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## TECH.SIGHT

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#### PRODUCTS

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curate determination of antimicrobial effects. By measuring the differential binding of fluorescent reagents to individual microbes, the system can quickly and accurately identify susceptible and resistant organisms in seconds, without the delay associated with growth inhibition methods. It can also be used to determine antimicrobial kinetics, synergy, and dose response. Bio-Rad Laboratories. For information call 800-2-BIORAD or circle 142 on the Reader Service Card.

#### **Biological Indicators**

The Sure and Sterilamp II biological indicators allow users to monitor the effectiveness of steam sterilizers without sending biological indicators to an outside lab. The indicators allow users to verify the sterility of instruments, vials, media, liquid cycles, and other products in just 2 days using their own incubator. Barnstead/Thermolyne. For information call 800-553-0039 or circle 143 on the Reader Service Card.

#### Electrically Driven Separation Membranes

The new family of IonClad Electrically Driven Separation membranes is based on a proprietary radiation grafting technology. The membranes come in anionic and cationic formats. They are reinforced, making them dimensionally stable, durable, and easy to handle. They can withstand high pH and high temperatures and are shipped dry. They are appropriate for electrodialysis and as cell separators for use within electrolysis cells and electrochemical sensors. Pall. For information call 800-362-6276 or circle 144 on the Reader Service Card.

#### **Ultrasonic Cleaners**

Bransonic tabletop ultrasonic cleaners is a new line featuring five sizes ranging from  $^{1}/_{2}$  to  $^{51}/_{2}$  gallons. Models are available with heater, timer, or full digital controls with display and feature heavy-duty 40 kHz ultrasonic transducers usually found only on larger industrial equipment. The devices feature a durable, impact-resistant plastic enclosure that withstands the toughest cleaning solutions and environments, rugged stainless steel tanks with no corner welds or

other dirt-catching surfaces, a recessed cleaning tank for fewer spills and drips, and solid-state circuitry. Branson Ultrasonics. For information call 203-796-0400 or circle 145 on the Reader Service Card.

#### Signal Transduction Research Reagents

More than 40 new bioactive peptides for use in signal transduction and basic peptide research have been introduced. The line includes new peptides such as CTOP, SPARC Fragment 119-122, Orphanin FG, Urocortin, Astressin, Influenza hemagglutinin (HATag) peptide, c-erb-3 Fragment 1265-1278, Amyloid β-Protein Fragment 1-43, Leuprolide, and Leptin fragment 22-56. More than 40



new inhibitors have been introduced, including CNQX, Rab GDP Dissociation Inhibitor, Apstatin, 06 Benzylguanine, and Carmustine. Bioactive lipids include more than 30 myoinositol derivatives such as IP4, Ins[1,4,5]P3, scyllo-Inositol (DTLET), and other myoinositol phosphate isomers. Sigma. For information call 800-521-8956 or circle 146 on the Reader Service Card.

#### Thermostable DNA Polymerases

A line of thermostable DNA polymerases can fit most polymerase chain reaction (PCR) and reverse-transcriptase-PCR needs. Native Tag DNA Polymerase is a highly purified 94-kD enzyme isolated from Thermus aquaticus. The primary use of this enzyme is to exactly reproduce PCR conditions established prior to availability of recombinant DNA polymerases. BioTaq is a recombinant enzyme obtained by overexpression of the T. aquaticus DNA polymerase gene in Escherichia coli. This is the PCR DNA polymerase of choice for most routine applications. Q-Bio Taq DNA polymerase is a truncated form of the T. aquaticus DNA polymerase, missing the 5' to 3' exonuclease activity. It provides enhanced thermostability and works over a broad range of conditions, facilitating PCR protocol optimization. The low error rate of this enzyme makes it useful for multiplex amplifications and sequencing procedures. The HI-TAQ DNA polymerase is purified from *Thermus brokianus* and is suitable for generating long amplicons (up to 6 kb) without a complex and time-consuming PCR optimization step. This enzyme is suitable for generating PCR products from GC-rich templates and is preferable to native Taq DNA polymerases for sequencing applications. Quantum Biotechnologies. For information call 888-362-5487 or circle 147 on the Reader Service Card.

#### Anti-Monkey Antibodies

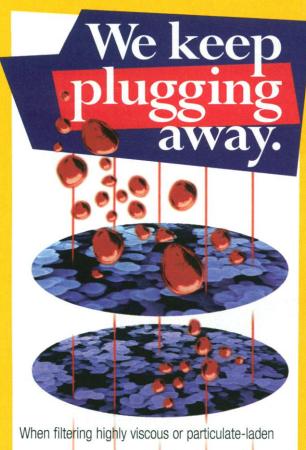
A new line of anti-monkey antibodies is available for scientists studying Old World monkeys. The antibodies recognize immunoglobulins from chimpanzee, Rhesus macaque, cynomolgus monkey, and orangutan. They can be used to identify and measure levels of IgG, IgM, and IgA in monkey serum or other bodily fluids, and to measure antigen-specific antibody response. They are affinity-purified and offered either unlabeled or labeled with fluorescein or horseradish peroxidase. They are suitable for applications that require a high degree of sensitivity and specificity, such as microwell enzyme-linked immunosorbent assay, immunoblotting, immunoprecipitation, and immunofluorescence. Kirkegaard & Perry Laboratories. For information call 800-638-3167 or circle 148 on the Reader Service Card.

#### Literature

Dispensers & Metering Pumps Designed for Original Equipment Manufacturers is a six-page color brochure that highlights the manufacturer's patented pump design, theory of operation, and typical applications. Fluid Metering. For information call 800-223-3388 or circle 149 on the Reader Service Card.

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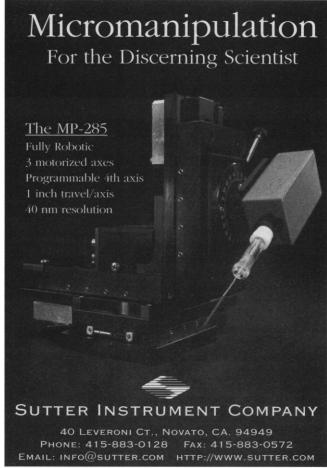
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Circle No. 12 on Readers' Service Card

# Call for Abstracts on Patient Safety Issues

Abstracts are being accepted for the conference on Enhancing Patient Safety and Reducing Errors in Health Care, to be held in Rancho Mirage, CA, on November 8-10, 1998. This multidisciplinary conference is being convened by the American Association for the Advancement of Science (AAAS), the Annenberg Center for Health Sciences, the Joint Commission on Accreditation of Healthcare Organizations, the National Patient Safety Foundation at the AMA, and the US Department of Veterans Affairs.

Abstracts may address safety issues wherever health care is provided, including acute and chronic health care institutions, HMOs, and outpatient surgical providers. Abstracts are welcome from investigators representing a broad spectrum of professional disciplines, including risk assessment, social science, medical informatics, pharmacy, nursing, home health care, and medicine. Abstracts must include: (1) a summary of the presentation, with bibliography, of fewer than 1,000 words, and (2) a resume or biographical sketch of fewer than 100 words. Complete information is available on the Web at http://www.mederrors.org.

