com. We thank all applicants for their interest and advise that only short-listed candidates will be contacted.



Our business is science. Our product is life.

www.qltinc.com

Become an M. D. Anderson Cancer Center Odyssey Scholar

Description: The Odyssey program sponsors high quality postdoctoral research at The University of Texas M. D. Anderson Cancer Center. The program reserves its most prestigious awards, the **Odyssey Scholarships**, for fellows with the strongest credentials and most promising proposals. The winners of the Odyssey Scholarship competition will receive 3 years of support to explore novel areas of clinical or basic cancer research while preparing for successful and independent careers. Odyssey Scholars will be allowed to select both their research projects and their mentors. Selected applicants will be asked to present their work at the annual M. D. Anderson Odyssey Symposium.

Advantages: M. D. Anderson Odyssey Scholars will receive salary support at the rates of \$41,200, \$44,900 and \$48,900 for the first, second and third years, respectively. A \$10,000 yearly research allowance for supplies, small equipment, and meeting attendance will be provided also.

Eligibility: Candidates should hold a Ph.D., M.D., or equivalent degree, with less than 3 years of postdoctoral training. They must have demonstrated productivity and creativity in cancer-related research with a track record of high impact first-author publications in international peer reviewed journals. Former and current M. D. Anderson trainees are not eligible.

Application deadlines: 05/01/00 (notice of intent due 04/17/00); 11/01/00 (notice of intent due 10/18/00)

For further information, consult our web site: www.mdanderson.org/profeducation.

The M. D. Anderson Cancer Center is an equal opportunity employer, smoke-free environment.

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

MUSC HOLLINGS CANCER CENTER DEPUTY DIRECTOR BASIC SCIENCE RESEARCH

The Hollings Cancer Center (HCC) at the Medical University of South Carolina seeks a Deputy Director with experience and vision to lead the Center's Basic Science Research Program. This position is responsible for the development of cancer biology research, new science program development and support of existing programs, and the allocation of resources for the HCC basic science research on the MUSC campus. The individual should have extensive experience and a record of accomplishment in a major area of cancer biology. The position requires proven leadership, strong interpersonal skills, and an excellent publication record and continuing extramural research funding. Qualifications commensurate with a full professor are required.

The Hollings Cancer Center was opened in 1993 and has experienced continual growth in both patient care and basic science research. The Medical University is the first institution in South Carolina to receive over \$100 million in research funding with approximately \$25 million relevant to cancer research. Due to the substantial increase in research, a major expansion of the Hollings Cancer Center is being started which will double the present size and add 48,000 square feet of new Class 1 laboratory space. Current basic science programs include cancer gene therapy, chemotherapeutics, chemoprevention, cancer immunology, signal transduction, apoptosis, and oncogenesis.

The Medical University of South Carolina is located in historic Charleston and offers unique opportunities for high quality living on the South Carolina coast. The University offers a strong and growing environment that is rich in interdisciplinary research, excellent laboratory space and the opportunity to be part of a growing research community. Evaluation of applications will begin March 1, 2000, and continue until the position is filled. Nominations or applications, which include a curriculum vita, statement of research interests, and administrative experience, should be sent to:

Yusuf A. Hannun, M.D.
Chair, HCC Basic Science Research Committee
Hollings Cancer Center
PO Box 250955
Room 236
Charleston, SC 29425



International Aspirin® Award 2000

Young Researchers' Aspirin® Award

The Young Researchers' Aspirin® Award's objective is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award's value is DM 20,000.

Entries will be judged by an international scientific committee representing basic and clinical research.

Young researchers are invited to order the complete application documents at the following address:

International Aspirin® Award
c/o Bayer AG
Consumer Care Business Group
Integrated Communications
Building C 151
D-51368 Leverkusen/Germany
Fax: ++49-214-30-29554

Deadline for submission is April 30th, 2000
(Date of receipt of documents by Bayer AG)



Be A Part of the Chemical and Energy Revolution.

BlackLight (SM TM) Power, Inc. is developing the most revolutionary chemical and energy process. In the last ten years, support for the BlackLight (SM TM) process has been gaining widespread acceptance and subsequent practical applications. There is incredible growth potential for those who want to be on the threshold of a new and dynamic industry. Join us and discover how powerful your future can become. We have the following excellent opportunities available.

Ph.D. level Analytical and Inorganic Chemists

Working in a dynamic environment, your main function will consist of novel inorganic chemical synthesis (isolate, identify, and purify) in bench scale experiments. Knowledge of chemical processes, high temperature and heterogeneous catalysis is preferred. Familiarity with one or more of the following is required: NMR, XPS, MS, IR, Raman spectrometry, XRD, electrochemistry, inert atmosphere, schlenk, and high vacuum techniques. Must work effectively, both independently and within a research team and possess strong organization, communication, problem-solving and trouble-shooting skills.

Analytical Instrumentation Research Assistants

Must have operational experience utilizing XPS, TOF-SIMS, NMR, or ESI-MS. These individuals will be primarily responsible for operating analytical equipment to support research teams conducting isolation, purification and identification of novel inorganic compounds.

Scientists and Engineers

Will conduct experiments and build pilot reactors involving high temperature gases and chemicals in bench and pilot scale systems. Knowledge of thin film, plasma discharge, vacuum systems, inorganic chemical processes, heat transfer, high temperature materials, data acquisition systems and controls are preferred. A minimum of 3 years experience desired. Chemistry, Physics, Materials Science, and Mechanical Engineering backgrounds are desired.

Technicians

Will assist research teams conducting bench and pilot scale experiments involving high temperature gases and chemicals and will be involved in the design and construction of process reactor systems. Ideal candidates will have a minimum of 3 years employment experience and possess a basic understanding of electronics, vacuum systems and/or chemistry. A working knowledge of one or more of the following skills is also required: assembling, machining, metal working, welding, woodworking.

Battery Scientist and Engineers

These individuals will study electrochemical properties of proprietary inorganic hydrides as part of our battery development team. The ideal candidate will have experience developing and testing compounds for use within primary and secondary batteries. The project will include formulating and characterizing compounds, and studying compounds in test cells.

Electrical Engineers

Will build, install, and design various electronic devices using low voltage high gain instrumentation amplifiers, medium power constant current devices, voltage dividers, sensing alarms and indicators, photo diodes and photomultipliers, silicon controlled rectifiers.

Blacklight Power Inc. offers a competitive salary and comprehensive benefits package. Interested applicants should reference the position you are seeking and ad code S3300DS directly on your resume' and fax it to: Human Resources, (609) 490-1066 or e-mail it to dsoroka@blacklightpower.com. EOE.



**BLACKLIGHT
POWER INC.**

VAN ANDEL RESEARCH INSTITUTE

Postdoctoral Fellowships

Van Andel Research Institute, an independent organization dedicated to becoming one of the world's pre-eminent private medical research institutes by building on the extraordinary discoveries in molecular biology and genetics, is recruiting world-class investigators.

George F. Vande Woude, PhD – Research Director
Molecular basis of cancer.

Principal Investigators

Art Alberts, PhD – Cell Structure and Signal Integration
Intracellular signalling networks that regulate proliferation and cell shape/motility.

Nick Duesbery, PhD – Developmental Cell Biology
Cellular aspects of oogenesis and meiosis vertebrate model organisms.

Han-Mo Koo, PhD – Cancer Pharmacogenetics
Molecular mechanisms underlying chemosensitivity of tumor cells and the development of novel therapeutic strategies.

Cindy Miranti, PhD – Integrin Signaling and Tumorigenesis
Integrin signalling and function in tumorigenesis.

Bin Tean Teh, MD, PhD – Cancer Genetics
Identification and investigation of the functions of cancer-related genes in endocrine tumors and nasopharyngeal cancer.

Craig Webb, PhD – Tumor Metastasis and Angiogenesis
Molecular mechanisms of tumor metastasis and angiogenesis in the identification of novel targets for therapeutic intervention.

Michael Weinreich, PhD – Chromosome Replication
Cell cycle control of DNA replication and checkpoint responses to the inhibition of replication fork movement.

Bart Williams, PhD – Cell Signaling and Carcinogenesis
The Wnt signaling pathway in carcinogenesis and the development and utilization of mouse model systems to study tumor initiation and progression.

Nian Zhang, PhD – Mammalian Developmental Genetics
Pattern formation during mammalian embryo development and germ cell development.

Opportunities in our Special Programs

Brian Cao, PhD – Monoclonal Antibody Production
Production, characterization, engineering and humanization of monoclonal antibodies for cancer research, developmental biology and clinical studies.

Brian Haab, PhD – Microarray Technology
Protein and DNA microarray technology, discovery of novel diagnostic protein and DNA markers in cancer.

Jim Resau, PhD – Analytical, Cellular & Molecular Microscopy
Analytical and molecular quantification of imagery produced using confocal, multiphoton and electron microscopy.

Fellowships are awarded on an equal opportunity basis to recent recipients of a PhD, MD or an equivalent degree in the biological or biochemical sciences. Appointments are made for one year, renewable annually with supervisor's approval, for a total of three years.

Annual stipends generally start at \$32,000 depending upon experience.

Applications are accepted at any time during the calendar year for open positions. Interested candidates are encouraged to apply well in advance of their availability date.

To apply, send a letter describing your research interests, curriculum vitae, and the names and addresses of three references to:

Investigator's Name of Interest
ATTENTION: Human Resources Department
Van Andel Research Institute
201 Monroe N.W. Suite 400
Grand Rapids, Michigan 49503

Website: www.vai.org
Equal Employment Opportunity

The Laboratory of Cardiac Energetics in the National Heart, Lung & Blood Institute, NIH, is searching for a Staff Scientist in biomedical imaging to pursue research in real-time MR imaging.

The candidate should have a Ph.D. in electrical engineering, biomedical engineering, or related disciplines. The candidate should have experience in MR physics, pulse sequence design and coding. The laboratory has superb resources for the development of novel imaging devices and applications. The focus of research at the current time is real-time MR guided interventions and cardiac imaging. A dedicated 1.5T high performance system will be available full-time for the development of new techniques. In addition, the laboratory has expertise in physiological and medical applications, with a dedicated system for clinical cardiac applications at Suburban Hospital, making this environment ideal for the development of novel imaging methods. Contract appointment and salary are dependent on experience.

Applicants should send a CV, brief statement of research interests, and three letters of reference to **Ms. Caroline Leake, Building 10 Room B1D416, 10 Center Drive MSC 1016, Bethesda, MD 20892-1016**. Applications are due six weeks after posting of this announcement.

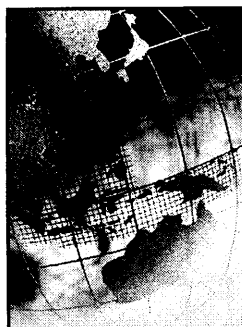
NIH is an Equal Opportunity Employer.

The Laboratory of Cardiac Energetics, National Heart, Lung & Blood Institute, NIH is offering a postdoctoral Research Fellow position in the laboratory of Dr. Robert S. Balaban for an individual who would investigate the cellular signaling pathways involved in the control of mitochondrial energy conversion and other functions.

Research will focus on the use of confocal microscopy on living isolated heart and skeletal muscle cells under conditions where active contraction and mechanical loads are applied. Studies will be conducted on control and genetically manipulated mice modified for numerous metabolic perturbations to help understand this critical cellular communication network. Multi-parameter studies on isolated mitochondrial/sub-mitochondrial particles and enzymes from these preparations will also be conducted to confirm molecular mechanisms. Applicants should have completed a Ph.D. or M.D. and be highly motivated individuals interested in joining a progressive research program. Experience in confocal microscopy is desirable.

Interested candidates should submit a statement of interest, curriculum vitae, bibliography, and a list of three references to **Ms. Caroline Leake, Building 10, Room B1D416, 10 Center Drive MSC 1016, Bethesda, MD 20892-1016**.

NIH is an Equal Opportunity Employer.



Focus on
the Discovery
and
Development
of new
and innovative
therapeutic
agents.

Building a Winning Team

Pharmacia & Upjohn, a global pharmaceutical company, is determined to become one of the best-managed and strongest scientific companies in the industry. Our research philosophy values creativity, scientific rigor, teamwork, and personal as well as professional satisfaction. In anticipation of continued industry success, we are actively recruiting across many disciplines for all levels of professionals. We invite you to be an integral member of our scientific team. The following challenging opportunities are now available in our **Kalamazoo, MI** facility:

NEUROSCIENTISTS, PhD

• Position #900026

We seek Neuroscientists to develop an innovative preclinical drug discovery research program focused on treatment of psychiatric diseases. Requires a PhD in Neuroscience or a related discipline, a minimum of 3 years relevant postdoctoral experience, and a strong background in integrative neurobiology & molecular neuroscience in order to build a successful discovery research strategy that is based on CNS targets identified by genomic platforms. The ideal candidate will have an in-depth knowledge of the pathophysiology & pharmacotherapy of psychiatric diseases. A proven track record of designing/implementing a multidisciplinary research program aimed at probing the functions of neural systems associated with psychiatric pathophysiology is desired. Selected candidates will work in a multidisciplinary team environment that utilizes cutting-edge science & technology to develop novel therapeutic agents for schizophrenia, major depressive disorder, anxiety disorders, & migraine. Our CNS Discovery Program Teams offer an exciting & challenging research environment & provide opportunities to incorporate innovative research paradigms within individual laboratories.

NEUROPHARMACOLOGIST, BS/MS

• Position #900158

The selected candidate will be expected to conduct testing of potential therapeutic agents in animal models of neurological disorders. Requirements include extensive experience in small animal surgery, a BS or MS in Pharmacology, Biology or related field, and basic training/knowledge of the nervous system. Experience with computer analysis of physiological parameters (blood pressure, blood gases), conventional data sets and digitized images is preferred. Some experience with histologic techniques is desirable.

BIOCHEMIST, BS/MS

• Position #900159

The individual we select will work with a senior scientist and a multi-disciplinary team to define mechanisms of drug resistance. Techniques will involve radioisotopes and other labeled probes to identify specific sites of interaction of drugs and drug candidates. Knowledge concerning the mechanism of drug action and mechanism of drug resistance will be used to help design improvements in drug discovery techniques. Requirements include a BS or MS in Biochemistry, Cell Biology, Pharmacology or related field combined with a solid understanding of basic biochemical techniques, including measurements of binding and transport processes.

If you can meet our high expectations, you can make a real difference with Pharmacia & Upjohn. **Apply online at www.pnu.com** or send your resume, **indicating appropriate Position #**, to: **Pharmacia & Upjohn, 7000 Portage Rd., 5003-024-001, Attn: Human Resources, Kalamazoo, MI 49001**. An equal opportunity employer, we value a diverse combination of ideas, perspectives, and cultures.



Pharmacia & Upjohn

Each Person Matters. Each Patient Matters.

Breakthrough at Berlex!

What does it take to make breakthroughs happen? Visionary people, innovative ideas, and breakthrough thinking. That's what you'll find at Berlex, located in the beautiful San Francisco Bay Area. Join us as we focus our research strategies to develop therapies to treat life-threatening and disabling diseases, including multiple sclerosis, heart arrhythmia, and cancer. Currently, we are seeking a dynamic Scientist to join our organization.

SCIENTIST

Drug Metabolism and Pharmacology

In this position, you will be part of an interdisciplinary Drug Metabolism/Bioanalytics Group supporting drug discovery efforts. You will be responsible for designing and executing studies aimed at evaluating pharmacokinetic properties of novel chemical entities (plasma profiles, ADME, protein binding, allometric scaling, pharmacokinetic simulations, etc.) in a high throughput format at the drug discovery stage. The successful candidate will have a PhD in pharmacokinetics, with cross-training in bioanalytics and 0-5 years experience. Formal training in pharmacokinetics and bioanalytics is highly preferred. The ability to generate, interpret and disseminate data in a clear and concise fashion is essential, as are excellent interpersonal, problem-solving and independent work skills.

As a Berlex employee, you will find an informal work environment that fosters teamwork and the spirit of collaboration. To apply online, visit our website at www.berlex.com. Please send your resume to: Berlex, HR Department/ Job Code: xhx800-002, 15049 San Pablo Ave., Richmond, CA 94804-0099. Principals only, please. EOE.

BERLEX

Texas A&M University Toxicology Faculty Position Department of Veterinary Physiology and Pharmacology

The Department of Veterinary Physiology and Pharmacology at Texas A&M University has reopened its search for a tenure track state funded position in Toxicology at the Assistant/Associate Professor level. The successful candidate will have an ongoing research effort with experience in molecular, genetic or environmental toxicology. Primary criteria for appointment will be a terminal degree in a biomedical or physical science, a publication record in peer-reviewed journals, demonstrated accomplishments in securing funding, and evidence of successful teaching.

Texas A&M is a land, sea and space grant university with more than 43,000 undergraduate and graduate students, plus medical and veterinary students. The Department of Veterinary Physiology and Pharmacology consists of 22 full-time faculty with interests in endocrine, cardiovascular and reproductive biology. A broad range of interdisciplinary research is possible with established campus-wide programs in toxicology, cardiovascular sciences, genetics, neurosciences, reproduction and nutrition. The graduate program in toxicology is supported in part by an NIEHS Training Grant in Environmental Toxicology. The new faculty member will also have access to research core facilities supported by the department, the NIH Center for Environmental and Rural Health and the Superfund Basic Research Program Project. College Station, home to Texas A&M University, is a mid-sized city located within an hour and a half of both Houston and Austin, Texas.

Candidates should send a curriculum vitae, letter of application, and names and address of three references to **Dr. Kenneth S. Ramos, Chair, Toxicology Search Committee; Department of Veterinary Physiology and Pharmacology; College of Veterinary Medicine; Texas A&M University, College Station, Texas 77843-4466**. Review of applications will begin on May 1, 2000 and continue until position is filled.



ASSISTANT/ASSOCIATE/ FULL PROFESSORS

The Center for AIDS Research at Duke University Medical Center has positions open for basic scientists to perform cutting edge research in AIDS and AIDS-related research areas. The Center for AIDS Research is an internationally renowned interdisciplinary and interdepartmental organization comprised of members of both basic and clinical science departments at Duke University Medical Center dedicated to developing new therapies for HIV, to understanding HIV pathogenesis, to devising strategies for immune reconstitution in AIDS, and to developing a HIV vaccine.

We are looking for M.D. or M.D./Ph.D. Tenure Track Faculty for Basic or Translational Research Positions in areas of HIV Pathogenesis, HIV Vaccine Development, AIDS Related-Pathogen Microbial Pathogenesis, and Mucosal Immunity in HIV Pathogenesis. Start date is July 2000.

Candidates should send a letter of interest along with a current curriculum vitae and the names of three references to: **Barton F. Haynes, M.D., Center for AIDS Research Director, Box 3258, Duke University Medical Center, Durham, NC 27710**.

**Duke University
Medical Center**

Duke University Is An Equal Opportunity/Affirmative Action Employer



**FOOD AND DRUG ADMINISTRATION
DEPUTY DIRECTOR**

CENTER FOR DRUG EVALUATION AND RESEARCH

The Food and Drug Administration (FDA) is seeking candidates for the position of the Deputy Director, Center for Drug Evaluation and Research (CDER). This position will be filled as either a Senior Executive Service, Senior Biomedical Research Service, under a Title 42 appointment or Commissioned Corps position. The incumbent serves as the principal spokesperson for the Director in planning, developing and administering the Center's broad national and international scientific and regulatory programs. The incumbent participates in providing executive leadership to the offices and other staff functions within the Center. This is an interdisciplinary position. Candidates must have a M.D. degree from an approved medical school, doctorate in biomedical science or a related field (such as Ph.D., D.V.M., Pharm.D., D.P.H.) or J.D. Candidates must also be widely recognized by peers for scientific accomplishments and leadership. The salary range is \$115,811 to negotiable. The position is located in Rockville, Maryland. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Mr. John Anderson at 301-827-4179 or from the Office of Personnel Management website at www.usajobs.opm.gov. The FDA is an equal opportunity employer and has a smoke-free environment.

**Mr. John Anderson
Office of Human Resources and Management Services
Food and Drug Administration
Room 7B-32, HFA-408
Parklawn Building
5600 Fishers Lane
Rockville, MD 20857**

Assistant Director, Technology Evaluation



SmithKline Beecham, an international producer of pharmaceuticals and consumer healthcare products is seeking an individual with a background in technology evaluation in a pharmaceutical R&D environment to serve as Assistant Director, Technology Evaluation, at its research and development facility in King of Prussia, PA. Principal duties include identifying technology gaps or needs within R&D segment and directing broad technology searches and analyses to fill identified gaps or meet perceived needs; screening and evaluating novel technologies identified or offered to the company and negotiate access to such technologies; supervising a staff of managerial and administrative support personnel.

Minimum requirements are a Ph.D. degree in Biological and Chemical Science and at least 3 years experience in the job offered or 3 years experience in pharmaceutical technology evaluation in a pharmaceutical R&D environment which shall include experience in evaluating opportunities in (i) human genetics including human genetics linkage, DNA sequencing and genotyping technologies; (ii) genomics including gene expression analysis technologies; (iii) medicinal chemistry including combinatorial chemistry technologies; (iv) gene and protein drug targets; (v) bioinformatics including sequence databases and analysis tools; and (vi) gene, protein and drug delivery technologies. Must also have two (2) years of experience in establishing technical objectives and milestones for technology access agreements and in valuing technology based on the competitive advantage provided through intellectual property protection.

SmithKline Beecham offers a competitive compensation/ benefits package. For confidential consideration please forward resume and salary requirements to SmithKline Beecham, c/o National Resume Processing, Ad Code: IFMADT, Mail Code: UW2214, P.O. Box 1070, Burlington, MA 01803. Indicating Ad Code is essential. For a full listing of current opportunities, or to submit a resume online, visit our website at www.sb.com/careers

Developing talent through equality
of opportunity MFD/V.

Realize your potential

SB
SmithKline Beecham
Pharmaceuticals



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 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.

DEVELOPMENT SCIENTISTS

We are seeking highly qualified scientists to fill key roles in the development of recombinant AAV vectors for human clinical trials. Successful candidates should have a strong background in virology/viral vectors, mammalian cell culture, vector purification, and process optimization, scale-up, and validation. A good working knowledge of relevant FDA regulations and cGMP required. Candidates must have a PhD degree, 3+ years of relevant experience, and excellent communication skills.

RESEARCH SCIENTIST

We have an opportunity for a scientist with a background in gene expression, genome structure/organization, or molecular virology to do basic research in the areas of AAV and adenovirus gene expression and viral replication. The selected candidate will work interactively with a group of four scientists and will use their findings to engineer and implement new methods for AAV vector production. The ideal candidate must be broadly trained, but must have a strong background in the micro and macro aspects of gene regulation and genome organization. Integrative thinking and the ability to creatively apply research findings are essential. Candidates must have a Ph.D. or MD and postdoctoral experience in a relevant field.

DEVELOPMENT ASSOCIATES

We are seeking experienced Development Associates to play key roles in assay development / product characterization, and optimization / scale-up of cell/viral culture, and vector purification processes. Candidates must have a BSc or MSc degree, and 3+ years relevant experience. Industry / cGMP experience a plus.

MANUFACTURING SUPERVISOR, CLINICAL VECTOR PRODUCTION

Great opportunity for an experienced individual to supervise and participate in the clinical production of AAV-based gene therapeutics according to cGMP practices. Candidate must have GMP experience, 5-8 years relevant, hands on experience and 1-2 years of supervisory experience. GMP experience is a requirement. Candidate must be flexible, have excellent communication skills, and demonstrated ability to work well in a team environment.

RESEARCH ASSOCIATE I-II, RESEARCH VECTOR PRODUCTION

Growth opportunity for the right candidate to participate in the production of AAV-based gene therapeutics for R&D use. This position requires 1-3 years of experience and Cell Culture experience is a must. GMP experience is a plus, but not required. Candidate must be flexible, have excellent communication skills, and demonstrated ability to work well in a team environment.

BUSINESS DEVELOPMENT MANAGER

Exciting opportunity for the right individual to be responsible for analyzing and assessing potential business opportunities. In conjunction with senior management, will evaluate technologies and make recommendations based on risk, market potential, and other business considerations. Will also be responsible for developing licensing objectives and assist in licensing negotiations.

Minimum requirements are a strong scientific background, preferably Ph.D. level, experience with licenses and technical assessments. Some travel required.

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: sdelph@avigen.com, fax: (510) 748-7155. EOE - Principals Only - NO CALLS.**



The University of Tennessee, Knoxville–Oak Ridge National Laboratory

Genome Science and Technology Graduate Program

The new Genome Science and Technology (GST) Graduate Program is designed to focus on developments in the biological and computational sciences that stem from genome sequencing efforts. The knowledge of complete genomes is revolutionizing the biological sciences, leading to new discoveries in comparative genomics, the health sciences, and environmental biology. GST students will be trained in emerging areas of genomics, structural biology, proteomics, computational biology/bioinformatics, and bioanalytical technologies.

The GST program takes advantage of the faculty, facilities, and research programs at The University of Tennessee, Knoxville and the Oak Ridge National Laboratory. This novel program combines an academic environment with the team-oriented approach to large research initiatives at the national laboratory. Faculty members at the two campuses have expertise in cutting-edge research utilizing mammalian genetics and mutagenesis, spectroscopy, high field NMR, x-ray crystallography, computational modeling, mass spectrometry, neutron scattering, and microarray technology. Various biological model systems are investigated, featuring the Oak Ridge National Laboratory Mouse Genetics Research Facility, one of the world's largest resources for studies in mouse genetics and mutagenesis for functional genomics.

We are seeking outstanding students with backgrounds in the biological, physical or computational sciences. Graduate student stipends are \$18,000 with full tuition waiver.

To apply visit: <http://1sd.ornl.gov/gst/>
Graduate Program in Genome Science and Technology
Dr. Jeffrey M. Becker, Director (jbecker@utk.edu)
1060 Commerce Park
Oak Ridge, TN 37830-8026

UTK is an EEO/AA/Title VI/Title IX/Section 504 /ADA/ADEA Employer. ORNL, a multi-purpose research facility managed by Lockheed Martin Energy Research Corporation for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse work force.



MAYO CLINIC POSTDOCTORAL FELLOWSHIP ONCOLOGY RESEARCH

A postdoctoral position is available immediately to study the human checkpoint proteins, hRad9, hHus1, hRad1, and hRad17. Ongoing studies include characterizing the biochemical and cellular functions of these proteins in the activation of DNA damage-inducible checkpoints.

Applicants should have a Ph.D. with experience in molecular biology and biochemistry. Send a full curriculum vitae with name, address and phone number of three references.

Larry M. Karnitz, Ph.D.
Division of Developmental Oncology
Research
Mayo Clinic
200 First Street SW
Rochester, MN 55905
e-mail: karnitz.larry@mayo.edu

Mayo Foundation is an affirmative action and equal opportunity employer and educator.



CANCER research

A Science Advertising Supplement • 31 March 2000 • Reserve space by 14 March 2000

Benefits for All Advertisers:

- **Reach Nearly 156,000***
Total Paid Circulation
- **Free Posting on Science Careers**
for Four Weeks
- **Bonus Distributions** at five
international scientific meetings

1. Science June 1999 BPA Publisher's Statement

Deadlines:

Issue date 31 March 2000
Space reservation 14 March 2000
Material closing 21 March 2000

Contact:

U.S.: ... Gabrielle Boguslawski 718-491-1607
Europe: ... Debbie Cummings +44 (0) 1223 326 500
Japan: Mashy Yoshikawa +81 3 3235-5961
Australia: Keith Sandell +61 29922-2977

Science
www.sciencecareers.org

**Post-Doctoral Research Fellowship
in Endocrinology at the
National Institutes of Health**

Post-doctoral position available in the Molecular Regulation and Neuroendocrinology Section, Clinical Endocrinology Branch, NIDDK at the NIH. Our laboratory studies transcriptional regulation by thyroid hormone and steroid hormone receptors and molecular mechanisms of thyroid cancer. We currently are using cDNA microarrays, transgenic and knockout mice, and green fluorescent proteins to study these areas. Strong background in molecular biology required. Applicants must have a Ph.D and/or M.D. as well as 0-5 years post-doctoral experience. Candidates must be U.S. citizens or permanent residents. Please send c.v. and three references to:

Paul M. Yen, M.D.

**Mol. Regulation and Neuroendocrinology
Section, Clinical Endocrinology Branch,
NIDDK/NIH, Building 10, Room 8D12,
9000 Rockville Pike, Bethesda, MD 20892
TEL: 301-594-6797; FAX: 301-402-4136
e-mail: pauly@bdg10.nidk.nih.gov**

NIH is an Equal Opportunity Employer

Postdoctoral Biochemist



The Procter & Gamble Company has an opening for a postdoctoral fellow to address novel mechanisms of angiogenesis using advanced proteomics approaches within our pharmaceutical drug discovery organization.

The selected individual will work with a multi-disciplinary team to coordinate and execute experiments designed to address mechanisms of angiogenesis. This will include establishing robust tissue and/or cell culture model systems, protein separation on 2D gels, image analysis, protein identification by mass spectrometry, and correlating the protein changes to testable hypotheses regarding mechanisms of angiogenesis. A Ph.D. in biochemistry/cell biology or related fields is required. The successful candidate will have demonstrated communication

and collaborative skills. Preference will be given to candidates with experience in tissue/cell based assays and a strong interest in proteomics techniques.

The Procter & Gamble Company is a world leader in the research, development, manufacture and marketing of a wide variety of health care, beauty care, laundry & cleaning, cosmetics & fragrances, food & beverage and paper products. P&G's annual sales exceed \$38 billion and our annual R&D investment is more than \$1.7 billion. P&G offers a competitive salary and benefits package placing us in the top 5% of U.S. firms. The Company's R&D organizations provide excellent opportunities for both personal and professional growth.

Procter & Gamble

*If you meet the qualifications for this position, please apply on-line at P&G's web site at: www.pg.com/careers/applynow. Please use ad code **NAUSR000195**.*

NO agency referrals. Applicants must be presently authorized to work in the U.S. on a full-time basis.

Procter & Gamble is An Equal Opportunity Employer.



**THE
BLOOD
CENTER**
Blood Research
Institute

**POST-DOCTORAL
RESEARCH
OPPORTUNITIES
Immunobiology of
Hepatitis C Virus**

If you are an outstanding individual with background in immunology, virology, or molecular immunology, you are invited to apply for one of three positions in a growing, NIH-funded program to study mechanisms of persistence in chronic HCV infection. Ongoing studies include regulation of the human response to HCV antigens, the role of mutation in HCV modulation of the human immune system, and responses to HCV in MHC transgenic mice. Though preference will be given to applicants eligible for NRSA support (American citizens or permanent residents), exceptional, qualified foreign nationals will also be considered. More information about this opportunity can be found at the web site below. Your CV, a brief description of your experience and longer term goals, along with the names and addresses of three references should be sent to:

**David D. Eckels, PhD
Blood Research Institute
The Blood Center
P.O. Box 2178
Milwaukee, WI 53201-2178**

**Email: ddeckels@bcsew.edu
<http://www.bloodctrwise.org/research/faculty/Eckels/eckels.html>**

The Blood Center is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply.

**NATIONAL INSTITUTES OF HEALTH
National Institute of Allergy and Infectious Diseases**

Tenure/Tenure-Track Position

The Laboratory of Intracellular Parasites, NIAID, Rocky Mountain Laboratories, Hamilton, Montana, has a tenure/tenure-track position available to pursue independent studies applying contemporary cell biology approaches to characterize signal transduction between intracellular parasites and the eukaryotic host cell that serve to regulate membrane trafficking and vesicle maturation in the host cell. Preference will be given to those candidates with experience or interest in facultative intracellular bacteria. The candidate will utilize cell culture models to define: (i) membrane trafficking and vacuole biogenesis in infected eukaryotic cells, (ii) characterize eukaryotic cell signaling pathways that are activated in response to infection by specific intracellular parasites, and (iii) identify bacterial factors secreted by the pathogen to modify these host responses. Candidates for the tenure-track position must hold a Ph.D., D.V.M., or M.D. degree and have a minimum of 2 years post-doctoral experience in relevant areas of investigation. Experience in cellular biology, molecular biology, and cell culture models of infection is preferred. Resources and appointment mechanism will be commensurate with experience.

A curriculum vitae, bibliography, brief statement of research interests and three letters of reference must be submitted by April 7, 2000, to Dr. Tom G. Schwan, Chairman of the Search Committee, c/o Lakeasha Mingo, Executive Secretary, Building 20, Room 4A26, 10 Center Drive, Bethesda, Maryland 20892-1356.

The NIH is an Equal Opportunity Employer



UNIVERSITY COLLEGE LONDON

Department of Anatomy and Developmental Biology

Lecturership(s)

Tissue remodelling/cell movements

Subcellular traffic of organelles or molecules

*Real-time imaging of gene expression or
molecular interactions*

Located in the heart of London, this large biomedical science department (5* in RAE) in one of the UK's leading research universities has a vacancy for one or more permanent members of academic staff. Initial appointments will be on the lecturership salary scale (range £22,945 - £32,199 including London Allowance) and we will reward successful independent research with rapid promotion.

We seek scientists with significant post-doctoral experience and a good publications record. The successful applicant(s) will join a young and interactive group of scientists studying the dynamics of tissue remodelling, cell movements, subcellular traffic of organelles or molecules and/or real-time analysis of gene expression and/or molecular interactions in living systems and should therefore ideally have an interest in one or more of these areas of research. They will be expected to develop an independent research programme, and some financial assistance will be available to assist in its initiation. They will also be expected to take an active part in undergraduate and postgraduate teaching, gradually increasing involvement over 3 years.

To apply, please send 2 copies of a full CV, including a brief outline of current research and future plans together with the names and addresses of three referees to: Lecturership ref DYN, Department of Anatomy and Developmental Biology, UCL, Gower Street, London WC1E 6BT, UK. Further details are available from the current Acting Head of Department, Professor AR Lieberman, or Professor CD Stern (email cds20@columbia.edu), the Head of Department from October 2000.

The closing date for applications is Tuesday, 2nd May 2000.

Working Toward Equal Opportunity

Phase-1 Molecular Toxicology is a leader in high throughput and molecular toxicology. Our continued growth has created a great opportunity in our new laboratory facility located in Santa Fe, New Mexico for a select group of experienced, self-motivated professionals to join our multidiscipline team. Phase-1 is focused on developing and using molecular assays to predict the toxic impact of compounds and other entities on humans. The primary technology in use today is **gene expression** based on microarrays.

Research Associates

As a Research Associate, you would work in R&D or Client Services under the supervision of a Scientist conducting experiments in molecular toxicology. Candidates must be computer literate as these technologies are data intensive. Qualifications must include Masters Degree in Molecular Biology, Biochemistry, or Molecular Toxicology. A working knowledge of gene expression technology is highly desired.

Post-Doctoral Positions

Phase-1 has Post-Doctoral openings for Ph.D.s in Molecular Biology, Molecular Toxicology, and Biochemistry to work in R&D or Client Services under the supervision of a Scientist or Manager conducting technical projects in molecular toxicology. Candidates must be computer literate as these technologies are data intensive. A working knowledge of gene expression technology is highly desired.

Scientist/Senior Scientist Positions

Requirements include a Ph.D. in Molecular Biology, Molecular Toxicology, or Biochemistry. These positions will work in R&D under the supervision of the Lab Director managing technical projects in molecular toxicology. Candidates must be computer literate as these technologies are data intensive. A working knowledge of gene expression technology is highly desired.



We offer competitive salaries, commensurate with experience. If you are interested in an exciting opportunity to work with a dynamic team, send you resume to:
Phase-1 Molecular Toxicology, HR Department
2904 Rodeo Park Drive East, Santa Fe, New Mexico 87505.
Fax: 505-471-8205 • email: cbertram@phase1tox.com.

UNIVERSITY AT ALBANY
STATE UNIVERSITY OF NEW YORK

Research Scientist Positions

The Center for the Study of Comparative Functional Genomics [http://www.albany.edu/genomics/] at the University at Albany is a new interdisciplinary research facility focused on functional genomics and mouse genetics. It is located on the research campus of the University at Albany in Rensselaer, NY. The research campus is the site of the University's School of Public Health and several high technology companies, a new transgenic mouse facility and state-of-the-art research core facilities in molecular biology and biochemistry, cell culture, and bioinformatics. Currently 5 new research positions are available to staff those facilities. Applications are invited from candidates with experience in the following areas:

Director: Molecular Biology Core Facility. We seek a Ph.D. level scientist with a strong background and experience in molecular biology. The principal function of the Director will be to manage and operate the molecular biology and biochemistry cores as service facilities for the Center. In addition, opportunity exists for independent research and an adjunct faculty appointment at the University.