The deadline for receipt of abstracts is July 1, 1998. Direct abstracts or inquiries to: Deborah Runkle, AAAS, 1200 New York Ave NW, Washington, DC 20005. E-mail: safety@aaas.org; telephone: (202) 326-6794; fax: (202) 289-4950.



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#### **POSITIONS OPEN**

#### CHAIR DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of Chair of the Department of Pharmacology and Toxicology. We seek an outstanding Medical Scientist with a strong research record, including extramural support, in molecular approaches to the study of pharmacology and toxicology, who will complement, expand, and strengthen existing areas of research in the Department. The candidate will be expected to participate in medical and allied health education and therefore must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties.

The Chair will oversee a department whose active research interests include molecular and transgenic approaches to the investigation of diabetes, cancer, heart disease, signal transduction, receptors, and ion channels. The department offers M.S., Ph.D., and M.D.-Ph.D. degrees, instructs second-year medical students, and provides undergraduate service courses to nursing students, and other allied health and non-majors. Further information is available at website: http://www.und.nodak. edu/depts/pharmatox/home.htm.

Applications are currently being accepted, and the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae; a statement that addresses administrative philosophy, research goals, and teaching interests; and the names and addresses of three references to: Dr. Edward C. Carlson, Professor and Chair of the Department of Anatomy and Cell Biology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine and Health Sciences, University of North Dakota, Box 9037, Grand

Forks, ND 58202-9037.

The University of North Dakota is an Equal Opportunity/
Affirmative Action Institution.

#### FACULTÝ POSITIONS IN PHARMACOLOGY AND TOXICOLOGY DARTMOUTH MEDICAL SCHOOL

The Department seeks candidates for tenure-track AS-SISTANT/ASSOCIATE PROFESSOR-level positions. Candidates should have a Ph.D. and/or M.D. degree(s) and a productive academic record. Preference will be given to individuals with an exciting research program using molecular and cellular biologic techniques relevant to the conduct of translational research. The Department consists of faculty with research expertise in cellular and molecular pharmacology and toxicology (website: http://www.dartmouth.edu/dms/pharmtox/) with strong ties to the Norris Cotton Cancer Center, an NCIfunded comprehensive cancer center. Candidates should submit a curriculum vitae, a statement of research interests and accomplishments, a record of grant support, and names of at least three references. Send applications to: The Chair of the Search Committee, Michael B. Sporn, M.D., Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755-3835.

Dartmouth is an Equal Opportunity and Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.

Tennessee: FACULTY POSITIONS. The Division of Hematology/Oncology at the Vanderbilt University Medical Center has TENURE-TRACK or TENURED faculty research positions available immediately for outstanding M.D. or M.D.-Ph.D. candidates doing research in the following areas: vascular or hematopoietic stem cell biology; molecular biology and genetics of cancer, especially lung, gastrointestinal/gastrourinary, or breast; cancer immunology and immunotherapy; cell cycle regulation; population genetics in cancer. Successful candidates will be early or mid-career researchers with demonstrated potential to make outstanding contributions to basic and/or applied hematology or cancer research in these areas. Excellent laboratory facilities and start-up packages are available. Applicants should send a curriculum vitae, a statement of research interests, and three letters of reference to: David Carbone, M.D., Ph.D., Chairman, VCC Search Committee, Division of Hematology/Oncology, Department of Medicine, Vanderbilt University School of Medicine, 648 Medical Research Building II, Nashville, TN 37232-6838. An Equal Opportunity/Affirmative Action Employer.

#### **POSITIONS OPEN**

#### FACULTY POSITION MEDICINAL CHEMISTRY/PHARMACOLOGY OF ANTICANCÉR DRUGS

The University of Southern California Department of Pharmaceutical Sciences and Norris Comprehensive Cancer Center are seeking Investigators with a preferred background in medicinal chemistry or biochemistry for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR position. The successful candidate is expected to develop an outstanding independent research program to complement existing strengths in molecular modeling, cell biology, immunology, molecular pharmacology, and pharmacokinetics. Applicants conducting research in anticancer therapeutics will be given the highest consideration, and an interest in translational research through drug synthesis and development would be advantageous. The Cancer Center has an active clinical anticancer drug development program and extensive clinical trial support facilities for translational research. A competitive start-up package and salary commensurate with experience are offered. The position also provides the opportunity for teaching at the graduate and professional levels in the School of Pharmacy.

Candidates should send the names of three refer-

ences, a curriculum vitae, and a summary of research accomplishments and future goals to: Vincent H. L. Lee, Ph.D., Department of Pharmaceutical Sciences, School of Pharmacy, University of Southern California, 1985 Zonal Avenue, Los Angeles, CA 90033. Website: http://www.usc.edu/hsc/pharmacy/pharmsci/. Evaluation of applications will begin on July 15, 1998, and continue until the position is filled. USC is an Equal Opportunity/Affirmative Action Employer.

#### TENURE-TRACK ASSISTANT PROFESSOR

The Department of Physiology, College of Medicine, invites applications for a full-time tenure-track Assistant Professor position. The successful candidate will be a MAMMALIAN PHYSIOLOGIST who will develop an extramurally funded independent research program in the area of vascular biology and/or stroke. Initial support will be provided by the Howard Hughes Medical Research Resources Program for Medical Schools. Applicants must have a Ph.D., M.D., or equivalent, and postdoctoral experience in cellular/molecular approaches to physiological problems. The primary appointment will be in the Department of Physiology, with extensive interaction encouraged across departments of the Interdisciplinary Graduate Program in Biomedical Sciences at the Health Science Center. The candidate may complement current departmental and college strengths in the areas of hypertension, signal transduction, fetal/maternal physiology, neuroendocrinology, membrane transport and ion channels, developmental genetics, and other interests described at our website: http://www.med.ufl.edu/phys/index.html. Responsibilities will include participation in departmental teaching and educational programs. Submit a curriculum vitae, including a statement of research plans, and have three letters of reference sent to: Dr. Bruce R. Stevens, Search Committee Chair, Department of Physiology, College of Medicine, University of Florida, P.O. Box 100274, Gainesville, FL 32610-0274. Salary is negotiable. Application deadline is June 15, 1998, and anticipated start date is January 1, 1999. Equal Employment Opportunity/Affirmative Action Employer.

#### UNIVERSITY OF FLORIDA

Seeks to fill the MARCIA WHITNEY SCHOTT EMINENT SCHOLAR CHAIR and CHIEF of the Division of Clinical Immunology, Rheumatology, and Allergy in the Department of Medicine. A Physician Investigator with M.D. degree, Board certification in internal medicine and rheumatology, and a well-established research program who can direct the research training grant in rheumatology is being sought. Existing program is well balanced in respect to providing excellent clinical care and performing both basic and clinical research. Qualified candidates should possess the abilities to lead and develop programs in research, education, and health care delivery. This is a tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline: July 1, 1998. Anticipated starting date: January 1, 1999. Please submit curriculum vitae and other information to: Dr. Edward R. Block, Research Service (151), VA Medical Center, Gainesville, FL 32608-1197. An Affirmative Action/Equal Opportunity Employer.



SURROMED, Inc., located in the San Francisco Bay Area, is a start-up biotechnology company founded with the goal of reducing the cost and improving the outcome of clinical trials through analysis of

cellular and soluble factors in blood. We currently have opportunities for highly motivated scientists who can thrive in a start-up environment.

#### Scientist (Immunology/Cytokines)

Qualifications: Ph.D. in immunology, cell biology, or related field. Postdoctoral experience preferred. The successful candidate will have made an impact on the field of cytokine function and interrelationships as evidenced by scientific publications. Lab experience should include development and implementation of immunoassays, cell-based assays, and flow cytometry protocols. Job description: This key scientist will help develop new strategies for detection of soluble and cell-based cytokines and other factors in blood. He/she will lead development and implementation of an important set of cellular and soluble factor assays to be used in clinical studies.

#### Scientist (Infectious Disease)

Qualifications: Ph.D. in immunology, cell biology, or related field. Postdoctoral experience preferred. The successful candidate will have established a position in the field of human infectious disease and immune response as evidenced by scientific publications. Lab experience should include the development and implementation of immunoassays, cell-based assays, and flow cytometry protocols.

<u>Job description</u>: This key scientist will help develop new strategies for evaluation of soluble factors, cell populations, and cell function from blood samples that relate to infectious disease and vaccines. He/she will lead development and implementation of an important set of cellular and soluble factor assays to be used in clinical studies.

#### Scientist (Protein Chemist)

Qualifications: M.S. or Ph.D. in biochemistry, chemistry, or related field and 2–5 years experience preferred. The successful candidate will have demonstrated success in the chemical modification of proteins and an understanding of fluorescence principles. Laboratory experience should include protein purification and characterization and organic chemistry. Experience with fluorochrome-antibody conjugates and immunoassays is a plus.

<u>Job description:</u> This key scientist will investigate antibody conjugates with new fluorochromes. He/she will develop and implement new and improved protocols to be used by self and others.

Please mail or fax curriculum vitae and references to: SURROMED, INC, Attention: Human Resources, 1060 East Meadow Circle, Palo Alto, CA 94303. Fax: 650-855-9079. Email: resume@surromed.com.

#### POSTDOCTORAL FELLOWSHIPS

The Blood Center, an internationally recognized leader in molecular hematology, transplantation immunology, vascular biology, and transfusion medicine research, is seeking outstanding candidates to fill postdoctoral positions at its Blood Research Institute. These positions will be funded by an NIH Training Grant. Therefore, qualified applicants must be U.S. citizens or permanent residents, and cannot have received more than two years of previous support from an NIH Training Grant.

Located adjacent to the Medical College of Wisconsin, The Blood Research Institute provides state-of-the-art facilities, and offers an excellent environment for scientific interaction and interdisciplinary collaboration. Opportunities are periodically available with Blood Center scientists working in the following areas:

Richard H. Aster, M.D.-Pathogenesis of drug-induced blood dyscrasias.

**David D. Eckels, Ph.D.**-Immunobiology of hepatitis

**Jack Gorski, Ph.D.**—Structure/function analysis of HLA-DR; T cell repertoires.

Robert R. Montgomery, M.D.—Molecular and cellular biology of von Willebrand factor.

Peter J. Newman, Ph.D.—Cell adhesion and signaling in vascular cells.

Peter J. Sims, M.D., Ph.D.-Immune rejection and dysfunction of platelets and endothelium.

Therese Wiedmer, Ph.D.—Regulation of membrane phospholipid asymmetry.

Hartmut Weiler, Ph.D.-Vascular biology/thrombosis

Applicants should send curriculum vitae, a brief description of current research, and the names and telephone numbers of three references to:

Director of Research, Blood Research Institute, 638 N. 18th Street, The Blood Center of Southeastern Wisconsin, Inc., Milwaukee, WI 53233.

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Special Announcement
Research Grants Available to Support

# Development of Mammalian Models of Ataxia-Telangiectasia

Ataxia-Telangiectasia (A-T) is a childhood genetic disorder characterized by neurodegeneration, immune deficiencies and a strikingly high predisposition to certain types of lymphomas and leukemias. The gene that causes A-T in humans, known as "ATM," has also been linked to increased incidence of cancer in heterozygotes.

A-T knockout mouse colonies have already been successfully established at several research institutions. Now, the A-T Children's Project is interested in funding the development of genetic models of A-T in other mammals, particularly rats. Other animal models may provide valuable insights into the pathology of the disease and serve as useful points of comparison with regard to results obtained from mouse models.

Grants will be awarded to academic, government and corporate researchers for six-month to two-year projects to be funded up to a maximum total direct cost of \$50,000 per year. No administrative, overhead or fixed costs will be supported.

The deadline for submitting proposals is July 1, 1998, and decisions will be made by September 1. Initial funds will be distributed by September 15. Interested researchers should request "A-T Animal Model Proposal Guidelines" from the A-T Children's Project.



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## MAYO FOUNDATION Postdoctoral Positions



Biochemists and molecular biologists with a Ph.D. are invited to apply for postdoctoral positions at Mayo Foundation in Rochester, Minnesota, where a newly equipped, 1,200 sq. ft. laboratory is being established in the Department of Biochemistry and Molecular Biology. Research is supported by extensive core facilities, including DNA and protein sequencing, protein purification, oligo synthesis, FACScan, confocal laser microscopy and transgenic mouse falcilities. Funding sufficient for an initial group of 4–5 persons has been provided by Mayo Foundation. Salaries or supplements to scholarships can be provided. Positions are available beginning September 1998.

The main focus of the laboratory is signaling related to the activation of ETS transcription factors. Specific projects include (see also: *Mol. Cell. Biol.* 16:1550–1556, 1996; *Nature* 383:22–23, 1996; *EMBO J.* 16:1620–1627, 1997):

- 1. Signaling pathways targeting the ETS transcription factors ER81.
- 2. Identification of ER81 target genes and interaction partners.
- 3. Transgenic mouse model for Ewing's sarcoma (EWS-ER81 fusion).
- 4. Analysis of the coactivators and acetyltransferases CBP/p300.
- 5. Identification and characterization of mammalian histidine kinases.

If you want to join a highly motivated, team-oriented research group, please contact me or forward your curriculum vitae and three letters of recommendation to my present work address.

Ralf Janknecht, Ph.D.
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# AND THEIR NEIGHBORS AREN'T NEARLY AS INTERESTING.

Immunex Corporation, a biopharmaceutical company focused on research, development, and marketing of ground-breaking treatments in cancer and immune disorders, is seeking qualified candidates for the following positions in the Process Sciences Department.