Director: Transgenesis and Cell Culture Facility. We seek an M.S. level scientist with experience in micromanipulation and the management of an embryonic stem cell facility. Preference will be given to candidates who can also participate in the design and construction of genomic targeting vectors.

Research Associates (3 - B.S./M.S. level degree). We seek technical staff with experience in molecular, cell and/or computational biology. Qualifications should include experience in genomic cloning, gene expression, and gene and protein sequencing or cell and tissue culture, and/or computational sciences.

Please direct responses to:

Michele Anderson
Center for the Study of Comparative
Functional Genomics
Department of Biological Sciences
University at Albany, SUNY
1400 Washington Avenue
Albany, NY 12222

Indicate which position, include a CV and three letters of reference or the names and e-mail addresses of three references.

The University at Albany is an Equal Opportunity/Affirmative Action employer.



Head, Office of Education and Training

Division of Cancer Epidemiology and Genetics

The Division of Cancer Epidemiology and Genetics (DCEG), National Cancer Institute (NCI), National Institutes of Health (NIH), is accepting applications for a scientist with experience in training post-doctoral fellows and in epidemiologic research. The incumbent of this newly created position will direct the education and training programs of the Division, serving as the academic dean, representing the Division in NCI and NIH-wide training activities, and overseeing training and career development for all DCEG scientific staff. This includes establishing an advisory committee of senior scientists, directing the development of new fellowship training opportunities, and evaluating policies and practices for training and education within the Division. The incumbent coordinates the training of post-doctoral fellows, doctoral candidates, graduate and baccalaureate students, summer students, and interns. In particular, he/she will develop and manage a comprehensive recruitment plan; evaluate procedures for selection of fellows; and work with mentors and fellows to assure successful research training. He/she will design and implement ongoing educational programs for all scientific staff, including seminars and lectures. He/she may also serve as a researcher who plans, develops, conducts, and interprets research projects using epidemiologic and biostatistical methods to evaluate the environmental and host determinants of cancer. The position currently is supported by a program analyst.

This position is located at 6120 Executive Boulevard, Rockville, MD at the Executive Plaza South building.

QUALIFICATIONS: A Ph.D., M.D., or equivalent degree in an academic field related to the health sciences appropriate to the work of the position. A degree in epidemiology or biostatistics is highly desirable. Experience in training and mentoring post-doctoral scientists and in designing, conducting, and analyzing epidemiology projects is also highly desirable. Applicants for Civil Service and USPHS Commissioned Corps appointments must be citizens. Other appointment mechanisms and incentives may apply in individual circumstances based on experience and expertise. Salary for Civil Service positions range from \$71,954 to \$110,028 depending on experience and education. Excellent benefits include health and life insurance, vacation and sick leave, retirement, training opportunities, and flexible work schedules. **Deadline for applications: April 30, 2000**

HOW TO APPLY: Interested candidates should send their curriculum vitae with a copy of college transcripts to: National Cancer Institute, Division of Cancer Epidemiology and Genetics

6210 Executive Boulevard, Executive Plaza South, Room 8052

Rockville, Maryland 20892

ATTN: Sara Sutphin

NIH IS AN EQUAL OPPORTUNITY EMPLOYER AND HAS A SMOKE FREE ENVIRONMENT

The Nemours Foundation

**Discover the difference
YOU can make in a
child's life...**

discover
duPont!
hospital
for children

Postdoctoral Fellowships

The Nemours Research Program at the Alfred I. duPont Hospital for Children presently has the following Postdoctoral Fellowship available:

**Laboratory of
Epithelial Cell Biology**

A Postdoctoral Fellow position is available in the Laboratory of Epithelial Cell Biology at the Alfred I. duPont Hospital for Children in Wilmington, DE. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis and the biochemical basis for the relationship between the loss of CFTR activity and CF pathophysiology. Recent work from the lab has identified drugs with therapeutic potential that we are now testing in cell culture systems. Knowledge of molecular biology, protein biochemistry and bacteriology are essential. Send a cover letter, indicating research interests, and curriculum vitae with the names of three references to: **Dr. William Reenstra, Research, The Alfred I. duPont Hospital for Children, PO Box 269, Wilmington, DE 19899. Fax: (302) 651-6881, or email: wreenstr@nemours.org.**

The Alfred I. duPont Hospital for Children is located on a 300-acre estate with a park-like setting in Wilmington, Delaware. We offer the cultural and professional advantages of larger cities given our convenient location within 30 minutes from downtown Philadelphia, 2.5 hours from Washington, D.C., and 3 hours from New York City. We offer an excellent salary & benefits package and on-site day care. EOE, M/F.

ALFRED I.

duPont

HOSPITAL FOR CHILDREN

For more information about the Alfred I. duPont Hospital for Children and our employment opportunities, visit our Web site:
www.KidsHealth.org



POSTDOCTORAL FELLOWSHIPS

The Center for AIDS Research at Duke University Medical Center has positions open for postdoctoral fellows to perform cutting edge research in the areas of AIDS pathogenesis, murine reconstitution in AIDS, HIV vaccine development, mucosal immunity and HIV-related opportunistic infections. Start date is September 2000.

The specific senior investigators and the areas of interest that are available for postdoctoral positions include:

- Dr. Michael Greenberg, HIV Pathogenesis
- Dr. Barton F. Haynes, HIV Vaccine Development, Immune Reconstitution in HIV Infection, Thymus and T Cell Immunobiology
- Dr. Celia Labranche, HIV Pathogenesis, HIV co-receptor usage
- Dr. Hua-Xin Liao, HIV Vaccine Development
- Dr. David Montefiori, HIV Pathogenesis and HIV Vaccine Development
- Dr. Herman Staats, HIV Vaccine Development and Mucosal Immunity
- Dr. Kent Weinhold, HIV Pathogenesis and Host-Virus Interactions

Candidates should send a letter of indicating interest along with a current curriculum vitae and the names of three references to: **Barton F. Haynes, M.D., Center for AIDS Research Director, Box 3258, Duke University Medical Center, Durham, NC 27710.**

**Duke University
Medical Center**

Duke University Is An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION VIROLOGY/IMMUNOLOGY/GENETICS University of Pittsburgh

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh, is seeking outstanding applicants for two tenure-track positions of **ASSISTANT** or **ASSOCIATE PROFESSOR** in molecular virology, immunology, or genetics of HIV or other viruses. The Department is committed to continued development of a strong multidisciplinary program where in molecular biology, immunology, and the genetic basis of viral disease are integrated with ongoing clinical, natural history, and vaccine studies. Candidates should have a Ph.D., M.D., or equivalent and sufficient experience to establish a funded independent research program. Salary and starting date are negotiable. Send curriculum vitae and names of three references to: **Charles R. Rinaldo, Jr., Ph.D., Chairman, A427 Crabtree Hall, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA 15261. Telephone: 412-624-1637; FAX: 412-624-4953; e-mail: rinaldo+@pitt.edu.** To ensure full consideration of all applicants, applications will be reviewed until the position is filled. Applicants for this position should refer to Job Numbers 009610/02296. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK POSITION DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF TENNESSEE MEMPHIS

The Department of Pharmacology of the University of Tennessee College of Medicine is enlarging its neuropharmacology faculty and is seeking to fill a tenure-track position at the level of **PROFESSOR**. Applicants must have a Ph.D. or M.D./Ph.D. and a strong record of extramural support for a highly competitive research program. Individuals taking fundamental biobehavioral approaches to drug abuse and mental health research who look forward to collaboration in a highly interactive research environment with a large, well-funded neuroscience community will be given preference. This is a 12-month appointment that includes teaching responsibilities in both the professional and graduate colleges. Excellent laboratory facilities and start-up funding are available. Applicants should submit a curriculum vitae, three letters of reference, and a detailed description of their research program to: **Burt M. Sharp, M.D., Chair, Department of Pharmacology, The University of Tennessee College of Medicine, 874 Union Avenue, Memphis, TN 38163.** Applications are due by March 31, 2000. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Women and minorities are especially encouraged to apply.*

BIOLOGY FACULTY: The Biology Department at Lake Superior State University (LSSU) is seeking applicants for an academic year (nine-month), full-time sabbatical replacement position beginning August 2000. The successful applicant may be expected to teach courses and laboratories in animal physiology and embryology, general biology, and zoology, as well as participate in Departmental advising and service. Qualifications: Applicants must have an M.S. in biology (Ph.D. preferred) and a commitment to excellence in undergraduate teaching and research. Submit a letter of application, curriculum vitae, and three letters of recommendation to: **Biology Faculty Search, Human Resources Office, Lake Superior State University, 650 West Easterday Avenue, Sault Ste. Marie, MI 49783.** Application information can be FAXED to: 906-635-2111; e-mail: humanresources@gw.lssu.edu. For additional information, contact: **Human Resources Office at Telephone: 906-635-2213.** Visit our website: (<http://www.lssu.edu>) for additional information about Lake Superior State University and the local community. Applications will be accepted until the position is filled.

An Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

PRINCIPAL INVESTIGATORS INSTITUTE OF MOLECULAR AND CELL BIOLOGY Singapore

The Institute of Molecular and Cell Biology (IMCB), Singapore, is a major center for research in the life sciences that has established an international reputation in cell signaling; cell division; cell motility and cell shape; protein transport; cell death, differentiation, and development; and host cell-virus interaction. The mission of the Institute is to explore new ways of excelling in biological research, to educate and nurture scientists, and to capitalize on the intellectual marketplace. The IMCB is a superbly equipped facility and has excellent computer resources. Singapore is investing heavily in the life sciences and is recognized as a hub for biomedical research and development.

As part of the IMCB's expansion program, we are now inviting applications from talented and highly motivated individuals to build world-class research groups and conduct innovative research in any area of molecular cell biology or use genetic approaches to study developmental biology in mammalian or non-mammalian model organisms. This is an exceptional and unique opportunity for ambitious scientists who wish to achieve their career goals in a rapidly growing and dynamic region of the world. Their research programs will be totally funded and supported at all levels. Participation in international scientific conferences and collaborations with local and overseas investigators are all strongly encouraged. Successful candidates will have a strong track record of international publications and will be appointed at the level of **Principal Investigator (from ASSISTANT PROFESSOR to FULL PROFESSOR)**. Contract duration and tenure are negotiable.

An extremely attractive and competitive remuneration package is offered, which includes a substantial gratuity payment on completion of contract (noncontributory), medical cover, and a general housing subsidy in the context of a low rate of income tax in Singapore. For more detailed information about the IMCB, visit our website: www.imcb.nus.edu.sg.

Applicants should post, FAX, or e-mail their curriculum vitae, together with the names of three references, to: **The Director, Institute of Molecular and Cell Biology, an institute affiliated with The National University of Singapore, 30 Medical Drive, Singapore 117609 Republic of Singapore. FAX: Singapore 777-0402; e-mail: mcbleemk@imcb.nus.edu.sg.**

ASSISTANT UNIT LEADER, WILDLIFE TEXAS COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT Texas Tech University

Qualifications: Ph.D. in wildlife science or closely related field. Wildlife habitat ecologist with experience in nongame bird, mammal, or herpetile ecology in grasslands. Ability to generate research funding and to work cooperatively with natural resource agencies to conduct interdisciplinary research with application to local, regional, and national resource issues. Demonstrated publication record. Direct graduate students in Department of Range, Wildlife, and Fisheries Management. Teach one graduate course per year in applicant's area of expertise. Appointment: The successful applicant will be an employee of the U.S. Geological Survey at the GS-12 level. The individual will also hold an appointment in the Department of Range, Wildlife, and Fisheries Management, Texas Tech University, as an **ASSISTANT PROFESSOR**. Refer to website: <http://www.usajobs.opm.gov> for application instructions and full job announcement. This position is within the Cooperative Research Units Program of USGS and will be filled according to federal hiring procedures. Do not send application materials to the Texas Tech unit. Direct questions (but not application materials) to: **Loren Smith; Telephone: 806-742-2842; e-mail: L.M.Smith@ttu.edu.** Individuals from underrepresented racial, ethnic, and gender groups are encouraged to apply.

POSITIONS OPEN

CELL/MOLECULAR BIOLOGY FACULTY POSITION Texas A&M University System Health Science Center Baylor College of Dentistry

The Department of Biomedical Sciences at Baylor College of Dentistry is seeking an outstanding scientist in the broad area of cell/molecular biology with an interest in developmental biology and/or neuroscience for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Baylor College of Dentistry, a member of the Texas A&M University System Health Science Center, is located within the Baylor University Medical Center in Dallas, Texas. The successful applicant will also be a member of the A&M HSC Graduate School of Biomedical Sciences. Applicants should have a Ph.D. as well as evidence of independent research through publications in peer-reviewed journals and competitiveness for research funding in one or more of the following areas: developmental craniofacial biology, molecular genetics, and neuroscience. Teaching responsibilities may include biochemistry, cell/molecular biology, and/or neuroscience to D.D.S., Ph.D., and postgraduate trainees. Please send curriculum vitae with a brief statement of research interests and names of three references to: **Dr. Robert J. Hinton, Cell/Molecular Biology Search Committee, Department of Biomedical Sciences, Baylor College of Dentistry, Texas A&M University System Health Science Center, 3302 Gaston Avenue, P.O. Box 660677, Dallas, TX 75266-0677. E-mail: bhinton@tambcd.edu; website: <http://www.tambcd.edu/>.** *Baylor College of Dentistry, Texas A&M University System Health Science Center, is an Equal Opportunity Employer committed to excellence through diversity.*

COMMUNITY ECOLOGIST

The Department of Biological Science at Florida International University seeks to fill a tenure-track position for a **Community Ecologist** at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D. degree by the start of the appointment, and postdoctoral experience is desirable. The successful candidate will be expected to participate in both graduate and undergraduate teaching and lead a vigorous program of externally funded independent research. The Department of Biological Science at FIU has 34 full-time faculty members, with 14 in the area of ecology and evolutionary biology. Current faculty strengths include tropical biology, marine and aquatic biology, wetland ecology, biodiversity studies, and systematics. We are members of the Organization for Tropical Studies and the Fairchild Tropical Garden in Miami and have recently begun a program in marine biology. See our website: www.fiu.edu/~biology/ for more information. Applications, including curriculum vitae; statement of research and teaching interests; and names of three references should be sent to: **Joel Trexler, Ecology Search Chair, Department of Biological Science, Florida International University, Miami, FL 33199** by March 23, 2000. *Florida International University is an Equal Opportunity/Affirmative Action Employer committed to employing highly qualified staff that reflects the diversity of our nation.*

ASSISTANT PROFESSOR, NEUROSCIENCE DEPARTMENT OF BIOMEDICAL SCIENCES Creighton University School of Medicine Omaha, Nebraska

Applications are invited for a tenure-track faculty position. Candidates must be committed to excellence in neuroscience research with emphasis on developmental neurobiology, molecular biology, or the vestibulocochlear system. Teaching experience in neuroanatomy is desirable. Applicants should send a curriculum vitae, a description of research plans and teaching interests, and the names of three references by March 20, 2000, to: **Richard F. Murphy, Ph.D., Chairman, Department of Biomedical Sciences, Creighton University School of Medicine, 2500 California Plaza, Omaha, NE 68178-0405. E-mail: barrym@creighton.edu.**

Faculty Positions

University of Massachusetts Cancer Center

The University of Massachusetts Cancer Center at the University of Massachusetts Medical School is expanding initiatives in several key areas of cancer research. Applicants should have interests and accomplishments in: cancer cytogenetics; cell structure and gene expression; cell motility and metastasis; or intracellular trafficking.

Successful candidates will be expected to establish independent research programs in a collaborative environment that interfaces multi-disciplinary, basic, clinical and translational research. Cancer center faculty participate in graduate and undergraduate medical and postgraduate teaching programs, as well as mentor pre- and post-graduate students and fellows. The positions are exceptional opportunities and will include generous start-up funds and laboratory space in a new state-of-the-art research building. Appointments will be on the tenure track and commensurate with the qualifications of the candidates. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.

Applicants should send a curriculum vitae, a succinct statement of research, accomplishments and future research plans, along with the names of three individuals who can be contacted for recommendations to:

Dr. Gary S. Stein
Deputy Director for Basic Research
University of Massachusetts Cancer Center
55 Lake Avenue North
Worcester, Massachusetts 01655

**National Institute of Environmental Health Sciences (NIEHS)
National Institutes of Health (NIH)
Department of Health and Human Services (DHHS)
Director, Division of Intramural Research (DIR)
HNV00-7**

The National Institute of Environmental Health Sciences in the National Institutes of Health is seeking exceptional candidates to fill the position of Director, Division of Intramural Research. The incumbent of this position will direct laboratory and clinical research through eighteen laboratories and branches with approximately 550 employees and 250 non-ceiling personnel, and an annual budget of approximately 140 million dollars. The Director, DIR, will serve as principal advisor to the Institute Director on scientific affairs involving multidisciplinary biomedical research programs; develops and recommends policies for the execution of research programs; determines effectiveness of current programs and recommends; and develops new and revised programs to meet national environmental health needs. The Division is organized into three scientific programs and the Office of Clinical Research which highlight the areas of research excellence of NIEHS-basic research, environmental toxicology, and environmental disease and medicine. These programs are highly interrelated, interactive, and synergistic. Using the multidisciplinary biomedical research approach, the mission of the DIR is to contribute to the basic understanding of biological and chemical processes, understanding of the contributions of environmental agents to human disease and dysfunction, and to the underlying mechanisms of environmentally associated diseases.

Candidates must have either a M.D. or Ph.D. or equivalent degree in an environmental health science discipline. Salary is commensurate with experience and level of accomplishments and will range up to \$200,000. A Recruitment Bonus of up to 25% of base pay or a Relocation Bonus of up to 25% of base pay may also be available.

Interested persons should send a curriculum vitae to:

**HRMB-(HNV00-7), NIEHS, PO Box 12233, (MD-EC-11), RTP, NC
27709 by March 31, 2000. You may call Carolyn London at 919-541-7513
for more information.**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

NATIONAL INSTITUTES OF HEALTH NATIONAL EYE INSTITUTE

Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- **Molecular Biology**
- **Cell Biology**
- **Immunology**
- **Psychophysics**
- **Biochemistry**
- **Epidemiology**
- **Biostatistics**

Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov/> listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer

GLOBAL OPPORTUNITIES



RIKEN Brain Science Institute, JAPAN

LABORATORY HEAD: RECOVERY CONTROL RESEARCH GROUP

RIKEN Brain Science Institute (RBSI) promotes three strategic research areas: "understanding the brain", "protecting the brain" and "creating the brain". RBSI is currently accepting applications for a laboratory head post in the recovery control research group of the "protecting the brain" area.