#### Sr. Staff Scientist

Provides leadership in a laboratory setting while directing the development of purification processes. Responsible for directing large-scale downstream purification development for clinically relevant proteins and transfer of these processes to clinical manufacturing. Interface with manufacturing and cell culture personnel in designing and evaluating processes of cell culture harvest and transfer to purification processes. Will assume a major role in the design of a new process development facility including specification of equipment, integration of data acquisition/ analysis systems and implementation of novel processing technology. Requires a Ph.D. and 7+ years biotech industry process development experience. Knowledge of protein purification, design of clinical production purification processes, large scale chromotography, micro/ultrafiltration, facilities/equipment design and clinical GMP production are preferred. Job Code: 97-1799

#### **Process Development Engineer**

Responsible for optimization and scale-up of cell culture processes and tangential flow filtration operations. Will evaluate new equipment and technology. Will provide input into facility design and provide start-up support for future process development and manufacturing facilities. Requires a BS Engineering degree with 3-5 years experience. Must have a process engineering or process development background with a strong mechanical orientation and direct hands-on experience. Knowledge of large scale downstream processing and the interface between upstream and downstream processing is highly desirable. **Job Code: 98-0407** 

#### Sr. Process Development Engineer

Responsible for supporting late clinical or commercial stage manufacturing processes in several key areas. Including process data monitoring/analysis, process validation, trouble-shooting large scale manufacturing processes and participating in raw material qualifications. Will participate in internal and external multi-disciplinary project teams. Requires a Ph.D. in relevant engineering discipline or BS/MS degree with 5+ years experience. Familiarity with manufacturing environment and GMPs a plus. **Job Code: 98-0371** 

#### **Staff Scientist**

Anticipates manufacturing problems related to the science of cell separations, filtration, chromatography and storing of the Enbrel product. Will define resources and equipment needed to address Enbrel issues and provide insight into the science of purification. Responsible for designing and directing ongoing experimental large scale protein purification methodologies, process monitoring, statistical process controls, computer database management and involvement in project teams. Requires a Ph.D. with 5-7 years experience developing and implementing clinical manufacturing protein purification processes. Must have demonstrated understanding of GMP operations and optimizing production processes. Must be skilled in computer technology to design and maintain databases and generate reports. Excellent interpersonal skills are essential. Job Code: 98-0793

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# POSTDOCTORAL POSITION IN IMMUNOLOGY

#### ST. JUDE CHILDREN'S RESEARCH HOSPITAL

St. Jude Children's Research Hospital offers an excellent research environment with state-of-the-art facilities. The Immunology Department, chaired by Dr. Peter Doherty, consists of eight faculty and 50 support staff. A position is available immediately in Dr. Dario Vignali's laboratory for an enthusiastic, hard-working individual to work in one of the following areas:

- T cell receptor recognition and immunogenicity (Immunity 7:387, 1997)
- · TCR:CD3 structure, assembly and signal transduction

Qualified candidate should have a PhD and/or MD, a solid understanding of basic immunology, and practical experience in molecular biology, cellular immunology or biochemistry.

For additional information, please visit our web site at:

www.stjude.org



St. Jude Children's Research Hospital

ALSAC - Danny Thomas, Founder

Please send a CV with the names of three references (postal and E-mail addresses, telephone and FAX numbers) and an outline of your past accomplishments and future career aspirations to:

Dr. Dario Vignali Department of Immunology St. Jude Children's Research Hospital 332 N. Lauderdale Memphis, TN 38105 Tel: 901-495-2332 FAX: 901-495-3107

Affirmative Action/ Equal Opportunity Employer

#### DNA REPAIR/ IMMUNOSENESCENCE

Two Postdoctoral Positions available July 1998 to study the role of DNA repair during lymphocyte development and aging. Other interests include the regulation of chromosomal DNA end structure and its relationship to replicative senescence. Molecular approaches including targeted gene inactivation and transgenic mice are being used. Candidates must have a Ph.D. and/or M.D., and a strong background in molecular biology and immunology. Send CV and names of three references to:

Dr. Andre Nussenzweig, Experimental Immunology Branch, National Institutes of Health, NCI, Building 10,

Rm 5A06 10 Center Drive MSC 1360 Bethesda, MD 20892-1360

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## MARKETING SCIENTISTS



IGEN International, Inc's ORIGEN technology (electrochemilumine-scence) has been recognized by bio/pharma companies as a superior detection method. IGEN is presently developing next generation instrumentation to meet the needs of higher throughput laboratories, including discovery laboratories. Scientists with expertise in the development of assays, particularly therapeutic targets for screening, are sought to develop proprietary assays at our Gaithersburg, MD facility. Experience in identification, performance, and publication of assays relevant to the life science research market is required, as is significant contact with clients and analysis and preparation of method protocols. Positions may also support GLP studies. Candidates must be able to travel; this work may include feasibility studies at client sites and/or presentation of the technology to potential customers.

If you are looking for an opportunity to expand a business, possess experience in assay development and have a desire to support marketing of the technology, this position is for you! A Ph.D. in a scientific discipline with a minimum of 2 years post-doctoral bio/pharma experience is required.

IGEN International, Inc. is an equal opportunity employer and offers an excellent salary and comprehensive benefits package. Please send resume to: IGEN International,

Inc., 16020 Industrial Drive, Gaithersburg, MD 20877, Attn: HR/JH or fax to 301/947-6998.



#### Opportunities for NIH-Funded Postdoctoral Training in Cell Biology at PENN

Positions available in the following research areas:

- Contribution of oncoproteins (Myc) and tumor suppressors (p53) to endothelial cell growth, angiogenesis, and tumor vascularization with Dr. Andrei Tikhonenko, Ph.D.
- Role of Wnt signaling in the regulation of cell identity during early Xenopus development - with Dr. Jean-Pierre Saint-Jeannet, Ph.D.
- Identification of mechanisms underlying skeletogenesis and blood cell differentiation through use of transgenic mice with Dr. Olena Jacenko, Ph.D.
- Molecular mechanism for contractile dysfunction in smooth muscle and contractile protein function by gene knock-out studies with Dr. Sam Chacko, D.V.M., Ph.D.
- Regulation of T helper cell development and death in experimental leishmaniasis with Dr. Phillip Scott, Ph.D.
- Molecular mechanisms of microtubule-based transport;
   cell biology of the cytoskeleton in neurodegenerative
   disease with Dr. Erika Holzbaur, Ph.D.



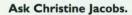
Please mail or fax your *curriculum vitae*, a brief statement of research interests, and names of three references to:

The Principal Investigator(s) c/o Anita Kolsky University of Pennsylvania 3800 Spruce Street, Room 310 Philadelphia, PA 19104-6051 fax (215) 898-0719

no one is immune

to being

first.



As the 1997 prize winner, she discovered that being published in Science, winning US\$20,000, a free trip to Stockholm and appearing in this ad can be quite a shot in the arm.

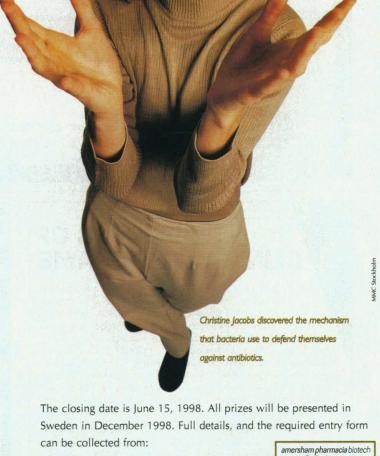
If you are a recent Ph.D. graduate in the field of molecular biology, you are eligible to enter the 1998 Amersham Pharmacia Biotech & Science Prize for Young Scientists. Just send us an essay based on your graduate thesis, and we'll take it from there.

#### What's in it for you.

The grand prize is US\$20,000 with an additional seven runners-up winning US\$5,000 and being announced in *Science*. The winning essay will be published in full. The award ceremony will be held in Sweden in early December. The Grand Prize winner will feature in next year's Amersham Pharmacia Biotech & *Science* Prize for Young Scientists advertisement. As an additional bonus, all winners and finalists receive a free subscription to *Science*.