The new laboratory will start in 2000 and concentrate on regeneration and repair of the diseased brain by gene and cell therapy, manipulation of ES cells, or transplantation of tissues, and study on the morphological and functional analysis of repairing process.

The laboratory head is required to recruit a team of 5-10 researchers including technicians and will receive generous research support for 5 years. Progress will be assessed every 5 years by international committee. The research arrangement may be renewed if appropriate.

Applicants should send a full curriculum vitae listing all publications and a statement of their research interests and plans (max 2,000 words) plus names, addresses and telephone numbers of three references to:

**Search Committee 13, Brain Science Institute, RIKEN, 2-1
Hirosawa, Wako, Saitama 351-0198, Japan**

Deadline for applications: March 31, 2000

For further information please write to the search committee (FAX: +81-48-467-9744 or e-mail: search13@brain.riken.go.jp).
<http://www.riken.go.jp>

POSITIONS OPEN

INSTRUCTORS PROFESSIONAL CURRICULUM DEPARTMENTS OF Biomedical Sciences Microbiology and Immunology Molecular Medicine

Applicants are invited for a post-D.V.M., two-year term appointment as an Instructor in a tutorial, case-based veterinary medical curriculum in the College of Veterinary Medicine (four positions in total). Responsibilities in this position are diverse and include developing, revising, and distributing cases and diagnostic materials; assisting in teaching laboratories; providing logistical support for faculty and 14 tutorial groups; serving as a tutor for a group of six first- or second-year students; presenting cases to the other faculty tutors; and assisting faculty in developing and grading examinations. The Instructor would also work with a faculty curriculum design group and course leader.

Currently, one position is open in each of four foundation courses: "The Animal Body," "Genetics and Development," "Function and Dysfunction," and "Host, Agent, and Defense." "The Animal Body" emphasizes concepts of gross anatomy, histology, embryology, radiology, physical examination, and surgical anatomy. "Genetics and Development" teaches concepts of genetics, molecular and cell biology, and development. "Function and Dysfunction" focuses on physiology, pathology, histology, clinical pathology, and pharmacology. "Host, Agent, and Defense" concentrates on immunology, virology, bacteriology, and epidemiology. The percentage of effort devoted to the curriculum would average 60% annually. The remaining 40% would present opportunities to participate in other aspects of the College's professional programs. The position requires a D.V.M. degree. Preferred attributes and background include clinical experience, aptitude for the basic sciences, familiarity with word processing, networking skills, and the ability to manage diverse tasks efficiently. Training will be provided in the tutorial process.

Please send résumé, statement of career goals, and the names of three references to: **Dr. Joel D. Baines, Department of Microbiology and Immunology, College of Veterinary Medicine, C5 169 Veterinary Medical Center, Cornell University, Ithaca, NY 14853.** Application deadline is April 1, 2000, or until the positions are filled. *Equal Opportunity Employer/Affirmative Action.*

SENIOR RESEARCH ASSOCIATE/INSTRUCTOR POSITION in the Department of Radiation Oncology, Case Western Reserve University. Opportunity to conduct and direct research in a basic research/clinical laboratory in the fields of DNA repair and radiotherapy. The successful applicant will manage and direct the research efforts of a small-to-medium laboratory headed by the Departmental chairman. The laboratory is studying approaches by which to exploit DNA mismatch repair deficiency in tumors to increase the efficacy of radiotherapy. A strong background in the fields of either DNA repair or oncology required. Experience in radiation biology a plus. This person must also have some managerial skills. A Ph.D. plus some postdoctoral experience required. Salary will be commensurate with level of experience. Send curriculum vitae and three references to: **T. J. Kinsella, M.D., Department of Radiation Oncology, 323 BRB, 10900 Euclid Avenue, Cleveland, OH 44106-4942.** E-mail: **TIMOTHY.KINSELLA@UHHS.com.** *Case Western Reserve University is an Equal Opportunity Employer.*

RESEARCH ASSISTANT PROFESSOR MOLECULAR GENETICS

Position available immediately in field of molecular genetics. Candidate must have good grant-writing skills and good publication record. Project involves responsibility for an ENU mutagenesis study in mice. Experience in mouse molecular genetics desirable. Salary and benefits highly competitive; possibility exists for long-term position. Please send cover letter, curriculum vitae, and names of three references to: **Ms. Boyer, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.** *Loma Linda University is an Equal Opportunity Employer.*

POSITIONS OPEN

UAB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM ALABAMA CHAIR, ORAL BIOLOGY

The University of Alabama School of Dentistry is seeking applications and nominations for the position of Chair of the Department of Oral Biology. This is a full-time tenured position at the **FULL PROFESSOR** level. Qualified applicants must have a Ph.D. or D.M.D. (D.D.S.)/Ph.D., a documented record of extramural research funding, and a national reputation as an eminent scientist in the field of oral and craniofacial biology. The candidate must have strong interpersonal and effective communication skills and a willingness to promote research through coordination and collaboration with basic science and clinical investigators. This position offers the opportunity to grow and expand a major research department. The School of Dentistry is an integral part of the University of Alabama at Birmingham, which is a Carnegie Rank I research institution with extramural funding that exceeded \$250 million in 1998. Last year, UAB ranked 18th in funding from the National Institutes of Health for all institutions.

Applicants should submit a curriculum vitae and the names of three references to: **Dr. Jeff Engler, Department of Biochemistry and Molecular Genetics, McCallum Basic Health Sciences Building, Room 460, 1530 Third Avenue South, Birmingham, AL 35294-0005.** Application deadline is April 30, 2000.

The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer. All qualified applicants are encouraged to apply, including women and minorities.

MOLECULAR GENETICIST IN AGING AND NEURODEGENERATIVE DISEASE

The Oregon Aging and Alzheimers Disease Center in the Department of Neurology at Oregon Health Sciences University is seeking candidates for an **ASSISTANT** or **ASSOCIATE PROFESSOR** position in molecular genetics. Applicants must have experience in state-of-the-art human molecular genetics techniques and will be expected to establish an independently funded research program in the genetics of aging and neurodegenerative disease. The successful candidate will join a collaborative team of clinical and basic scientists and will have access to large collections of relevant patient material. The applicant will also maintain and oversee the molecular genetics laboratory of the Aging and Alzheimer's Disease Center as its Director. Applicants should send a curriculum vitae, three letters of reference, and a statement of research interests to: **Dr. Jeffrey Kaye, Molecular Genetics Search Committee, Department of Neurology, Oregon Aging and Alzheimer Disease Center, CR131, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201.** Deadline: April 15, 2000. *Oregon Health Sciences University is an Equal Opportunity Employer.*

RESEARCH POSITION in the Tuberculosis Research Section at the National Institutes of Health. Come join an innovative team in developing new therapies for the treatment of tuberculosis. Projects focus on genetic and biochemical properties of mycobacteria and the development of new drugs against cell wall biosynthesis. Preferred that candidates have a B.S. or M.S. in molecular biology, biochemistry, or microbiology. Position is a full-time, term appointment not to exceed two years. Interdisciplinary Microbiologist/Biologist/Chemist; GS-403/401/1320-7/9. Salary range: \$28,866 to \$45,900. *U.S. citizenship is required.* For application package with complete qualification requirements and procedures, contact: **Marcia Gosha-Caldwell; Telephone: 301-496-4634** and request Vacancy Announcement Number NIAID-00-044. Applications must be postmarked by close of business March 17, 2000, and sent to: **NIH, NIAID, OHRM Building 31, Room 7A27, 31 Center Drive MSC 2520, Bethesda, MD 20892-2520.** *NIH is an Equal Opportunity Employer.*

POSITIONS OPEN

TWO TENURE-TRACK POSITIONS DEPARTMENT OF IMMUNOLOGY UNIVERSITY OF TORONTO

Candidates must have a Ph.D. or equivalent, post-doctoral experience, and an established record of research accomplishment. The successful candidates will establish externally funded research programs and participate in teaching at the undergraduate and/or graduate levels. The positions will be located in the Medical Sciences Building on the downtown St. George campus of the University of Toronto. The main selection criteria are research excellence and promise of collegial strength and collaboration. The applicants' research will supplement and/or complement the Department's existing strengths in the molecular biology of B, T, and NK cell development and function; antigen processing and antigen recognition by T cells; the biochemistry of antigen and cytokine receptor signal transduction; innate immunity and its interface with adaptive immunity; and the pathophysiology of infectious disease and immune disorders.

The appointments will be at the **ASSISTANT PROFESSOR** level. Salary will be commensurate with qualifications and experience.

Letters of application, together with a résumé that includes current and long-term research objectives and the names and addresses of three references, should be sent to: **Michael Julius, Chair, Department of Immunology, Medical Sciences Building, University of Toronto, Toronto, Ontario M5S 1A8 Canada.**

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disabilities.

FACULTY POSITION DEPARTMENT OF MEDICINE DIVISION OF MOLECULAR MEDICINE

The Department of Medicine at Harbor-UCLA Medical Center, Torrance, California, invites applications for faculty positions in the newly created Division of Molecular Medicine.

Applicants must have a Ph.D. and/or M.D. degree with a strong background in cell and molecular biology. The successful applicant will be expected to develop and maintain an independent and extramurally funded research program. Outstanding candidates with established programs are particularly encouraged to apply. Molecular Medicine faculty will interact with those in other divisions in the Department of Medicine whose collective research interest will foster strong interdisciplinary programs in basic and translational research. Applicants should submit a curriculum vitae, a brief summary of current and future research plans, and names of three references to: **Terry J. Smith, Chief, Division of Molecular Medicine, Harbor-UCLA Medical Center, 1124 West Carson Street, Building C-2, Torrance, CA 90502-2006.** E-mail: **tsmith@rei.edu.** *Affirmative Action/Equal Opportunity Employer.*

ARLENE KUMAMOTO POSTDOCTORAL FELLOWSHIP IN CYTOGENETICS Center for Reproduction of Endangered Species Zoological Society of San Diego

The Center for Reproduction of Endangered Species (CRES) seeks a highly qualified individual to join its Genetics Division in order to conduct comparative studies of chromosomal rearrangements and their role in reproductive isolation and speciation. A unique resource underpinning this program is provided by the Frozen Zoo®, a collection of cell strains from over 375 mammalian and avian taxa. The appointment will be for three years at a minimum starting salary of \$32,700, with adjustments according to experience.

Applications, including a letter of intent, curriculum vitae, and addresses of three references should be sent (before April 15, 2000) to: **the Zoological Society of San Diego, Department of Human Resources (Arlene Kumamoto Fellowship), Post Office Box 120551, San Diego, CA 92112-0551 U.S.A.** Further information about the work of CRES is available at **website: www.sandiegozoo.org/cres.** *Equal Opportunity Employer/Affirmative Action.*

KUWAIT PRIZE 2000 Invitation for Nominations

The Kuwait Foundation for the Advancement of Sciences (KFAS) institutionalized the KUWAIT Prize to recognize distinguished accomplishments in the arts, humanities and sciences. The Prizes are awarded annually in the following categories:

- A. Basic Sciences
- B. Applied Sciences
- C. Economics and Social Sciences
- D. Arts and Letters
- E. Arabic and Islamic Scientific Heritage

The Prizes for 2000 will be awarded in the following fields:

- | | |
|---|---|
| 1. Basic Sciences | : Genetics. |
| 2. Applied Sciences | : Environmental Sciences. |
| 3. Economic and Social Sciences | : The Role of Women in Development of The Arab World. |
| 4. Arts and Literature | : Poetry. |
| 5. Arabic and Islamic Scientific Heritage | : Surgery. |

Foreground and Conditions of the Prize:

1. Two prizes are awarded in each category:
 - * A Prize to recognize the distinguished scientific research of a Kuwaiti citizen, and,
 - * A Prize to recognize the distinguished scientific research of an Arab citizen.
2. The candidate should not have been awarded a prize for the submitted work by any other institution.
3. Nominations for these Prizes are accepted from individuals, academic and scientific centers, learned societies, past recipients of the Prize, and peers of the nominees. No nominations are accepted from political entities.
4. The scientific research submitted must have been published during the last ten years.
5. Each prize consists of a cash sum of K.D. 30,000/- (approx. U.S. \$100,000/-), a Gold medal, a KFAS Shield and a Certificate of Recognition.
6. Nominators must clearly indicate the distinguished work that qualifies their candidate for consideration.
7. The results of KFAS decision regarding selection of winners are final.
8. The documents submitted for nominations will not be returned regardless of the outcome of the decision.
9. Each winner is expected to deliver a lecture concerning the contribution for which he was awarded the Prize.

Inquiries concerning the KUWAIT PRIZE and nominations including complete curriculum vitae and updated lists of publications by the candidate with four copies of each of the published papers should be received before 31/10/2000 and addressed to:

The Director General

The Kuwait Foundation for the Advancement of Sciences

P.O. Box 25263, Safat - 13113, Kuwait.

Tel: (+965) 2429780 / Fax: (+965) 2403891 / E Mail: prize@kfasc.org.kw

The Laboratory of Cardiac Energetics, National Heart, Lung & Blood Institute, NIH is offering a postdoctoral Research Fellow position in the laboratory of Dr. Robert S. Balaban for an individual who would investigate the cellular signaling pathways involved in the control of mitochondrial energy conversion and other functions.

Research will focus on the mathematical modeling/simulation of the cytosolic control network regulating mitochondrial function. Specifically, a comprehensive simulation of the cytosol as it relates to mitochondrial function during work and ischemic transitions will be developed that includes cellular topology, enzyme distributions, transporter kinetics, regional diffusional barriers, etc. These simulations will be performed in close collaboration with the cellular physiology group in the lab, providing key morphology and physiology/biochemistry data for this project based on dynamic confocal microscopy and more conventional biochemical techniques. Applicants should have completed a Ph.D. Experience in mathematical simulation and modeling is desirable.

Interested candidates should submit a statement of interest, curriculum vitae, bibliography, and a list of three references to **Ms. Caroline Leake, Building 10, Room B1D416, 10 Center Drive MSC 1016, Bethesda, MD 20892-1016.**

NIH is an Equal Opportunity Employer.

Scientists

Dynavax Technologies Corporation is an innovative biotechnology company that discovers and develops novel DNA and protein based molecules for use in modulating immune system responses in the treatment and prevention of asthma, allergy, cancer and infectious diseases. Recent collaborative agreements have expanded our need in the following areas:

Infectious Diseases

Using your proven expertise with viral infectious diseases, you will lead research programs in antiviral therapy and/or viral vaccines, analyze immune responses to vaccine therapies, and establish correlates of protection in animal models. Expertise with virology or antiviral research is a must. (Job# S0303-ID)

Protein Chemistry

You will lead the effort to develop methods for preparing and purifying immunostimulatory oligonucleotide/protein conjugates. You will also prepare and characterize mg quantities of proteins and their conjugates. Candidates must possess experience with biologic drug development, especially in bio-conjugation and physicochemical characterization techniques. (Job# S0303-PC)

Immune Activation Mechanisms

You will lead research programs defining the molecular mechanism of action of immunostimulatory oligonucleotides. Candidates must possess experience in one of the following research areas: protein-nucleic acid interactions, receptor identification, or immunological signaling pathways. (Job# S0303-1AM)

All of the above positions are for hands-on Ph.D.-level scientists with a minimum of 5 years' industry experience who can organize research programs, work successfully with product development teams and efficiently interact with outside collaborators.

We offer attractive compensation and benefits, pre IPO equity participation, and a challenging collaborative research setting. To apply, please send resume and cover letter to: Dynavax Technologies, Attn: (Job# _____), 717 Potter Street, Suite 100, Berkeley, CA 94710; FAX: (510) 848-5694; email: HR@dvax.com. EOE

DYNAVAX

TECHNOLOGIES

POSITIONS OPEN

THE CENTERS FOR DISEASE CONTROL AND PREVENTION NATIONAL CENTER FOR INFECTIOUS DISEASES Scientific Resources Program Biologics Branch Specialized Diagnostics Support Team (SDST)

Is currently seeking applications for a **MICROBIOLOGIST**, GS-403-12/13, to serve as a Team Leader, SDST. This position is located in the Biologics Branch. As Team Leader, he/she will oversee at least 10 staff employees and Fellows and will be responsible for design, planning, and implementation of the research and development programs and production of biological products and *in vitro* diagnostic reagents in compliance with the Biologics Branch quality assurance programs. The Team Leader will be responsible for ensuring that SDST provides high-quality products to CDC laboratories, as well as national and international organizations; as necessary, will be responsible for ensuring that new biologics products and reagents are appropriately evaluated and quality controlled; and will be expected to develop collaborative research activities with other Branch and CDC laboratories, other governmental agencies, academia or nongovernmental organizations in the areas of monoclonal and polyclonal antibody production, gene expression, fermentation, protein purification, and conjugation. In addition, SDST provides labeling and lyophilization services and houses the CDC reference inventory system for the biological products and reagents made at the Biologics Branch and other CDC laboratories. Salary range for the GS-12 is from \$50,552 to \$65,716, and the GS-13 is from \$60,114 to \$78,146.

To apply for this position, visit CDC website: <http://www.cdc.gov>, Job Announcement No. DE2-00-050 that is scheduled to open March 15, 2000, and will close on April 11, 2000. Please reference the external announcement number. Applications must be postmarked no later than April 11, 2000, to be considered for this position.

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

ENVIRONMENTAL STUDIES: One-year position (possibly for two years) available August 1, 2000, to teach courses integrating social, cultural, economic, and political approaches to environment and development issues and environmental problem solving. Three courses per semester, including introductory environmental science, sophomore environmental problem solving, seminar in area of expertise, collegewide liberal studies courses, and directing senior theses. Ph.D. or terminal degree required at appointment. Allegheny College is a highly selective liberal arts college. Send application letter, curriculum vitae, teaching/research interests, and three reference letters by March 24, 2000, to: Dr. Richard Bowden, Chair, Department of Environmental Science, Allegheny College, Meadville, PA 16335. Visit website: <http://www.alleg.edu/academics/EnvSci/links.html> or website: <http://ceed.alleg.edu/CEED/CEEDHome.html>. Equal Opportunity Employer. Women/minorities encouraged.

Two **POSTDOCTORAL POSITIONS** in integrative neuroscience are available, one to investigate the impact of the central monoaminergic (norepinephrine or serotonin) systems on sensory network function and the other to examine the acute and chronic effects of psychostimulant drugs of abuse on response properties of sensory cells and circuits. Both research projects employ state-of-the-art multichannel recording to study drug or monoamine system-induced influences on sensory circuit operations in awake, behaving animals. Salary range is \$25,000 to \$30,000. Prior experience in electrophysiology or behavioral pharmacology is desirable but not necessarily a requirement. Send curriculum vitae and names of three references to: Dr. Barry Waterhouse, Ph.D., Department of Neurobiology and Anatomy, MCP-Hahnemann University of the Health Sciences, 3200 Henry Avenue, Philadelphia, PA 19129.

POSITIONS OPEN

MARINE BIOLOGIST FLORIDA INTERNATIONAL UNIVERSITY

The Department of Biological Sciences invites applications for a tenure-track, **ASSISTANT PROFESSOR** position in marine biology at Florida International University's Biscayne Bay Campus in North Miami. The marine biology program is new, and applicants may expect to be involved in planning for new facilities in addition to research and teaching. We are particularly interested in candidates whose expertise lies in the area of plankton biology, although other areas of marine biology will be considered. A Ph.D. is required, and postdoctoral experience is desirable. Selection criteria will include research that combines field and laboratory approaches, a strong publication record, and evidence of success in obtaining extramural funding. Research that will take advantage of the subtropical bayside campus environment and near-shore organisms will be advantageous. Teaching experience and a strong commitment to undergraduate education is required; teaching responsibilities will include one undergraduate marine biology course per term and one graduate course in the candidate's specialty. Applications should be accompanied by statements of research and teaching interests; recent reprints; and names, e-mail addresses, and telephone numbers of at least three references. Applications close on March 16, 2000, and should be sent to: Dr. Walter Goldberg, Marine Biology Search Committee Chair, Florida International University, University Park Campus, Miami, FL 33199. For further information on biological sciences at FIU, see website: <http://www.fiu.edu/~biology>. Florida International University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR TUMOR BIOLOGY AND DEVELOPMENTAL THERAPEUTICS

The Department of Radiation Medicine at Georgetown University Medical Center invites applications for a **RESEARCH ASSISTANT PROFESSOR** position in molecular tumor biology and developmental therapeutics. The successful candidate must have a Ph.D. in biochemistry or molecular biology with four to five years of postdoctoral experience in head and neck, breast, and prostate tumor biology and signal transduction, demonstrated by strong publications in peer-reviewed journals. Research emphasis is in translational studies including but not limited to *in vivo* and *in vitro* modeling for radiation and drug targets related to cell survival, tumor progression, and apoptosis. Interested individuals should send their curriculum vitae and the names of three references to: Usha Kasid, Ph.D., Associate Professor, E208, Research Building, Department of Radiation Medicine, Lombardi Cancer Center, Georgetown University Medical Center, 3970 Reservoir Road, N.W., Washington, DC 20007. Georgetown University Medical Center is an Equal Opportunity/Affirmative Action Employer.

The Department of Pathology and the Comprehensive Cancer Center at Wake Forest University invites applications for four tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Candidates with a Ph.D. or M.D. degree will be expected to conduct an independent, cancer-focused research program with an emphasis on the regulation of cell growth or cell death or in the field of targeted therapy of cancer. Successful candidates are also expected to contribute to collaborative projects within the Comprehensive Cancer Center programs of Wake Forest University. Emphasis will be placed on prior success or potential in obtaining extramural funding. Start-up funds, newly renovated laboratory space, and newly equipped core facilities are available. Send curriculum vitae, statement of research interests, funding history, and three letters of recommendation to: A. Julian Garvin, M.D., Ph.D., Chairman, Department of Pathology, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157-1072. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR AQUATIC BIOLOGY

Tenure-track opening at the level of Assistant or Associate Professor for Aquatic Biologist in the Department of Biological Sciences at DePaul University starting September 2000. Successful candidate will be broadly trained in aquatic biology with a strong commitment to undergraduate education. All subdisciplines and approaches will be considered, including ecology, population biology, evolution, and systematics using plant, animal, protist, or algal model systems. 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 aquatic biology; and graduate/advanced undergraduate course in candidate's area of expertise. Applicant should also exhibit willingness to participate in interdisciplinary programs. Research support and start-up funds available. The Department is housed in a new Biology and Environmental Sciences building that includes modern laboratory space with animal care and greenhouse facilities. Applications will be accepted until position is filled; review will begin upon receipt of completed applications. More information concerning this position is available at website: http://diversity.depaul.edu/fjobs_las.html. Please send: curriculum vitae; three letters of reference; statement of research and teaching interests, including your educational philosophy; and list of equipment and supply needs to: Aquatic Biology 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: scohn@condor.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.

SUPERVISORY PHYSICAL SCIENTIST, ZP-1301-V (equivalent to GS-15). Salary: \$85,795 to \$111,532 (supervisory pay potential: \$118,324 through performance pay increases). The Office of Oceanic and Atmospheric Research, Forecast Systems Laboratory, is seeking a highly qualified Scientific Manager to fill the position of Chief, International Division (ID), which currently has 23 employees in three branches. The Division conducts an international program of science and technology. Applicants should possess a Ph.D. or equivalent in physical science or a closely related discipline. The ID Chief directs a program of scientific and technical interaction with governments and organizations around the globe. To obtain complete information on this position and application forms, contact: U.S. Department of Commerce, NOAA/MASC Human Resources Division, 325 Broadway, Boulder, CO 80303. Telephone: 303-497-6615; website: <http://www.masc.noaa.gov>. Reference Vacancy #MASC/NOAA 00-0151R, closing March 31, 2000. Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available to study the neurochemical effects of abused substances, including nicotine. *In vivo* microdialysis and immunochemical approaches will be used to assess the action of self-administered drug on selected brain regions involved in drug reward and stress responses. Applicants must have a strong background in neuropharmacology and substantial experience with behavioral, electrophysiological, or neurochemical approaches to investigating CNS function in the intact animal. Send or FAX curriculum vitae, three letters of reference, and a statement of experience and research goals to: Burt Sharp, M.D., Chair, Department of Pharmacology, The University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. FAX: 901-448-7206.

The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

NEW POSITIONS IN DRUG DISCOVERY AND DEVELOPMENT

Our clients are a leading multi-national pharmaceutical company with a long-standing track record in successful R&D. They have made major contributions to research into disease mechanisms and therapeutics, particularly in CNS and anti-infective medicine. As part of continued investment, they are expanding their European Division devoted to discovery of new drugs and lead candidate identification. This has given rise to new posts in the following Sections:

DRUG METABOLISM (Ref k11)

An experienced drug metabolism scientist is required, with strong expertise in Lead Optimisation, to supervise a team conducting in vitro and in vivo investigations on the metabolism of xenobiotics and the corresponding mass spectrometry laboratory in charge of metabolite identification. Your team will also provide support for investigative chemistry and bio-pharmaceutics. You should have a PhD relevant to drug disposition, plus 5-10 years postdoctoral experience in drug metabolism, obtained in a leading academic or industrial laboratory geared to drug discovery.

MASS SPECTROMETRY (Ref k12)

A scientist with expertise in mass spectrometry applied to Lead Optimisation is required to take charge of compound identification from metabolism in vitro or in vivo, and chemistry studies. Strong insight into emerging metabolism investigations and technologies will be an asset. You should have a relevant PhD, ideally in chemistry, biochemistry or pharmacy and have recent "hands-on" experience of separation techniques and mass spectrometry.

INVESTIGATIVE TOXICOLOGY (Ref k13)

A scientist trained in modern techniques of biochemistry/toxicology/pharmacology for in vitro and in vivo safety evaluations is required. Candidate will provide strategic input to drug development plans, identify potential toxicological issues, design and supervise early toxicity tests and interpret findings. You should have a good understanding of mechanisms underlying toxicity, gained from at least 3 years postdoctoral experience in a leading academic or industrial research group.

For all positions, a good command of English is required and knowledge of French would be advantageous. Working conditions and company benefits are excellent. Relocation assistance will be provided.

Please contact Dr Kevin Young at Euromedica, London, preferably by forwarding your latest CV, to discuss your professional interests and background.

EUROMEDICA
Executive Search in Health Care

Euromedica plc, 7 Heron Quays
Docklands, London E14 4JB. UK

Tel: 44 (0)171 536 7950

Fax: 44 (0)171 538 8362

E-mail: kevin@woodgrove.demon.co.uk

BRUSSELS · CAMBRIDGE · FRANKFURT
HAMBURG · LONDON · MADRID · PARIS

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR (THREE POSITIONS) MARINE FISHERIES Ecology and Genetics

Oregon State University announces an expanded research and educational initiative in marine fisheries, including three new tenure-track faculty positions in marine fisheries ecology and genetics. One position (marine fisheries ecology) will be based in the Department of Fisheries and Wildlife on the main campus in Corvallis. Two (marine fisheries ecologist, marine fisheries population geneticist) will be based at the Coastal Oregon Marine Experiment Station, which is located at the Hatfield Marine Science Center in Newport. For additional information, please see the website: <http://hmssc.orst.edu/groups/comes>. Candidates must have a Ph.D. in marine ecology, biology, genetics, fisheries, or related field or be expected to complete such a degree by July 2000. Please submit a letter of interest, a current résumé including a list of current interests, publications and funding history, and names and addresses of at least three references to: Carol Cole, Coordinator, Coastal Oregon Marine Experiment Station, 2030 S.E. Marine Science Drive, Newport, OR 97365. Telephone: 541-867-0230; e-mail: comes@hmssc.orst.edu. Applications must be submitted by April 15, 2000.

Oregon State University is an Equal Opportunity Employer and has a policy of being responsive to dual-career needs.

RESEARCH SCIENTIST: provide scientific and technical leadership in management, design, and conduct of a research program, assuming full responsibility for the complete program of investigation. Required qualifications: the academic knowledge of a discipline that is generally associated with a Doctoral degree or equivalent professional degree (i.e., M.D., D.D.S. or D.V.M.) in a field related to genetics or psychiatric disorder. Experience in research involving methods common to behavior genetics, specifically utilization of the adoption paradigm to elucidate genetic and environmental effects. Demonstration of scientific merit through publications in peer-reviewed journals. Highly desirable: proficiency at statistical programs (SPSS, AMOS, SAS). Supervisory or teaching experience. Experience coding the Adult Attachment Interview. Desirable: knowledge of basic concepts used by behavioral geneticists to identify genetic and environmental components of behavior in humans. Ability to work independently. Familiarity with the Internet and locating potential funding sources. Willingness to travel to meetings and conferences. Please refer résumé to: Edward Troughton, University of Iowa Department of Psychiatry, Psychiatry Research 1-286 MEB, Iowa City, IA 52242-1000. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

NIH-supported **POSTDOCTORAL POSITION** is available immediately to study the mechanisms of tissue injury following ischemia and reperfusion. The successful candidate must have a Ph.D. and have published experience in biochemistry and molecular biology. Experience in plasmon resonance, protein-protein interactions, and glycobiology is desired. A curriculum vitae should be sent to: Gregory L. Stahl, Ph.D., Center for Experimental Therapeutics and Reperfusion Injury, Anesthesia, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. FAX: 617-278-6957.

POSTDOCTORAL POSITIONS available to study gene regulation in development, using transgenic and mutant mice. Emphasis is on growth defects in the skeleton and nervous system. Please send curriculum vitae and names of three references to: Dr. Claudia Kappen, Associate Professor, Center for Human Molecular Genetics, Munroe-Meyer Institute, 985455 Nebraska Medical Center, Omaha, NE 68198-5455. E-mail: ckappen@unmc.edu. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

POSITIONS OPEN

PROJECT COORDINATOR, AGRICULTURE REGULATORY SCIENCE. Responsible for (1) overseeing and coordinating the generation of data to support assessment and registration of cotton products improved through biotechnology; (2) developing and coordinating regulatory science strategies, studies, and submissions to achieve global regulatory approvals; (3) providing oversight of study design, protocol development for GLP (Good Laboratory Practice) and non-GLP studies, study monitoring, data analysis, and report writing/reviewing; (4) developing and implementing and delivering on project plans and managing budgets, providing regulatory leadership and strategic input to various regulatory, product, and technical teams, developing strategic approaches to technical challenges; (5) collaborating with agricultural experts in other cotton-growing regions of the world, including Africa, in conducting field studies in other global areas, working effectively with cross-functional, multidisciplinary teams; (6) effectively communicating with diverse audiences; (7) ensuring compliance with U.S. Department of Agriculture APHIS requirements; and (8) utilizing principles of experimental design, plant breeding and plant biotechnology, crop physiology, and crop pests. Degree requirements include a minimum of a Ph.D. in plant science combined with three years (and 0 months) of experience in the job offered or three years (and 0 months) of experience as a Research Associate. Work experience must include knowledge of GLP study requirements, study monitoring and data analysis, and conducting cotton field studies in other world areas. Course work must include: experimental design, plant breeding and plant biotechnology, crop physiology, and crop pests. Forty hours per week; 9 a.m. to 5 p.m.; \$64,000 per year. St. Louis location. *Must have proof of legal authority to work permanently in the United States.* Send two copies of both résumé and cover letter to: Missouri Department of Labor and Industrial Relations, Division of Workforce Development, Attention: Ms. J. Gaston, 4040 Seven Hills Drive, Suite 166, Florissant, MO 63033-6700. Please include Job Number 199028. No calls. *An Employer-Paid Ad.*

ASSISTANT PROFESSOR OF BIOLOGY, Centre College, has a full-time renewable non-tenure-track position beginning fall 2000. Responsibilities include human biology, comparative physiology, introductory biology, senior seminar, and an upper-division course in a specialty area. Collaborative research with undergraduates is strongly encouraged. Send statements of teaching philosophy, research interests, curriculum vitae, transcripts, and three letters of recommendation to: Dean John Ward, Centre College, 600 West Walnut Street, Danville, KY 40422. Review of applications will begin April 3, 2000. *Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION available immediately to study dendritic signaling, neurotransmission, and calcium dynamics in the olfactory bulb. Applicants with a strong background in cellular physiology/electrophysiology or biophysics/bioengineering are preferred; skills in patch clamp or brain slices are desirable. However, highly qualified individuals from related disciplines are also invited to apply. Send or e-mail curriculum vitae with statement of research interests and names of three references to: Graeme Lowe, Ph.D., Monell Chemical Senses Center, 3500 Market Street, Philadelphia, Pa 19104-3308. E-mail: lowe@monell.org.

POSTDOCTORAL POSITIONS available immediately to study G/S cell cycle regulators in lung cancer and mesothelioma (*Cancer Res.* 56:3415; *Oncogene* 16:3087; *Oncogene* 9:1321; *JNCI* 87:1870). Applicants should have a Ph.D. or equivalent and experience in molecular techniques. Send letter of interest, curriculum vitae, and names of at least two references to: Dr. Robert Kratzke, 111E Heme/Onc, 1 Veterans Drive, MVAMC, Minneapolis, MN 55417. E-mail: kratz003@tc.umn.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP POSITION IN BIOPHYSICS

The Laboratory of Integrative and Medical Biophysics, National Institute of Child Health and Human Development, National Institutes of Health, is seeking applicants for a Postdoctoral Fellowship in tissue biophysics with a strong experimental background in optics. Applicants with interest in the following areas would be desirable: tissue imaging, spectroscopy, and assessment of biological transport phenomena.

Applicants must possess a Ph.D. in physics, engineering, or an equivalent field, and have less than five years of postdoctoral research experience. The initial appointment will be for two years but can be extended to five years. Interested applicants should submit (1) a curriculum vitae; (2) a bibliography; (3) a cover letter with a brief description of their research interests and experience; and (4) a list of at least three references, which includes their addresses, telephone and FAX numbers, and e-mail addresses, by May 1, 2000, to:

Amir H. Gandjbakhche
Chief, Unit on Biomedical Stochastic Physics
Laboratory of Integrative and Medical Biophysics
National Institute of Child Health
and Human Development
National Institutes of Health
Building 12A, Room 2041
Bethesda, MD 20892
Telephone: 301-435-9235
FAX: 301-496-2172
E-mail: amir@helix.nih.gov

NIH is an Equal Opportunity Employer.

ANATOMIST SOUTHERN ILLINOIS UNIVERSITY

The Department of Anatomy invites application for a tenure-track position at the **ASSISTANT PROFESSOR** level. Qualified candidates must have a Ph.D. or M.D. degree, at least two years of postdoctoral experience with demonstrated ability to perform independent research, experience in teaching the anatomical sciences, and willingness to teach medical students in the disciplines of gross and neuroanatomy. Special (but not exclusive) consideration will be given to those with research interests in reproductive or neurobiology. Must present evidence of independent scholarly activity in the area of reproduction or neurobiology. Effective date of employment to begin August 1, 2000, or until position is filled. Send curriculum vitae; provide three letters of reference and a letter specifying teaching interests and research plans by 30 April 2000 to: **Anatomy Search Committee, School of Medicine, Southern Illinois University, Carbondale, IL 62901-6523.**

Southern Illinois University Carbondale is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in immunology is available to study the role of endosomal proteases in MHC Class II-restricted antigen presentation. The Fellowship will focus on the use of gene-targeted mice deficient in specific proteases to explore the role of cysteine proteases in MHC Class II processing and antigen presentation *in vitro* and *in vivo*. Experience in molecular genetics and immunology preferred. Send curriculum vitae to: Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California San Francisco. FAX: 415-476-2283; e-mail: halchap@itsa.ucsf.edu.

POSTDOCTORAL POSITION in neurobiology to study synaptogenesis and cortical sensory map formation, using NMDA receptor mutant mice. Experience in one of the following is desirable: patch clamp or *in vivo* recording, molecular biology, biochemistry, cell culture, or histology. Contact: Dr. Yuqing Li, 3347 Beckman Institute, University of Illinois at Urbana-Champaign, 405 North Mathews Avenue, Urbana, IL 61801. Telephone: 217-244-1614; FAX: 217-244-5180; website: www.beckman.uiuc.edu/faculty/yl.html; e-mail: y-li4@uiuc.edu.

Expose your career to every part of the R&D process.

Opportunities in Proteomics

As a world-leading healthcare organisation, SmithKline Beecham is an unsurpassed leader in genome-based pharmaceutical research & development. We seek ever more inventive ways of discovering pioneering drugs that will interact with genome derived molecular targets and to understand the effects of drug candidates on cellular systems.

We not only develop our products but our people too, who benefit through opportunities to experience every part of the drug discovery process. You're given every encouragement to gain more knowledge, and to diversify or specialise in order to reach your goals.