#### Call for entries.

To be eligible, you must have received your Ph.D. between January I and December 31, 1997. Your thesis has to be in the field of molecular biology and submitted to us in the form of a 1,000-word essay which describes your work and places it in perspective with regard to the field of molecular biology. The essay can be written in English, French, German, Spanish, Japanese or Chinese (Mandarin).



- \* the administrator of the award committee at the address below
- \* from the Science homepage at http://www.aaas.org/science/prize.htm
- \* from the Amersham Pharmacia Biotech homepage at http://www.apbiotech.com



Enquiries in Europe should be addressed to: Science International Thomas House 14 George IV Street Cambridge CB2 1HH UK
Tel: +44 1223 302067. Fax: +44 1223 302 068

Enquiries in the United States and other regions should be addressed to: Science 1200 New York Avenue, N.W., Room #1053 Washington, DC 20005 USA Tel: +1 202 236 6553. Fax: +1 202 289 7562

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#### SENIOR RESEARCH SCIENTIST

We are currently seeking a Senior Research Scientist to perform purification and characterization of native and recombinant proteins and further evaluate those proteins as vaccine candidates for bacterial diseases.

To qualify, you should have a Ph.D. in Biochemistry and 4 years of post-doctoral or equivalent industrial experience. You must also have extensive experience in state of the art purification and protein characterization techniques. Experience in proteomic technologies or microbial pathogenesis is a plus.

At Wyeth-Lederle you'll enjoy a professional atmosphere and the kind of salary and benefits package you would expect from an industry leader. Please send your resume to: Human Resources Department, Wyeth-Lederle Vaccines and Pediatrics, 211 Bailey Road, West Henrietta, NY 14586-9728. An Equal Opportunity Employer.



Wyeth-Lederle Vaccines and Pediatrics
Protecting Families Through Immunization ®

#### NYU MEDICAL CENTER MANAGER AND OPERATOR DNA SEQUENCING AND SYNTHESIS UNIT

NYU Medical Center is seeking a technically experienced individual to operate and manage its core DNA sequencing facility and to supervise the facility's staff. This high-volume facility, which is also a shared resource of the Kaplan Comprehensive Cancer Center, serves many faculty investigators with approximately 15,000 oligonucleotide synthesis and DNA sequencing determinations annually. The candidate should have expertise in the use of ABI sequencing equipment, technical trouble shooting skills, and the ability to organize a highly efficient sequencing service. A Bachelor's degree in science is required; a graduate degree is preferred. The individual will report to the Director of the Facility.

The position offers a competitive salary and fringe benefits package.

Send résumé, a brief summary of recent experience, and salary requirements to Dr. Joel Belasco, Skirball Institute, NYU Medical Center, 550 First Avenue, New York, NY 10016.

# DIRECTOR OF CLINICAL PROGRAMS

Vysis, Inc. is driving the development of disease management with molecular techniques through the innovation and commercialization of genomic assessment products. We have an excellent opportunity for a Director of Clinical Programs to manage the clinical program staff, budget, protocol design, clinical trials, and contracts. You will be responsible for Good Clinical Practices (GCP), clinical trial reports and FDA submissions. You will strategically interact and plan with R&D, Sales & Marketing, Operations/Quality, and Finance on new products and platforms for in vitro diagnostic products. Strong biostatistical skills are necessary, as are excellent communication, negotiation and planning skills.

To qualify, you must have either a Bachelor's/Master's degree and 15 years experience, or preferably, a Ph.D. or M.D. with 7 to 10 years of experience in the molecular biology or genetics field. We require at least 5 years experience in Clinical Programs for in vitro diagnostic (IVD) products, and a proven track record in FDA submission clearances and/or approvals.

In addition to a key management role with a rapidly growing company, you will enjoy an excellent salary and benefits package. Please submit your resume and salary history to:



Human Resources Director Vysis, Inc. 3100 Woodcreek Drive Downers Grove, IL 60515 Fax: 630-271-7008 www.vysis.com

EOE MF/H/V

## POSTDOCTORAL RESEARCH POSITION ROLE OF NEF IN HIV PATHOGENESIS

An immediate opening is available for a recently graduated postdoctoral fellow to conduct research in the area of HIV pathogenesis; specifically, the analysis of Nef function. A strong background in molecular and cell biology substantiated by peer reviewed publications is essential. Knowledge in cell signaling pathways, protein purification, and/or retrovirology would be beneficial.

For consideration, please submit a current curriculum vitae, a list of publications, and the names and addresses of three references to:



Dr. J. Victor Garcia
Associate Member
Department of
Virology & Molecular
Biology
St. Jude Children's
Research Hospital
332 N. Lauderdale
Street
Memphis, TN
38105-2794

Please visit our web site: www.stjude.org

Affirmative Action/Equal
Opportunity Employer



# Irene Diamond Professorships in Immunology

## NEW YORK UNIVERSITY SCHOOL OF MEDICINE

Two tenured positions at the Associate Professor/Professor level are available as part of a new initiative to further enhance research in immunology at New York University School of Medicine. Research areas of particular interest include cell biology of antigen presentation, leukocyte trafficking and lymphatic organ development, regulation of immune responses to pathogens, signal transduction in lymphocyte cell cycle progression and apoptosis, and the biology of dendritic cells. The successful candidates, presently located outside of New York City and with proven records of accomplishments, are expected to maintain extramurallyfunded research and participate in building a comprehensive training program in immunology for graduate students and post-doctoral fellows. Laboratories will be located in the Skirball Institute of Biomolecular Medicine, with an excellent start-up package provided, in part, by the Irene Diamond Professorships in Immunology.

Applicants should submit a CV, statement of research interests, and names of three references to: Dan Littman, M.D., Ph.D., Chair, Immunology Search Committee, c/o Rise Schwab, New York University School of Medicine, 550 First Avenue, Room GH - SCI - 81, New York, NY 10016. Application materials must be received by August 15, 1998.

#### WHERE EXCELLENCE IS A WAY OF LIFE.

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# A new global leader in pharmaceuticals is born.

Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering and developing innovative prescription drugs that treat a wide variety of diseases and conditions — helping millions of people live longer, healthier lives. The following positions are available in the Novartis Transplantation Research Department, located in Summit, NJ.

#### Lab Head Position #IDT01

This research position requires an experienced molecular biologist to conduct both independent and team-oriented research focused on the development of recombinant biologicals, including antibody-fusion proteins, and on the development of appropriate assays and models. Expertise in protein chemistry and cellular or transplantation immunology is especially valued.

The successful candidate will have a proven aptitude for innovative and productive research as demonstrated by their publication record as well as strong communication skills.

#### Postdoctoral Fellow Position #IDT02

We are seeking an immunologist to perform molecular and cellular immunology studies, including the characterization of dendritic cell populations in experimental mice. Experience in in-vitro immunological methods and in the handling of experimental animals, as well as a PhD in Life Sciences, is required.

You will enjoy an attractive salary, comprehensive benfits and high visibility in a dynamic organization. You will find them all, and much more, at Novartis. For consideration, please send your resume, and salary history/requirements, to: Staffing Center, Dept. GC4471, Novartis Pharmaceuticals Corporation, Building G214, Position #\_\_\_\_\_, 556 Morris Ave., Summit, NJ 07901-1398. No agencies or phone calls, please. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our company. Unfortunately, we can only respond to qualified candidates.



Working at the molecular level to conquer, treat, and prevent debilitating diseases.

## DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH

At Schering-Plough Research Institute, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of exploratory pharmaceutical discovery, become part of an advanced multidisciplinary research group.

## **Assistant Scientist** Biological Research/Oncology

We are seeking a talented scientist with an MS degree and 0-2 years of experience in recombinant DNA techniques and various biochemical techniques such as protein purification, enzyme assays, etc. Background with tissue culture techniques is preferred. Ability to interact with diverse groups of people in a team-oriented environment is essential. Strong communication and writing skills are also required.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For confidential consideration, we invite you to apply on-line at <a href="http://www.sp-research.com">http://www.sp-research.com</a> or send a scannable resume and cover letter, original copy only, referencing Dept. CK-DMS, to: Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



Using Science for Human Advantage



#### **OPPORTUNITIES**

#### Research Assistants Postdoctoral Fellows Junior Scientists

Cytoclonal Pharmaceutics is a publicly traded Biopharmaceutical Company developing products for Treatment and Diagnosis of Cancer and Infectious Disease. Programs include: Paclitaxel (Taxol®) production by Fungal fermentation and Paclitaxel treatment of Polycystic Kidney Disease; Human Gene Discovery using Patented Retroselection™ for disease-related genes such as the Company's patented LCG gene for lung cancer; a Mycobacteria Vaccine Delivery system; and a proprietary Antisense program.

Seeking Outstanding Candidates:

Candidates for Research Assistant should have B.S. or preferably M.S. degree in Chemistry or Biology/Chemistry.

Candidate for Postdoctoral Fellow should have Ph.D's in Biochemistry or Molecular Biology.

Candidates for Junior Scientist should have Ph.D's in Biochemistry or Molecular Biology and two years experience as a Postdoctoral Fellow

Preference is for candidates with experience in the activities listed above.

Please send applications and letters of recommendation to Human Resources, 900 Harry Hines Blvd., Suite 330, Dallas, TX 75235.

NASDAQ: CYPH,CYPHW, CYPHZ

® Bristol-Myers Squibb

# THROMBOSIS SCIENTIST

SmithKline Beecham is at the forefront of cardiovascular research and innovation in drug discovery. Currently we have an exciting opportunity available for an experienced scientist to establish research in thrombosis in view of discovery of novel anti-thrombotic agents. The incumbent will pursue drug discovery efforts at the molecular, biochemical, in vitro and in vivo levels. The position has opportunity for supervision of several staff associates devoted to the thrombosis program.

The selected individual must have a PhD or MD/PhD in biological sciences (such as molecular biology, biochemistry, physiology and pharmacology) with 3-5 years of experience in thrombosis research. In particular, experience in biochemistry of coagulation factors, relevant assays, kinetics and protein biochemistry are of significant advantage. Expertise in *in vivo* models of thrombosis as well as pharmaceutical drug discovery are desired. This position requires excellent oral and written communication ability, including computer skills for laboratory and internet. Of particular importance is a significant record of publications in high-quality, peer-reviewed journals, presentations at professional symposia and/or grant support, as well as proven supervisory skills.

SmithKline Beecham offers a competitive compensation/benefits package and a stimulating work environment in which to grow and excel. For confidential consideration, please send a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H70506A, P.O. Box 2645, Bala Cynwyd, PA 19004.

**Indicating Job Code is essential.** For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.



**Pharmaceuticals** 

Challenging the natural limits.

At Pfizer, we entrust the enormous task of discovering treatments and cures for major diseases to some of the world's most gifted scientific talents. We challenge our scientists to practice leading-edge science in our collaborative, multidisciplinary scientific community. Our Fortune 100 company maintains a commitment to R&D that's unrivaled in our industry, as we've invested a total of \$9.4 billion since 1990 and expect a 1998 R&D investment of approximately \$2 billion. The only other investment that comes close, is the one we make in our people.

Here, we realize that to attract the best, we must offer the best. That's why we provide a collegial environment that lets you create new professional opportunities, advance your education and balance your work and personal life, all while making the fullest contribution possible to the drug development process at Pfizer. If you've been searching for the chance to shape the future of the pharmaceutical industry, join us at Pfizer.

# The Search For Cures Begins With A Search For The Best.

Ph.D. Scientist Inflammation Biology

We are seeking a scientist to join an established team focused on the discovery of novel therapies for arthritis and other inflammatory conditions. The successful candidate should be familiar with inflammatory biology and inflammatory diseases and will be expected to initiate novel discovery approaches and develop methods for evaluation of compounds in vitro and in vivo. A Ph.D. in Pharmacology, Immunology, Physiology or related discipline, plus at least 2 years of post-doctoral research experience and experience in the use of in vivo models required. Experience in evaluation of drug candidates is preferred. In addition, we expect supervisory skills to be well developed.

BS/MS Scientist
Allergy & Respiratory Biology

We have an opening for a qualified candidate who will contribute to in vivo pharmacology effort within the Allergy and Respiratory group. Duties will include model development, hypothesis testing, and performing assays. Minimum requirements include a BS or equivalent in Biological Sciences, and experience with in vivo pharmacology, physiology, or a related discipline. Experience with cell infiltration models, monitoring or physiological parameters and measurement of cytokines and mediators in biological fluids is also sought.

Job Code: 2634

In addition to providing competitive salaries, we offer an excellent compensation package, comprehensive flexible benefits and generous relocation support. For immediate consideration, please forward your resume to: **Employee Resources, Pfizer Inc, Central Research Division, Job Code #\_\_\_\_, Eastern Point Road, Groton, CT 06340.** For more information on career opportunities available at Pfizer, please visit our Web site: http://www.pfizer.com. We are an equal opportunity employer dedicated to diversity M/F/D/V.



We're part of the cure

#### SECTION HEAD, PAEDIATRIC BONE MARROW TRANSPLANTATION

# leadership in research, teaching & care

The Hospital for Sick Children is a world renowned leader in health care, research and teaching. The divisions of Haematology / Oncology and Immunology / Allergy enjoy a reputation for leadership in clinical care, education, and innovative research.

Additional information is available at: www.utoronto.ca/paedadm/paedadm2.htm. and www.sickkids.on.ca/

A health care, teaching, and research centre dedicated exclusively to children; affiliated with the University of Toronto. The hospital performs 70 bone marrow transplantations per year and has established widely recognized programmes in benign haematology, haemostasis-thrombosis, oncology, immunology, and immunodeficiency. The department's Fellowship Training Programmes are accredited by the Royal College of Physicians and Surgeons of Canada. Independent and collaborative clinical and basic science research is performed by members of both divisions and scientists within the hospital's research institute.

This opportunity calls for a specialist with a strong background in academic haematology/oncology/ immunology with an established bone marrow transplant research programme and demonstrated ability to promote bench to bedside research in an academic health sciences centre. The Section Head, appointed at either an Associate or Full Professor level, will have demonstrated exemplary administrative and interpersonal skills and will provide patient care and research leadership. Certification, or eligibility for certification, in Paediatrics and Haematology/Oncology or Immunology by the Royal College of Physicians and Surgeons of Canada is required.