As part of our Discovery Chemistry and Platform Technologies Division, we've implemented methods and technologies to examine cellular proteomes, and to further understand the nature and outcomes of drug candidate interactions with isolated proteins and cellular systems.

The multi-disciplinary team collaborates widely within Discovery Research, and talented scientists who join can extend their range and expand their potential. Based at our impressive facilities at New Frontiers Science Park, Harlow, you'll participate in both the development and the application of proteomics approaches to underpin Drug Discovery efforts. The three positions currently offered within our expanding group require strong expertise in one or more of the following techniques:

- 2-dimensional gel electrophoresis
- analytical biochemistry including N- or C-terminal protein microsequencing and amino acid analysis

- MALDI and electrospray mass spectrometry
- western blotting
- affinity capture methods
- capillary chromatography and related methods.

Candidates at PhD level and at BSc/MSc level with comparable experience will each receive full consideration. This is a unique opportunity to become a key player within a motivated team charged with building a highly effective proteomics resource for Discovery Research.

Move towards the cutting-edge of research by emailing your CV to SBjobs@adeo.co.uk quoting reference KM/CAS/020-021/SI in the subject heading. Please note that email applications, which receive an electronic acknowledgement, enable us to provide the quickest response.

Alternatively, send your CV quoting the reference on both the letter and envelope, to: The Recruitment Manager, c/o PO Box 192, Brentford, Middlesex TW8 9XB.

For more information on SmithKlineBeecham, visit our website at www.sb.com

Realise your potential



SmithKline Beecham
Pharmaceuticals

Developing talent through equality of opportunity



UNIVERSITY COLLEGE LONDON

**Department of Anatomy and
Developmental Biology**

Lecturership(s)

**Genetics of Behaviour
Molecular Neurobiology**

Located in the heart of London, this large biomedical science department (5* in RAE) in one of the UK's leading research universities has a vacancy for one or more permanent members of academic staff. Initial appointments will be on the lecturership salary scale (range £22,945 - £32,199 including London Allowance) and we will reward successful independent research with rapid promotion.

We seek scientists with significant post-doctoral experience and a good publications record, in the general areas of invertebrate or vertebrate Behavioural Genetics and/or Molecular Neurobiology. The successful candidate(s) will be expected to develop an independent research programme, and some financial assistance will be available to assist in its initiation. They will also be expected to take an active part in undergraduate and postgraduate teaching, gradually increasing involvement over 3 years.

To apply, please send 2 copies of a full CV, including a brief outline of current research and future plans together with the names and addresses of three referees to: Lecturership ref BNG, Department of Anatomy and Developmental Biology, University College London, Gower Street, London WC1E 6BT, UK. Further details are available from the current Acting Head of Department, Professor AR Lieberman, or Professor CD Stern (email cds20@columbia.edu), the Head of Department from October 2000.

The closing date for applications is Tuesday, 2nd May 2000.

Working Toward Equal Opportunity



**St George's Hospital
Medical School**

University of London

and
British Heart Foundation

JOHN PARKER BRITISH HEART FOUNDATION CHAIR OF MOLECULAR CARDIOVASCULAR SCIENCES

The School invites applications from individuals of outstanding achievement and promise in molecular cardiovascular sciences. The appointed individual (clinical or non-clinical) will already have major grant support at BHF programme level or its equivalent, or can demonstrate a clear ability to do so. An honorary clinical contract with St George's Healthcare will be available for an appropriately qualified individual.

The appointed individual will take the lead in appointing a substantial group of investigators and support staff with core annual funding of approximately £400,000 for an initial period of seven years to develop a strong interdisciplinary bioscience group of relevance to the broad agendas of cardiovascular research.

The School has a strong Department of Cardiological Sciences (starred for excellence in the UK Higher Education Funding Council Research Assessment Exercises in 1992 and 1996). It is anticipated that the new group will work closely with this department and also with other relevant research strengths in the School (which include medicine, pharmacology, epidemiology, physiology, embryology and genetics).

Full details and an application form are available from the Personnel Officer, St George's Hospital Medical School, Cranmer Terrace, London SW17 0RE, 020 8725 5020 (24-hour answerphone), website www.sghms.ac.uk, or by email: personnel@sghms.ac.uk Closing date 11 March 2000. Please quote reference 301/00.

The School is an Equal Opportunities Employer

POSITIONS OPEN

MOLECULAR AND CELLULAR BIOLOGY

The Department of Biological Sciences at Florida International University, the State University at Miami, seeks a tenure-track **ASSISTANT PROFESSOR** in gene regulation and virology. The successful applicant will be expected to develop independent, extramurally funded research programs and contribute to teaching Masters' and Doctoral students. Applicants should have a strong commitment to teaching at both the undergraduate and graduate levels. Teaching responsibilities will include graduate and undergraduate courses in biochemistry and molecular/cellular biology. A Ph.D. and a strong record of research productivity are required. Two or more years of postdoctoral experience are preferred. Applicants should submit curriculum vitae, research and teaching goals, and the names of three references by March 23, 2000, to: **Gene Regulation Search Committee, Department of Biological Sciences, Florida International University, Miami, FL 33199**. More information on the Department and the University can be obtained at [website: http://www.fiu.edu/~biology](http://www.fiu.edu/~biology). *Florida International University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION TRANSCRIPTION AND CHROMATIN

NIH-funded position available to study chromatin remodeling by transcriptional regulatory proteins in budding yeast. Our laboratory is in the Wadsworth Center, which houses state-of-the-art laboratories in an academic environment. For more details, see the [website: http://www.wadsworth.org/](http://www.wadsworth.org/). Experience in molecular biology and/or yeast genetics is preferred. Please send curriculum vitae and names and e-mail addresses of three references to: **Dr. Randall H. Morse, P.O. Box 22002, Wadsworth Center, Albany, NY 12201**. *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR PHYSICAL SCIENCE FLORIDA GULF COAST UNIVERSITY

Physics Ph.D. Teach undergraduate physics, astronomy; collaborate in interdisciplinary studies. Teaching and scholarly endeavors; involvement in undergraduate research. Interest and experience in distance learning and instructional techniques. Position # 12911. Include statement of research interests and how you would involve undergraduates. Deadline: open until filled. Review of applications will begin April 2000. Before applying, visit our [website: www.fgc.edu](http://www.fgc.edu) or Telephone our Jobline: 941-590-1111 for additional information. *Florida Gulf Coast University is an Equal Opportunity/Equal Access/Affirmative Action Institution.*

POSTDOCTORAL POSITIONS are available immediately to investigate the TGF-beta signal transduction pathway, with a focus on the function and regulation of Smad proteins using both *in vitro* and *in vivo* systems (*Nature* 383:168-172; *Nature* 394:909-913, *Cell* 95:737-740; *Trends Cell Biol.* 9:274-279). Candidates must have a Ph.D. and/or M.D. degree and a strong background in molecular biology, biochemistry, and/or cell biology. Experience with transgenic mouse models is recommended. Please send curriculum vitae and three letters of reference to: **Dr. Ying Zhang, Laboratory of Cellular and Molecular Biology, Division of Basic Sciences, NCI, NIH, Building 37, Room 1E24, 37 Convent Drive, MSC 4255, Bethesda, MD 20892-4255**. FAX: 301-496-8479.

PRE- AND POSTDOCTORAL POSITIONS to study nuclear receptor coactivators/corepressors in transcriptional regulation/chromatin remodeling and acute promyelocytic leukemia at molecular and genomic levels. Talented candidates with gene expression and molecular biology expertise are encouraged to apply. Send curriculum vitae and three references to: **J. Don Chen, PMT-S7-216, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655**. E-mail: don.chen@umassmed.edu.

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The University of British Columbia

The Department of Microbiology and Immunology invites applications for two tenure-track faculty positions, funded jointly for the first five years by the University of British Columbia and the Natural Sciences and Engineering Research Council (NSERC) under the NSERC University Faculty Awards Program. The positions will commence July 1, 2001. The competition will be open to candidates in the areas of immunology, microbial pathogenesis, or environmental microbiology whose research complements that of the Department's current members (see [website: http://www.microbiology.ubc.ca](http://www.microbiology.ubc.ca)). Department members are all well funded by federal agencies, and the department is well equipped. The chosen candidates will be nominated for an NSERC University Faculty Award and must meet NSERC's eligibility criteria for this award, which may be found at [website: www.nserc.ca/programs/sf/UFA_e.htm](http://www.nserc.ca/programs/sf/UFA_e.htm). The goal of the University Faculty Awards program is to increase the representation of women in faculty positions in the natural sciences and engineering by encouraging Canadian universities to appoint very promising women researchers to tenure-track positions.

Candidates must have a Ph.D. degree, an outstanding research record, an aptitude for undergraduate and graduate teaching, and be a Canadian citizen or permanent resident. The appointment is intended to be at the **ASSISTANT PROFESSOR** level; however, an appointment at a higher level may be considered provided the applicant has not previously held a tenure-track position at a Canadian university.

Applicants should send a curriculum vitae and a statement of proposed research to: **Dr. G. Weeks, Head, Department of Microbiology and Immunology, University of British Columbia, Room 300, 6174 University Boulevard, Vancouver, British Columbia V6T 1Z3 Canada**. The deadline for applications is May 15, 2000. E-mail: nkan@interchange.ubc.ca; **Nancy Kan, Secretary to the Head**.

The University of British Columbia hires on the basis of merit and is committed to Employment Equity. We encourage all qualified persons to apply.

Science Research Laboratory (SRL) has a full-time position for a **SENIOR RESEARCH SCIENTIST** with a Ph.D. in biology. This cell biologist will lead a research effort in the isolation of hematopoietic stem cells. The research effort includes development of new technologies for the isolation of stem cells from bone marrow and mobilized peripheral blood and verification of the viability and functionality of these isolated stem cells. This research will be performed in conjunction with **Dr. David Scadden** of the Massachusetts General Hospital (MGH).

SRL is a small, high-technology company that performs multidisciplinary research and development in biophysics, optics, and pulsed power. SRL is located within a mile of Massachusetts Institute of Technology and Massachusetts General Hospital. The salary for this position is competitive, with excellent fringe benefits. All interested applicants should contact: **Jonah Jacob, Ph.D., at Telephone: 617-547-1122, extension 139; e-mail: jjacob@srl.com**.

POSTDOCTORAL POSITION is available to study regulation of integrin signaling *in vitro* and integrin function *in vivo* at University of California San Francisco. The project is focused on the influence of urokinase receptors on integrin function in model systems relevant to inflammation and tumor metastasis. The project will use structural/functional studies of integrin and urokinase receptor interactions *in vitro* and transgenic/knockout approaches *in vivo* to understand the basis for the synergistic relationship between urokinase receptors and integrins in cell migration. Experience in molecular biology and mouse biology preferred. Send curriculum vitae to: **Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California San Francisco**. FAX: 415-476-2283; e-mail: halchap@itsa.ucsf.edu.

POSITIONS OPEN

FACULTY POSITION TENURE-TRACK BIOLOGY AQUATIC BIOLOGY

SUNY Fredonia anticipates a tenure-track **ASSISTANT PROFESSOR** position with expertise in environmental risk assessment to begin August 2000 or January 2001. Candidates should be strongly committed to both teaching and to developing an active research program involving undergraduates and M.S. students. In addition to the duties listed below, the position includes teaching a non-majors biology course.

The candidate will help to further develop our interdisciplinary environmental sciences major and conduct relevant research in freshwater aquatic systems. The candidate will develop and teach an introduction to environmental science course for majors, a course in environmental risk assessment, and an upper-level aquatic course in the candidate's area of expertise. The Great Lakes and other freshwater sites are attractive assets very close to the campus.

Routinely ranked in the top 10 in the Northeast by *Money Magazine* and by *U.S. News and World Report*, SUNY Fredonia is a selective public undergraduate liberal arts college. Our majors benefit from opportunities to work closely with faculty in ongoing research. Candidates must possess a Ph.D., and postdoctoral experience is highly recommended. The complete application includes an application letter, curriculum vitae, statements of research interests and teaching philosophy, unofficial copies of undergraduate and graduate transcripts, and three letters of reference. Review of complete applications will begin April 15, 2000. Send materials to: **Search Committee, Department of Biology, SUNY Fredonia, Fredonia, NY 14063**. Website: <http://www.fredonia.edu/departments/biol.htm>; e-mail: biology@fredonia.edu.

SUNY Fredonia is an Affirmative Action/Equal Opportunity Employer. We actively seek and encourage applications from minorities, women, and people with disability.

MOLECULAR/POPULATION ECOLOGIST RESEARCH ASSOCIATE

The National Wildlife Research Center, a U.S. Department of Agriculture (USDA) research facility in Fort Collins, Colorado, is seeking a Molecular Biologist/Ecologist to develop DNA-based techniques for censusing coyote and wolf populations from noninvasive samples such as hair, feces, and saliva. Ideal candidate is a self-starter with a working knowledge of PCR and microsatellite and mitochondrial DNA marker techniques. Candidates should have the ability to develop and analyze genetic libraries to identify genetic markers for population studies. Candidates should also be able to design field studies, perform sample analysis, and analyze the resulting data to permit censusing of populations and/or identification of individuals. A thorough knowledge of population genetics and a working knowledge of population genetics software packages is necessary. Applicants for this GS-11 (\$41,834 plus benefits), two-year term position (may be renewed for an additional two years) should contact: **Dr. John Johnston, National Wildlife Research Center, 4101 La Porte Avenue, Fort Collins, CO 80521**. E-mail: john.j.johnston@usda.gov. There is a potential for this position to develop into permanent employment. Additional information at [website: http://www.aphis.usda.gov/ws/nwrc/](http://www.aphis.usda.gov/ws/nwrc/). *The U.S. Department of Agriculture is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately for NIH-funded project on DNA double-strand break processing and repair. Requires Ph.D. in biochemistry, embryology, radiobiology, or related discipline, preferably with one or more years of experience in DNA damage/repair. *Xenopus laevis*, and general DNA/protein molecular biology. Salary: \$27,000 to \$32,000 per year. Send curriculum vitae and names of three references by April 15, 2000, to: **Dr. Lawrence F. Povirk, Department of Pharmacology and Toxicology, Medical College of Virginia, Virginia Commonwealth University, P.O. Box 980230, Richmond, VA 23298-0230**.

SCHWEIZERISCHES NETZWERK FÜR INNOVATION
RESEAU SUISSE D'INNOVATION
RETE SVIZZERA D'INNOVAZIONE
RAIT SVIZRA PER L'INNOVAZIUN
SWISS NETWORK FOR INNOVATION

SNI - RSI

KNOW-HOW TRANSFER

The newly founded **Swiss Network for Innovation** supports **knowledge and technology transfer** between Swiss research and educational institutions and the industry.

For this assignment we seek a dynamic

Managing Director

You are either an engineer or natural scientist, have initiated one or more start-ups or have managed the area of development or technology transfer in a larger enterprise. You are experienced in product, development or marketing management and possess well-versed negotiating skills.

Fluent in German, French and English, you are used to being successful in your endeavors. Place of work is Berne. We offer an excellent salary.

Please send your handwritten application to:

Prof. John C. Badoux, President of the SNI-RSI, EPFL, CH-1015 Lausanne, Switzerland



Computational Chemist

The Company

Tripos Inc is a leading discovery research organisation that provides innovative, value-added products and services to the life science industry. Our unique discovery process integrates information technology with experimental chemistry and biology to create viable drug candidates faster and more efficiently. Our state of the art synthetic chemistry laboratories are located at Tripos Receptor Research Ltd in North Cornwall.

The Job

Working in a small team of computational chemists, you will be working closely with synthetic and analytical chemists in an interdisciplinary environment. Your work will centre on the design of compounds for general screening, focussed and targeted libraries. These libraries will be provided primarily to our partners in the pharmaceutical and biotechnology industries.

The Person

You will have a PhD in Computational Chemistry or a related field, and a good background in organic chemistry. Knowledge of scripting or higher level programming languages in a Unix environment is expected, as is experience in the use of commercial molecular modelling software packages. Experience in the administration and use of structural and relational databases would be beneficial.

To apply please email or send your CV (quoting reference S1) to:
Guy Dickson, Human Resources
Tripos Receptor Research Ltd e-mail: gdickson@tripos.com
Tamar Laboratory Tel: 44 (0) 1288 359359
Bude-Stratton Business Park
Bude, Cornwall EX23 8LY, U.K.

www.tripos.com/trr

ANNOUNCEMENTS

INTERBREW-BAILLET LATOUR HEALTH PRIZE - 2001

Application Field:

The tuberculosis.

Amount:

The Prize will amount to **six million Belgian Francs** (6,000,000 BEF - 150,000 EUROS).

The Prize is awarded to persons working in the field of scientific research and / or its practical applications. The Prize will recognize the scientific merit of the winner and should assist him or her in the pursuit of his or her work.

Candidates to the Prize may be of Belgian or foreign nationality.

Candidatures must reach the Secretary General of the F.N.R.S., rue d'Egmont 5, B - 1000 Brussels (Belgium) before **September 15, 2000**. The personality proposing the candidature must provide a memorandum, at least three pages in length and drawn up in English, on the candidate's merits.