Interested individuals are invited to submit a letter application, curriculum vitae, and the names and addresses of three referees, by July 31, 1998, to: Dr. Ron Laxer, Associate Chair of Paediatrics, University of Toronto, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario M5G 1X8 Canada. Telephone: (416) 813-6122 Fax: (416) 813-7479. The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed firstly to Canadian citizens and permanent residents.



University of Toronto





#### Tenure-Track Faculty Positions in Genetics and Developmental Biology University of Connecticut School of Medicine

Mouse Developmental Genetics

The newly created Department of Genetics and Developmental Biology at the University of Connecticut School of Medicine is seeking highly qualified individuals with an outstanding background in mouse developmental genetics and biology and with expertise in transgenic and gene targeting technologies. Areas of interest include, but are not limited to, transcriptional regulation, signal transduction, limb morphogenesis, skeletal development, and mouse models of human neurological disorders.

Applications are now invited for two such positions at the Assistant, Associate, or Full Professor level. Four additional positions are available for individuals with an interest in developmental genetics of a variety of systems. Departmental faculty will enjoy superb resources including generous start-up funds and space in a new research building that will be available for occupancy in December 1998. Part of the new construction is designed specifically as a barrier facility with a capacity for 18–20,000 mice. An additional 10–15,000 mice can be housed in the existing animal tower. There are state-of-the-art core facilities for mouse transgenics and ES cell manipulation, nucleic acid sequencing, flow cytometry, confocal microscopy, and fluorescence imaging. Faculty will be expected to establish independent and innovative research programs that will attract extramural funding and to actively contribute to a rich scientific environment.

Candidates should apply by submitting a curriculum vitae, five selected publications, and the names of three references by September 30, 1998, to:

Marc Lalande, Ph.D., Professor and Chairman, Department of Genetics and Developmental Biology, The University of Connecticut Health Center, School of Medicine, 263 Farmington Avenue, Farmington, CT 06030-1920.

An Equal Opportunity/Affirmative Action Employer.

## POSTDOCTORAL RESEARCH FELLOWSHIP POSITIONS



# REPRODUCTIVE SCIENCES PROGRAM University of Michigan

Visit Our Website To Obtain A List Of Affiliated Faculty Interested In Postdoctoral Research Fellows at:

http:www.umich.edu/~rspwww/

The Reproductive Sciences Program at the University of Michigan currently has postdoctoral research fellow positions available on its NIH/NICHD-funded training grant (NRSA), "Training Program in Reproductive Endocrinology." To be considered for open postdoctoral positions, applicants must arrange a mentorship with an RSP-affiliated faculty member, must be a citizen or noncitizen national of the United States, or must have been lawfully admitted for permanent residence. Individuals on temporary or student visas are not eligible. For additional information please contact:

Cheri Thompson, 300 N. Ingalls Building, Room 1101, Ann Arbor, MI 48109-0404. Phone: 734-763-5030. E-mail: cheript@umich.edu.

# PROGRAM MANAGER, DIVISION DEPUTY MANAGER

The Life Sciences Division at the Lawrence Berkeley National Laboratory has an opening for a Program Manager, Division Deputy Director with a strong background in a biological discipline and an understanding of research in the fields of molecular, cell and structural biology, biochemistry, genomics, microbiology or medical imaging. You will assist the Division Director in formulating key policies and addressing a broad range of management issues affecting the division's scientific programs; serve as liaison with government funding agencies and other research institutions on a variety of programmatic issues; and play a key role in establishing partnerships with the University of California and other national laboratories. You will also interact with the office of the Laboratory Directorate to develop strategies for scientific growth involving large multi-disciplinary and/or multi-organizational programs.

Requires a broad scientific vision and leadership capabilities, demonstrated outstanding organizational and managerial skills, and substantial knowledge of funding mechanisms and program development in government, industry and/or academia. Also requires extensive relevant experience including project planning and strategic development, strong communication and negotiation skills, Ph.D. or equivalent in the biological sciences and experience with program scheduling and budgeting. Please e-mail resume with cover letter and Job# LSD5766/JSCI to: employment@LBL.gov or fax to: (510) 486-5870 or mail to: Ernest Orlando Lawrence Berkeley National Laboratory, Staffing Office, Job# LSD5766/JSCI, One Cyclotron Rd., MS 938A, Berkeley, CA 94720. You may see the full position description and qualification requirements on our LBNL web site: http://www.lbl.gov/CJO. Berkeley Lab is an equal opportunity employer committed to the development of a diverse workforce.



#### **EUROPEAN OPPORTUNITIES**

# Director Global Climate Observing System (GCOS)

The World Meteorological Organization (WMO) invites applications for the post of Director of the Global Climate Observing System (GCOS) Secretariat. The incumbent will develop, implement, and manage the GCOS programme following the directives of the Steering Group Chair, and subject to the overall policy directives of the Secretary-General of WMO acting on behalf of the international sponsors (United Nations Environment Programme, Intergovernmental Oceanographic Commission of UNESCO, and International Council of Scientific Unions). The objective of the programme is to ensure the provision of climate-related information on seasonal to interannual time scales (e.g., El Niño) and for secular climate change.

Applicants should have advanced degrees (Ph.D.) or equivalent in scientific/technical areas with specialization in geosciences. Extensive professional experience (>10 years) in planning and management of large scientific/technical projects, preferably with international components. Excellent knowledge of English and/or French required.

Personal History Forms, as well as additional information concerning the position, salary, and benefits, can be obtained from the

WORLD METEOROLOGICAL ORGANIZATION, C.P. 2300, 1211 Geneva 2, Switzerland, Telefax No. (+41-22) 734 23 26.

#### Molecular Biology/ Protein Expression

B.S./M.S.-level positions exist for motivated individuals with demonstrated expertise in cloning and expressing proteins to support drug discovery efforts. Successful candidates will have experience in constructing and screening cDNA libraries, expression cloning, RT-PCR, or developing other methods to identify and clone novel genes. We also seek molecular biologists skilled in the development of ligand-binding assays and/or tissue culture techniques. (Job Code: MB/PE)

#### Protein Purification/ Characterization

Ph.D., M.S. and B.S.-level positions available for individuals with 2+ years of experience in the isolation, purification, and characterization of proteins produced in heterologous hosts. Preference will be given to candidates who have worked closely with X-ray structure groups and have a working knowledge of refolding proteins from *E. coli* inclusion bodies. (Job Code: PP/C)

#### Cell Biology/ Pharmacology

Candidates should possess a Ph.D. in Cell Biology, Biochemistry, Pharmacology, Physiology, or a related field supported by postdoctoral experience in the areas of angiogenesis, tumor cell biology/metastasis, or vascular biology. A demonstrated ability to design and perform various cell-based assays is required, along with strong communication and teamwork skills. Significant research experience in molecular biology, biochemical assay development, immunohistochemistry, and/or in situ hybridization would also be desirable. (Job Code: CB/P)

#### **Cell Biology**

B.S./M.S.-level positions available for candidates with a minimum of 3 years experience in hands-on mammalian cell biology and in vitro cellular/biochemical assays. Additional experience in one or more of the following areas is desirable: endothelial cell biology, cell migration assays, immunoassay development, protein biochemistry, recombinant protein expression, immunohistochemistry, and in situ hybridization. (Job Code: CB1)