Regulations:

The regulations can be obtained from the secretariat of the F.N.R.S., rue d'Egmont 5, B - 1000, Brussels, tel: +32 (0) 2 504.92.11, fax: +32 (0) 2 504.92.92, email: mjsimoen@fnrs.be

POSITIONS OPEN

POSTDOCTORAL POSITION INVESTIGATE FUNCTION AND DYSFUNCTION OF HUMAN ONCOPROTEIN MDM2

Applications are invited from recent graduates for a Postdoctoral position in the laboratory involved in understanding molecular biology of tumorigenesis and role of the human oncoprotein MDM2 in etiology of cancer. This position is to investigate the biochemical mechanism of human MDM2-mediated growth regulation in normal cells. Individuals with expertise in cDNA technology, DNA sequencing, mammalian cell culture systems, or expression analysis in transgenic mice are especially encouraged to apply. Salary negotiable. Send curriculum vitae and three letters of reference to: **Dr. Swati Palit Deb, Associate Professor, Virginia Commonwealth University, Department of Biochemistry and Molecular Biophysics, Box 980614, Richmond, VA 23298-0614.**

RESEARCH FELLOW

A POSTDOCTORAL POSITION funded by an NIH grant is available in the laboratory of **Dr. Chih-Pin Liu** to study T cell antigen receptor-mediated signaling events on T cell immunity. The focus of the project is to understand immunologic, molecular, and cellular mechanisms that regulate T cell functions responsible for mucosal immunity and autoimmunity. Expertise in immunology, cell biology, and molecular biology are desirable. The laboratory is part of the graduate program in biological sciences at the Beckman Research Institute of the City of Hope Medical Center located near Los Angeles. Send curriculum vitae, statement of research interest, and the names of three references to: **I. Abich, Academic Personnel Office, City of Hope, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 626-930-5394.**

POSTDOCTORAL POSITION INVESTIGATE THE ROLE OF P53 MUTATIONS IN ONCOGENESIS

Applications are invited for a Postdoctoral position in a laboratory involved in understanding the molecular biology of the tumor suppressor p53. This position is to identify the pathway affected by p53 mutations leading to oncogenesis. Individuals with expertise in recombinant DNA technology (particularly DNA sequencing), cDNA technology, and mammalian cell culture systems are especially encouraged to apply. Salary negotiable. Send curriculum vitae and three references to: **Dr. Sumitra Deb, Professor, Virginia Commonwealth University, Department of Biochemistry and Molecular Biophysics, Box 980614, Richmond, VA 23298-0614.**

POSTDOCTORAL POSITION available immediately to study oxidative damage using transgenic mouse models with altered antioxidant defense systems. Experience in molecular techniques required; experience in mitochondrial biochemistry is desirable. Send curriculum vitae, statement of research interests, and names of three references to: **Arlan Richardson, Ph.D., Director, Aging Research and Education Center, Department of Physiology-7756, University of Texas Health Science Center at San Antonio, TX 78229-3900. E-mail: richardsona@uthscsa.edu. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION studying signal transduction involving alpha adrenergic receptors systems, especially mechanisms by which alpha1 receptors stimulate protein phosphorylation and gene expression and to define the mechanisms responsible for the tolerance to alpha2 adrenergic agonists. *U.S. citizenship or permanent residency required.* Send curriculum vitae and the names of three references to: **Brian B. Hoffman, M.D., Professor of Medicine, Stanford University School of Medicine, Department of Medicine, VAPAHCS, Medical Service (111), 3801 Miranda Avenue, Palo Alto, CA 94304. E-mail: bhoffman@leland.stanford.edu.**

POSITIONS OPEN

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION THE ROCKEFELLER UNIVERSITY

A position is immediately available for a talented and creative scientist at the POSTDOCTORAL or RESEARCH ASSOCIATE level. The project involves an interdisciplinary approach to understanding a complex human disorder and requires the integration of molecular biology, neurobiology, genetics, physiology, pharmacology, psychiatry, and psychology into a comprehensive study program. Familiarity with DNA sequencing, PCR, cloning, and related molecular biology procedures required. Experience with cell culture and mammalian expression systems or microarray technology desirable. Respond to: **Dr. Mary Jeanne Kreek, M.D., Box 171, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E-mail: laforgk@rockvax.rockefeller.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION RNA-PROTEIN INTERACTIONS

Position available immediately to study structure/function relationships in poly(A) polymerase/mRNA cap-specific methyltransferase. This is an excellent opportunity for someone motivated in the areas of gene regulation and/or posttranscriptional RNA modification. Experience in the areas of protein and/or nucleic acid biochemistry is preferred. Send curriculum vitae and names of three references to: **Dr. Paul D. Gershon, c/o Diana Taylor, Texas A&M University System Health Science Center, Institute of Biosciences and Technology, 2121 West Holcombe Boulevard, Houston, TX 77030. Telephone: Job Line 713-677-7717; FAX: 713-677-7725; e-mail: pgershon@ibt.tamu.edu; website: www-ibt.tamu.edu/gershon/pg.htm.**

Texas A&M University System Health Science Center, Institute of Biosciences and Technology, is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for a Ph.D./M.D. or Ph.D. graduate to work on the role of inflammation and sex steroids on amyloid deposition related to Alzheimer's disease. Future extension of the project into related topics is likely. Projects involve work on experimental animal models, including transgenic mice. Candidates should have a thorough knowledge of mammalian and neuroanatomy and have experience in handling rats and mice in pharmacological neurosurgical experiments. A working knowledge of the basic molecular/cellular methodologies is also highly desirable. Please forward a curriculum vitae and any related information to: **Vassilis E. Koliatsos, M.D., Ross Building, Room 558, Johns Hopkins University School of Medicine, Division of Neuropathology, 720 Rutland Avenue, Baltimore, MD 21205. FAX: 410-955-9777; E-mail: koliat@jhmi.edu.**

Two POSTDOCTORAL POSITIONS are available to study macromolecular complexes in NF kappa B/I kappa B signaling and mRNA transport pathways, using X-ray crystallography and biochemistry. Candidates with strong background in X-ray crystallography and/or biochemistry are preferred. Send curriculum vitae and names and addresses of three references to: **Dr. Gourisankar Ghosh, Department of Chemistry and Biochemistry, University of California-San Diego, La Jolla, CA 92093-0359. FAX: 858-534-7042; e-mail: gghosh@chem.ucsd.edu.**

POSTDOCTORAL POSITIONS CELL CYCLE CONTROL

Two Postdoctoral positions available immediately. One concerns the effects of environmental agents on cell cycle control. The second involves the use of novel gene transfer technology to restore tumor suppressor gene function. Requires strong background in cell and molecular biology. Contact: **Dr. Nicholas Heintz, Department of Pathology, University of Vermont, Burlington, VT 05405. Telephone: 802-656-0372; e-mail: nickh@salus.uvm.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Research positions available to investigate the roles of (1) Factor VII, tissue factor (TF), and TFPI or (2) protein Z (PZ) and protein Z-dependent protease inhibitor (ZPI) in thrombosis, atherosclerosis, and tumor growth and metastasis. Work would involve biochemistry, molecular biology, cell biology, and/or the evaluation of TF, TFPI, PZ, and ZPI gene-deleted mice. Applicants should send a résumé and the names of three references to: **George Broze, M.D., Division of Hematology, Box 8125, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: gbroze@im.wustl.edu; FAX: 314-362-8813. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available to study conformational changes in actomyosin and in ion channels (voltage controlled and ligand gated). Biophysical and fluorescence techniques at both ensemble and single-molecular levels will be used. See *Nature* 402:813, 1999, or *PNAS* 95:15309, 1998, or website: www.physics.uiuc.edu/People/Faculty/Selvin/. Experience in protein manipulation and/or biophysical techniques desired. \$35,000 per year. Send curriculum vitae with list of publications and names of three references to: **e-mail: selvin@uiuc.edu or Prof. Paul Selvin, Loomis Laboratory, 1110 West Green Street, University of Illinois, Urbana, IL 61801.**

POSTDOCTORAL POSITION NEUROPHARMACOLOGY

Available immediately to study behavioral and neurochemical adaptations following opiate dependence and withdrawal. Experience with stereotactic surgery, microdialysis, and neuroanatomy techniques required. Send research interests, curriculum vitae, and references to: **Kenneth Grasing, M.D., Associate Chief of Staff for Research, Department of Veterans Affairs Medical Center, Research (151), 4801 East Linwood Boulevard, Kansas City, MO 64128. E-mail: kenneth.grasing@med.va.gov. Equal Employment Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP MOLECULAR GENETICS

An NIH-supported Postdoctoral position is available to study the molecular biology of sterol synthesis and regulation in the yeast *Saccharomyces cerevisiae* (*PNAS* 96:12655, 1999). An individual with experience in molecular biology and protein biochemistry is preferred. Send curriculum vitae and the names of three references to: **Dr. Martin Bard, Indiana-Purdue University Indianapolis, Department of Biology, 723 West Michigan Street, Indianapolis, IN 46202. Website: <http://www.biology.iupui.edu/research>; e-mail: mbard@iupui.edu.**

POSTDOCTORAL POSITION

Available immediately: a Postdoctoral position to synthesize and study peptide-based inhibitors of tyrosine kinases. Please send curriculum vitae and the names and addresses of three references to: **Dr. John McMurray, The University of Texas M. D. Anderson Cancer Center, Department of Neuro-Oncology, Box 316, 1515 Holcombe Boulevard, Houston, TX 77030. E-mail: jmcmmur@mdanderson.org. The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke-free environment.**

A POSTDOCTORAL POSITION is available to study microtubule motor proteins, especially cytoplasmic dynein and dynactin, and their role in mitosis, neuronal transport, and human brain development and disease. For more information, see website: <http://www.umassmed.edu/celldynamics/faculty/vallee.cfm>. Submit curriculum vitae and names of three references to: **Dr. Richard Vallee, University of Massachusetts Medical School, 377 Plantation Street, Worcester, MA 01605. E-mail: Richard.Vallee@Umassmed.edu. Affirmative Action/Equal Opportunity Employer.**



THE SCHOOL OF PHARMACY University of London

The School of Pharmacy, an independent self-governing institute of the University of London with direct funding from the HEFCE, has been 5 rated in all the Research Activity Exercises to date and has recently been awarded 23 out of 24 points for its teaching by a Quality Assurance Agency Subject Review.

The School seeks to make important strategic appointments to the following two senior posts. It is hoped that the new appointees will take up their positions by October 2000.

Chair of Pharmaceutics

The School is seeking to appoint a successor to Professor J. Michael Newton who will be retiring from this chair. The person appointed will have a strong record of original research in any relevant branch of pharmaceutics and the attributes to lead a strong team to maintain the international reputation of the school in this discipline. The person appointed will be expected to be willing to assume headship of the department at some time.

Chair of Drug Delivery Research

The School wishes to appoint a successor to Professor Gregory Gregoriadis to lead the Centre for Drug Delivery Research which was founded in 1990. Applicants with interests in any field of drug delivery are invited to apply for this post. The person appointed will already have established a record of recognised research in drug delivery or targeting, biosensors, pharmaceutical nanotechnology, microfabrication or other emerging area of delivery.

For an informal discussion, in confidence, on either of the above posts, please contact the Dean, Professor A T Florence: Tel: +44 (0)20 7753 5819 Fax: +44 (0) 20 7837 5092 E-mail: a.t.florence@ulsop.ac.uk

Further particulars on the above positions can be obtained from Miss Jagrati Dhanji, Personnel Officer: Tel: +44 (0)20 7753 5813 Fax: +44 (0)20 7753 5941 E-mail: personnel@ulsop.ac.uk

Applications, in the form of a covering letter and full CV listing the names and addresses of three academic referees, should be sent to: Dr Nicholas Gair, Assistant Secretary, The School of Pharmacy, 29-39 Brunswick Square, London, WC1N 1AX, UK by the closing date of Friday 31st March 2000. Please mark the envelope clearly with the title of the position for which you are applying.



TAKE OFF

Make your reservations now: Analytica, the leading international trade fair for the laboratory, opens on 11 April 2000. Get an overall view of equipment, applications, and forward-looking technologies – the full spectrum of industrial and process analysis, right through to the life sciences. All the leading names will be there!

Request **visitor information** from

Fax (+49 89) 9 49-1 14 89

Analytica 2000

17th International Trade Fair and *Analytica* Conference for Analysis, Biotechnology, Diagnostics and Laboratory Technology

11-14 April 2000

New Munich Trade

Fair Centre

www.analytica.de



Further information, from:
Messe München GmbH, Messengelände,
D-81823 München, info@messe-muenchen.de

POSITIONS OPEN

JAMES BOSWELL POSTDOCTORAL FELLOWSHIP

California Institute of Technology
Pasadena, California

The California Institute of Technology and The Huntington Medical Research Institutes announce the availability of an endowed Postdoctoral Fellowship for collaborative research. This two-year Fellowship is open to men and women who have recently received their Doctorates and are interested in doing research in the areas of neurological magnetic resonance spectroscopy, neural prostheses, functional electrical stimulation of the nervous system, cancer genetics, cardiovascular physiology, or other areas closely related to the interests of faculty members at California Institute of Technology (Caltech) and HMRI. The Boswell Fellowship provides an annual stipend commensurate with Fellow's qualifications, as well as the eligibility to participate in Caltech's health and dental program. Application should include a letter outlining specific field of research and a curriculum vitae. Three letters of reference should be submitted directly. All correspondence should be addressed to:

James Boswell Postdoctoral Fellowship Committee
California Institute of Technology
Mail Code 216-76
Pasadena, CA 91125

Completed applications with references should arrive at Caltech before June 1, 2000.

Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

The Laboratory of Vaccine Research, Department of Virology, at the Beckman Institute of the City of Hope has **TWO OPPORTUNITIES** at the **POSTDOCTORAL LEVEL** in vaccine research. Position I requires background in cellular immunology, using mouse models, familiarity with cytotoxic T cell assays, flow cytometry, and experience with infectious disease models. Studies involve evaluating the strength of lipopeptide vaccines at stimulating CTL immunity, utilizing transgenic mice. Position II requires an experienced Research Fellow who is familiar with viral immunology in the setting of leutivirus infection, an individual familiar with *in vitro* infection of target cells with HIV isolates, and the enumeration of cytotoxic responses utilizing chromium release assays. Familiarity with handling and titrating HIV stocks is a requirement for this position. Please send curriculum vitae, a summary of research experience/interests, and contact information for three references to: **Ileana Abich, Helford Building, Room 1013, City of Hope, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 626-930-5394.**

POSTDOCTORAL ASSOCIATE to assist in the performance of neuroscience research on the development of the central nervous system. Required qualifications: Doctoral degree in a field of medical biology, chemistry, psychology, or a related field with experience performing original research. Highly desirable: experience with tissue culture and experience with pharmacological and molecular biology techniques. Desirable: experience in neuroscience and/or developmental biology research. Please refer résumé to: **Michael W. Miller, Ph.D., University of Iowa Department of Psychiatry, Psychiatry Research 1-286 MEB, Iowa City, IA 52242-1000. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.**

POSTDOCTORAL/INSTRUCTOR POSITIONS HARVARD MEDICAL SCHOOL

To study the molecular mechanisms of autoimmune disease. Experience in chemokines/cytokines required. Experience in macrophage biology, gene transfer, and/or kidney disease desirable. Send résumé and references to: **Dr. Vicki Rubin Kelley; e-mail: vkelly@rics.bwh.harvard.edu; FAX: 617-525-5830.**

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website, which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

www.training.nih.gov

NIH is dedicated to building a diverse community in its training and employment programs.

THREE RESEARCH FELLOWS NEUROSCIENCE/BROWN UNIVERSITY

Three **POSTDOCTORAL POSITIONS** are available July 1, 2000, in neuroscience at Brown University. Training faculty in the Department of Neuroscience and the recently established Brain Science Program include: **C. M. Alberini, J. A. Anderson, M. F. Bear, D. A. Bereiter, D. M. Berson, R. D. Burwell, B. W. Connors, L. N. Cooper, J. P. Donoghue, J. R. Fallon, G. B. Kaplan, D. Lipscombe, D. Mumford, M. A. Paradiso, A. M. Simmons, J. A. Simmons, and J. M. Walker.**

The training program emphasizes use of combined methods at different levels of analysis to understand specific brain systems and their contribution to behavior, perception, or cognition. Applicants, through their curriculum vitae and letters of recommendation, should demonstrate superior research potential. Ph.D., M.D., or equivalent is required. For more information about research opportunities, see **website: <http://brainscience.brown.edu>**.

Send curriculum vitae, statement of research interest, and names of three references to: **Mark Bear, Ph.D., Program Director, Department of Neuroscience, Box 1953, Brown University (NTG), Providence, RI 02912. E-mail: mbear@brown.edu. Brown University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITIONS BRIGHAM AND WOMEN'S HOSPITAL

Two positions are available at the Postdoctoral level with the possibility of promotion to faculty level. Areas of research include: the function of novel membrane proteins (ion channels and receptors) and the molecular genetics of human kidney, pancreas, and bone diseases.

The studies will be carried out within the Membrane Biology Program (**website: <http://membranebiology.bwh.harvard.edu>**). Individuals should possess a Ph.D. or M.D. degree with experience in molecular biology and/or genetics, electrophysiology, cell biology, or developmental biology. Salary will be commensurate with training and experience. *U.S. citizens and permanent residents are desirable due to funding sources.* Please send curriculum vitae to: **Dr. J. Zhou, HIM Room 520, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-525-5830; e-mail: zhou@rics.bwh.harvard.edu. Brigham and Women's Hospital is an Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Immunology/Virology/Multiple Sclerosis Fellowship: The Multiple Sclerosis Center at The New York Hospital-Cornell University Medical College is seeking qualified scientists to conduct basic research in multiple sclerosis. Potential for junior faculty position and laboratory directorship. Accepting applicants with Ph.D. and/or M.D. degree and strong training in cellular and molecular biology, with interests in neuroscience, immunology, or virology. Contact: **Brian R. Apatoff, M.D., Ph.D., Department of Neurology and Neuroscience. Telephone: 212-746-4504; FAX: 212-746-8082; e-mail: brapatof@mail.med.cornell.edu. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

PRE- AND POSTDOCTORAL FELLOWSHIPS IN SKELETAL RESEARCH

NIH-funded training grant at Case Western Reserve University. Available faculty include: **R. Tracy Ballock, M.D.:** growth plate differentiation; **Dwight T. Davy, Ph.D.:** mechanics of hard tissues and joints; **Edward M. Greenfield, Ph.D.:** bone turnover in response to PTH and orthopaedic wear debris; **Thomas M. Hering, Ph.D.:** molecular biology of articular cartilage; **Brian Johnstone, Ph.D.:** chondrogenesis, genetic manipulation of cells; **Joseph M. Mansour, Ph.D.:** mechanical behavior of cartilage; **P. Hunter Peckham, Ph.D.:** functional electrical stimulation; **Clare M. Rimnac, Ph.D.:** implant materials performance; **Ronald Triolo, Ph.D.:** FNS, human movement analysis; **Clayton Van Doren, Ph.D.:** kinesthetic function, sensory feedback for prostheses; **Jean Welter, M.D., Ph.D.:** Molecular and cellular biology, mechanical effects on gene expression. *Must be U.S. citizen or permanent resident.* Send a description of research interests and curriculum vitae to: **Valerie Schmedlen, Department of Orthopaedics, Case Western Reserve University, 11100 Euclid Avenue, Cleveland, OH 44106-5043. E-mail: Valerie.Schmedlen@uhhs.com.**

POSTDOCTORAL FELLOWSHIP in positron emission tomography (PET) at University of Southern California. Seeking applicants with potential to become independent investigators in development of new radiotracers and imaging methodologies for PET. Fellow will work on projects involving use of PET (1) in gene therapy of cancer and (2) to predict response to anticancer chemotherapy. Requires Ph.D. or M.D. with training/experience in experimental science. Strong background in biochemistry and molecular biology is desirable. Other relevant training/experience: medical imaging, kinetic modeling, use of animal models. Two-year Fellowship available immediately with possibility of subsequent faculty position. Excellent opportunity for those with background in experimental therapeutics, gene therapy, or angiogenesis who are interested in applying their expertise within the new field of functional imaging. To apply, send curriculum vitae, names of three references, plus brief statement of career goals and interest in this position. Contact: **James Bading, Ph.D., University of Southern California PET Imaging, 1510 San Pablo Street, Suite 350, Los Angeles, CA 90033. Telephone: 323-442-3254; FAX: 323-442-3253; e-mail: jbading@hsc.usc.edu.**

POSTDOCTORAL POSITION in developmental neurobiology available to study the interaction between neuronal activity and neurotrophic factors during vertebrate visual system development. A multidisciplinary approach will be used to examine the signaling mechanisms controlling axon and dendritic arborization *in vivo*. A combination of neuropharmacology, *in vivo* confocal microscopy imaging, calcium imaging, photoactivation of caged compounds, and cell culture techniques will be used. Send curriculum vitae, a brief description of research interests, and names of three references to: **Dr. S. Cohen-Cory, Mental Retardation Research Center, University of California Los Angeles School of Medicine, 760 Westwood Plaza, 58-258 NPI, Los Angeles, CA 90095. E-mail: scohen@ucla.edu. UCLA is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS are available to study (1) the role of cytokines and costimulatory molecules in T cell-mediated control of persistent viral infections and (2) the regulation of leukocyte trafficking by chemokines during viral respiratory infections. Applicants should have a Ph.D. and experience in virology or cellular immunology. Interested individuals should send their curriculum vitae and the names and addresses of three references to: **Dr. Sally R. Sarawar, Division of Molecular Immunology, La Jolla Institute for Allergy and Immunology, 10355 Science Center Drive, San Diego, CA 92121. Telephone: 858-678-4661; FAX: 858-558-3526; e-mail: ssarawar@liai.org; website: <http://www.liai.org>.**

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE (two positions available). National Center for Ecological Analysis and Synthesis (NCEAS)/University of California, Santa Barbara: Participate in research and educational components of a multi-institution NSF grant titled "A Knowledge Network for Biocomplexity." Collaborating institutions include: Long-Term Ecological Research (LTER) Program Network Office, San Diego Supercomputer Center (SDSC), and Texas Tech University (TTU). Proposal and position description appear at **website:** <http://www.nceas.ucsb.edu>. Individuals must be interactive, independent, creative, and committed to a three-year project. Responsibilities: **RESEARCH AND TECHNOLOGY ASSOCIATE (TTU)** must have (1) interests in multidisciplinary and multiscale ecological research, (2) well-developed skills in quantitative ecology or bioinformatics, and (3) familiarity with database management/manipulation. A Ph.D. in some field of ecology or bioinformatics is preferred, as is postdoctoral experience and involvement in database management/development. The individual will be located at TTU but will be expected to travel frequently. **RESEARCH AND EDUCATION ASSOCIATE (NCEAS)** must have interests in (1) multidisciplinary and multiscale ecological research; (2) pedagogy, including development of new methods to foster collaborative skills in graduate students; and (3) database development/management/manipulation. Excellent communication and quantitative skills; Ph.D. in ecology, informatics, geography, or related discipline. The individual will be resident at NCEAS but will be expected to travel frequently. Review of applications to begin immediately. To apply, send a letter of application, statement of research interest, and curriculum vitae via **e-mail:** postapp@nceas.ucsb.edu (specify Biocomplexity TTU or Biocomplexity NCEAS in subject field) or by **mail to:** Dr. Sandy Andelman, NCEAS, 735 State Street, Suite 300, Santa Barbara, CA 93101-5504. In addition, three letters of recommendation are required. A clear indication of TTU or NCEAS must appear in the application. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE in molecular biology: A two-year Postdoctoral position in bacterial molecular biology is being sought to work on a well-funded project studying immunity to *Pasteurella haemolytica* in cattle using recombinant outer membrane proteins and DNA vaccines. The successful individual should have an earned Doctorate degree, research experience in recombinant DNA technology and bacterial molecular genetics, and a working knowledge of immunology. Interested individuals should send a curriculum vitae; letter stating research and postdoctoral education goals; and names, addresses, e-mail addresses, and telephone numbers of three references to: Dr. A. W. Confer, Associate Dean for Research and Graduate Education, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74078-2007. For full consideration, applications should be received by April 15, 2000. Inquiries can be addressed to Dr. Confer at **e-mail:** aconfer@okstate.edu or **Telephone:** 405-744-4542.

Oklahoma State University is an Affirmative Action/Equal Employment Opportunity Employer committed to multicultural diversity.

POSTDOCTORAL POSITION available to study the role of the transcription factor C/EBP beta in liver growth. This project involves the identification of signaling pathways that are responsible for the growth-promoting effects of C/EBP beta, using mouse models of liver injury and growth and cell culture approaches. Ph.D. in biochemistry, molecular biology, or related field required. Please send curriculum vitae and names of three references to: Linda Greenbaum, M.D., Department of Medicine/Division of Gastroenterology, 678 CRB, 415 Curie Boulevard, University of Pennsylvania Medical School, Philadelphia, PA 19104-6140. **E-mail:** greenbal@mail.med.upenn.edu. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION RESUSCITATION/ACID-BASE RESEARCH

The Cardiopulmonary Research Laboratory at University of Pittsburgh Medical Center is seeking a highly qualified Postdoctoral Researcher to join a group studying the effects of resuscitation on inflammation and organ function in animal models of sepsis. This position is available starting immediately, and a comprehensive benefits package is included. Applications will be considered until the position is filled.

Qualifications: M.D. or Ph.D.; training in biochemistry or molecular and cell biology is required. Preference will be given to candidates with experience in RT-PCR, Northern and Western blot analysis, and in working with small animal preparations. Send résumé to:

John A. Kellum, M.D.
Division of Critical Care Medicine
640b Scaife Hall
University of Pittsburgh Medical Center
Pittsburgh, PA 15213-2582
E-mail: kellumja@anes.upmc.edu

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

MEETINGS

**SCHMITT SYMPOSIUM
CELL CYCLE GENES IN DEVELOPMENT,
AGING, AND DEGENERATION
August 24-28, 2000
University of Rochester School of Medicine
and Dentistry
Rochester, New York, U.S.A.**

This symposium will examine molecular mechanisms of cellular adaptations that are common among early development, normal aging, and age-related neurodegenerative diseases (with an emphasis on Alzheimer's disease). Contact: University of Rochester School of Medicine and Dentistry, Office of Continuing Professional Education, 601 Elmwood Avenue, Box 677, Rochester, NY 14642-8677. **Telephone:** 716-275-4392; **FAX:** 716-275-3721; **E-mail:** office@cpe.rochester.edu; www.urmc.rochester.edu/smd/cpe.

WORKSHOPS

**MOLECULAR TECHNIQUES WORKSHOP
University of Wisconsin-Milwaukee/NIEHS
June 26-July 14, 2000**

Designed for faculty, graduate students, postdoctorals, and other professionals interested in applying molecular biological approaches to their research. Techniques include cloning, sequencing, PCR, methods for analysis of gene expression, and more. Tuition: \$1,650. Housing/meals: \$600. Contact: Barb Wimpee, University of Wisconsin-Milwaukee/NIEHS, 600 East Greenfield Avenue, Milwaukee, WI 53204. **Telephone:** 414-382-1746; **FAX:** 414-382-1705; **e-mail:** bwimpee@uwm.edu.

GRANTS

**RETT SYNDROME RESEARCH
FOUNDATION
RESEARCH GRANTS AVAILABLE
Letter of Intent Deadline: May 15, 2000**

The Rett Syndrome Research Foundation is awarding grants to fund international biomedical research for the treatment and cure of Rett Syndrome. Funding level for grants is \$50,000 per year up to two years. **POSTDOCTORAL FELLOWSHIPS** are also available. Visit our **website:** www.rsf.org for applications and research guidelines or call **Telephone:** 513-874-3020.

MARKETPLACE

The World of Science Online

- Science Electronic Marketplace
- Science's Next Wave
- Science NOW
- Science Careers

Science

www.scienceonline.org

PRECLINICAL SERVICES

A new service oriented CRO
High quality, fast, animal testing
Perry Scientific • San Diego, California
858 467-9600 www.perryscientific.com

Circle No. 58 on Readers' Service Card

YOUR SPECIALIST FOR THE ANALYSIS
OF GENETICALLY MODIFIED RODENTS

Emorfo

WE KEEP YOU IN FOCUS™

www.frimorfo.com info@frimorfo.com

Tel: +41 26 300 8530; Fax: +41 26 300 9668; Chemin du Musée 12, 1700 Fribourg, Switzerland

Circle No. 2 on Readers' Service Card

Vapor Pressure Osmometer

The preferred method of
measuring the osmolality
of any biological fluid.
WESCOR, INC. 1-800 453-2725

Circle No. 56 on Readers' Service Card

**"SURF" & SAVE \$100/Liter
on all Agarose SEC
or Affinity Beads**



"Surf" to www.xcbeads.com
and "Do the Wave"
or call (978) 323-4450

Circle No. 34 on Readers' Service Card

Widely
Recognized
Original &
Guaranteed

KlenTaq I 8¢/u

Truncated
Taq DNA
Polymerase
Withstand 99°C

US Pat # 5,436,149
Call: **Ab Peptides** 1-800-383-3362
Fax: 314-968-8988 www.abpeps.com

Circle No. 5 on Readers' Service Card

Full Spectrum Gene Services *Remove the limits!*

GENE synthesis, codon optimization, sequencing,
cloning, library, mutagenesis, expression,
MUTATION SCREENING, tailoring... & more!

de novo gene synthesis as low as \$50p
SEQUENCING \$15/RUN plasmid, PCR
genome, SNP...

Plasmid Purification ultra-pure, large scale for gene therapy

800-214-7722. CustomerService@FlintBiopharm.com

Circle No. 57 on Readers' Service Card

MARKETPLACE



**MORE PRODUCTS
ON PREVIOUS PAGE**



Custom Antibodies & Peptides
No Hidden Charges!

Custom Antibodies from \$1295 include:

- Free consultation and tech support
- HPLC purification, MS & HPLC analysis, N/C-terminal modifications, 4-6mg peptide, 100+ml serum, ELISA & more

Custom peptides from 1mg to 10g
HPLC purification available up to 98+%

800-435-2080 • Fax: 508-435-2199
Order on-line: www.qcb.com

Circle No. 22 on Readers' Service Card

CUSTOM PEPTIDES
QUICK QUOTE
MOST QUOTES IN AN HOUR
FAST DELIVERY
2 WEEKS FOR MOST ORDERS
100% SATISFACTION GUARANTEED
NEW ENGLAND PEPTIDE, INC.
Tel: 888-343-5974
Fax: 978-343-5940 www.newenglandpeptide.com

Circle No. 3 on Readers' Service Card

CUSTOM SHOTGUN DNA LIBRARIES

- BAC, PAC, P1, Cosmid or other large insert clones acceptable
- Random M13 or pUC18 plasmid library provided
- High quality; >95% insert ratio
- 1-2 week turnaround time
- Customer satisfaction guaranteed

DNA sequencing and mini-prep services available

seqwright
TEL (713) 528-4363
FAX (713) 528-6232
www.seqwright.com
seq@blkbbox.com

Circle No. 30 on Readers' Service Card

Custom DNA Sequencing

- ♦ Long Reads ♦
- ♦ Plasmid Inserts ♦
- ♦ Sequence Done in a Week ♦

♦ Single Strand as low as ♦
\$20.00 for < 500 bases

♦ Double Strand ♦
\$30.00 up to 450 bases
\$45.00 up to 650 bases
\$70.00 up to 1600 bases

Inquire about Large Inserts and Genome Sequencing.



Toll Free: 877-694-2832 info@mwgbiotech.com
http://www.mwgbiotech.com

Circle No. 32 on Readers' Service Card



Premier Specialty Synthesis
Molecular Beacons, RNA,
Antisense Oligos & More

1-800-328-2661 - www.idtdna.com

Circle No. 28 on Readers' Service Card

MARKETPLACE

**Custom Peptides
& Antibodies**

Best Service & Price! Compare and Save!

Alpha Diagnostic (800) 786-5777

Fax (210) 561-9544; info@4adi.com

Web site: http://www.4adi.com

Circle No. 27 on Readers' Service Card

QUALITY DNA SYNTHESIS

MALDI-TOF Mass Spectrometry Quality Control

Fluorescent Dyes & Other Modifications
Gene Construction & Sequencing Services
Custom RNA Oligos & Antisense DNA Oligos
Custom Primers for PCR & Sequencing
Long Oligos (up to 150-mers)
Competitive Pricing



The Midland Certified Reagent Company

1-800-247-8766 • FAX: 1-800-359-5789

www.merc.com • email: merc@oligos.com

Circle No. 29 on Readers' Service Card

3 O.D. Select Oligos

Just \$0.60/base*

Order through our Web site and we'll ship your 3 O.D. Select oligos in just 24-48 hours. Every oligo is QC'd by PAGE analysis, and each batch is performance-tested by mass spec.

*Desalted only. Oligos must be 10 to 35 bases in length. No modifications or additional purification. Web orders only. Offer valid in U.S. only.



North America: 1-877-710-1504 • email: gorderentry@sial.com

Circle No. 24 on Readers' Service Card



Molecular Beacons

See the TriLink difference

Experience Matters

www.trilinkbiotech.com

800-863-6801

Circle No. 55 on Readers' Service Card

MERLIN® CORE SERVICES



Plasmid Purification

Endotoxin Removal

Any Amount

1-800-4-BIO-101 • www.bio101.com

Circle No. 26 on Readers' Service Card

MARKETPLACE

BIO-SYNTHESIS, INC.

PEPTIDES*
Milligrams to Grams
Desalted to >95% purity
HPLC and Mass Spec included
High Turnaround
Fast Turnaround
* Also available: **Antipeptide Antibodies**
www.biosyn.com **1-800-227-0627**
Please be sure to mention this ad! Offer is good thru 9/2/00

Circle No. 33 on Readers' Service Card

Quality Peptides & Antisera

Friendly, Personal Service
www.genosys.com

Custom Peptide Synthesis

- sequence analysis
- IG, >70%, >80%, >95% purity
- scales from 2 mg-l g
- variety of modifications available
- mass spec & HPLC on every peptide
- satisfaction guaranteed

Polyclonal Antisera Service

- antigen design assistance
- synthesis, conjugation and sera collection
- flexible protocol



North America
1-877-710-1502
ginfo@sigma-genosys.com

Europe
(+44) (0) 1223 839000
info@sigma-genosys.co.uk

Circle No. 23 on Readers' Service Card

**Highly Purified Salt Free
Oligonucleotides**

Custom DNA Synthesis

**PSF (Purified Salt Free) &
HPSF (Highly Purified Salt Free) Grade**

♦ Failure products removed ♦ Salt Removed

♦ MALDI-TOF production QC

♦ No Metal Ions ♦ Modifications available

Starting at \$0.49/base for PSF Grade
(0.01 μmol scale) Volume discounts available.

Never a purification or setup fee!
For reactions that work...every time!



Online Ordering & Tracking

Toll Free: 877-694-2832 info@mwgbiotech.com
http://www.mwgbiotech.com

Circle No. 31 on Readers' Service Card

Custom Peptides

\$14/residue

3 days turn around
Free Mass Spec
HPLC/UV Trace
8-17 residues
20-50 mg (Desalted)

Please inquire for modified peptides

Tel: 800-597-7873
925-371-1070
Fax: 925-371-1156

email: peptide@peptidogenic.com

PeptidoGenic The Peptide Engineering Specialist

Circle No. 1 on Readers' Service Card

Custom DNA

Purified & Delivered in 48 Hours

\$1.20 per base • Purified

http://www.resgen.com

Research Genetics, Inc.

1-800-533-4363

Circle No. 25 on Readers' Service Card

FLUORESCENT PROBES & MOLECULAR BEACONS

- Unconditional Guarantee
- Fast Turnaround
- Competitive Prices

A SAMPLE OF OPERON PROBES

Dual Fluorescent Labeled Probes

- 5' label: 6-FAM, Tet or Hex
- 3' label: TAMRA or ROX

Price includes HPLC Purification

Priced as low as
\$220

Molecular Beacons

- 5' label: Fluorescein or ROX
- 3' label: Dabcyl

Price includes PAGE Purification

Priced as low as
\$175

Fluorescein Single Labeled Probes

- 3' or 5' or internally labeled

Priced as low as
\$50

Biotin Modification

- 3' or 5' or internally labeled

Priced as low as
\$50


OPERON
OPERON TECHNOLOGIES, INC.

1000 Atlantic Ave, Suite 108, Alameda, CA 94501

Phone: (510) 688-2248 FAX: (510) 865-5255 Customer Service Hours: 7 am to 5 pm PST E-mail: dna@operon.com

order online @ www.operon.com

Circle No. 18 on Readers' Service Card



*My method says the
gene is upregulated.*



**GENE EXPRESS
NATIONAL ENTERPRISES**

2130 S. Memorial Pkwy. • Huntsville, AL 35801

888-711-8702 • FAX 888-711-8703

*I'm confused.
My method says it's not
regulated at all.*

*Maybe we need
to find a standard.*

COMMUNICATE

Use the Standard in Gene Expression Analysis from G.E.N.E., Inc.

YOU want reproducible gene expression data...

YOU want to compare your gene expression data to data generated in laboratories throughout the world...

YOU want to communicate your gene expression data through a common database, shared by all.

"The lack of a common language for gene function is proving to be a serious problem." (Science 256:449). G.E.N.E. is providing a standard by which all scientists can share their valuable gene expression data. We provide a single mixture of competitive templates that serves as an internal standard for many genes. The mixture presently contains standards for 100 genes, and standards for more genes are added each week. Our public databank based on this standard allows a synergistic increase in knowledge through the combined efforts of laboratories throughout the world.

Use G.E.N.E. standardized RT-PCR as a follow-up to microarray screening or as your primary gene expression analysis method. Compared to real-time RT-PCR, G.E.N.E. standardized RT-PCR provides greater sensitivity, greater reproducibility, and data in standardized units that may be combined into indices. For an updated list of the genes represented in available mixes and to access our databank, visit our website at www.genenat.com.

Circle No. 41 on Reader Service Card