#### Enzymology

Ph.D., M.S., and B.S.-level positions available for individuals with 2+ years experience in automated assays and characterization of small molecule inhibitors and antagonists. Preference will be given to individuals with experience in assay development and high-throughput screening for small molecules of therapeutic value. Familiarity with computers and participation in multidisciplinary teams is expected. (Job Code: E1)

#### X-Ray Crystallography

Ph.D.-level position available for an individual with a demonstrated capability in protein crystallization, data collection, structure determination, and refinement. Preference will be given to candidates experienced in structure-based drug design. (Job Code: XC)

3-Dimensional Pharmaceuticals, Inc. is a drug discovery company engaged in the discovery of innovative pharmaceuticals by integrating advanced technologies in structure-based drug design, combinatorial chemistry, and chemi-informatics. Located in Exton, PA, 3DP offers a comprehensive compensation and benefits package. Qualified individuals are invited to send their cover letter and resume with contact data for three references to:

3-Dimensional Pharmaceuticals, Inc. Attn: HR - Job Code: 665 Stockton Drive, Suite 104 Exton, PA 19341



http://www.3dp.com

FOF

Biogen has established a unique record of success as one of the world's premier biotechnology companies. Pioneering research by our scientists has led to the introduction of several important new medical therapies, including AVONEX® (Interferon beta-1a), the most prescribed therapy in the U.S. for

relapsing forms of multiple sclerosis. We are staking our future growth on the development of our next generation of pharmaceutical products, five of which are currently being tested in human clinical trials. Today, we are seeking the following committed professional to join our expanding team.

# DEFINING SUCCESS IN BIOTECHNOLOGY

#### SCIENTIST - PROTEIN CRYSTALLOGRAPHY

Aid in x-ray crystallographic studies for the determination of protein structures in support of on-going projects. Ph.D. in Biochemistry or Biophysics or related field with 2+ years' experience in protein structure determination through x-ray crystallography. The selected candidate will have demonstrated skills in protein crystallization, x-ray data collection and protein structure determination. Protein purification and structure-based design experience would be a plus. In addition the ideal candidate will have excellent verbal and written communications skills and should have demonstrated the ability to participate as part of a multi-disciplinary research team. Job Code: RC-SPC

Biogen has an outstanding record of leadership and accomplishment in the biotechnology field. We have one of the strongest financial profiles in the industry, and our compensation and benefits package, including equity participation, is unmatched. We've created an environment designed to attract and retain the world's most accomplished talent, and we invite you to forward your resume, indicating job code, to the following address. All of our positions are located in Cambridge, MA. Biogen, Inc., Resume Processing Center, P.O. Box 708, Burlington, MA 01803; Fax: (617)679-2546; E-mail: biogen@webhire.com Biogen is an Equal Opportunity Employer.



DELIVERING ON THE PROMISE OF BIOTECHNOLOGY

http://www.biogen.com



# Brooklyn

# Offers Five Faculty Positions in the Department of Physiology and Pharmacology

The newly expanded Department of Physiology and Pharmacology at the State University of New York Health Science Center at Brooklyn (SUNY Brooklyn) is now inviting applications for five tenure-track faculty positions. Positions will be filled at **Assistant**, **Associate or Full Professor** levels, depending upon qualifications. Candidates should have a proven aptitude for innovative and productive research with an emphasis on **molecular and cellular approaches**. Areas of interest may include:

- Molecular recognition at receptor/ligand binding sites
- Intracellular and intercellular signaling
- Developmental and degenerative diseases

Successful candidates are expected to conduct vigorous research programs, and to contribute to the teaching of Physiology to medical students and graduate students. They will be offered generous recruitment packages, including state-of-the-art laboratories, startup funding for lab equipment and operation, and salaries competitive for the New York Metropolitan area. They will join a group of established investigators with internationally recognized research programs.

The Health Science Center is located in Brooklyn, a short distance from Manhattan. Brooklyn is rapidly undergoing a remarkable revitalization of its cultural and educational institutions. The location provides ready access to cultural and scientific centers of the New York Metropolitan area.

Please send a curriculum vitae, statement of research interests and contact information for three references to:

Robert K. S. Wong, Ph.D.
Department of Physiology and Pharmacology, Box 29
SUNY Brooklyn
450 Clarkson Ave
Brooklyn, NY 11203

Applications will be accepted until the positions are filled. Review will begin June 1, 1998. SUNY Brooklyn is an Affirmative Action / Equal Opportunity Employer.

#### Postdoctoral Fellowships in the Radiation Sciences Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh

The University of Pittsburgh has been designated as a unique academic "Center of Excellence" to provide Postdoctoral Fellowships for research and study in the Radiation Sciences. The goal of this training program, supported by the U.S. Department of Energy, is to replenish the national pool of doctoral-level, multidisciplinary radiation scientists in governmental, academic, and industrial research positions focused on the health effects from ionizing radiation exposure.

The program offers a two-year sequence including course work, laboratory rotations, colloquia and seminars, a radiation epidemiology workshop, and one year of field experience at domestic or foreign sites of interest to the Department of Energy. Areas of concentration include: radiation epidemiology and biostatistics; health physics and radiobiology; biological dosimetry, biomarker development and application; and occupational medicine.

Applicants should have a recent doctoral degree (Ph.D., M.D., D.Sc., Dr.P.H.) in the natural or health-related sciences. M.D.'s may integrate Program training with a departmental Occupational Medicine Residency. A University-supported third year may be arranged if necessary. A stipend of \$33,500 for the first year, \$36,000 for the second year, research expenses, health insurance, and annual travel allowances to and from research sites are provided. Fellows must be U.S. citizens or permanent residents.

For additional information or application materials, contact: Niel Wald, M.D., Program Director, A744 Crabtree Hall, Graduate School of Public Health, 130 Desoto Street, Pittsburgh, PA 15261; or telephone (412) 624-3155, fax (412) 624-3040, or e-mail wald@vms.cis.pitt.edu.

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



#### DIRECTOR OF ADMINISTRATION Department of Cell Biology

Harvard Medical School seeks a Director of Administration for the Department of Cell Biology. Reporting to the Chair, **Marc Kirschner**, this position of unusually broad scope makes a substantial contribution to the research environment within the department and in the larger community.

Responsibilities include: facilitate all phases of financial, academic, human resource, operations, and research administration for 30 labs; mentor a team of more than 12 administrative staff; plan and allocate 50,000 sf of lab space; work with faculty on recruitment, promotion, and scientific/publication processes; actively manage the matrix relationship between the Department and the medical school administration; and develop new shared research facilities. The position has a potential for teaching and a nontenured faculty appointment. For more information about the Department of Cell Biology, see http://cbweb.med.harvard.edu.

The successful candidate must have a deep and comprehensive understanding of how excellent academic research is done. Candidates should have managerial experience, and preferably an advanced degree in biomedical science. For immediate consideration, please e-mail résumé and contact information of three references to: resume@warren.med.harvard.edu, or mail to: Robert Amelio, Office of Human Resources, Harvard Medical School, 25 Shattuck Street A-010, Boston, MA 02115.

Harvard upholds a commitment to Affirmative Action and Equal Opportunity. We offer competitive salaries and an outstanding benefits package.

# Tenure Track Faculty Position in Cellular/Molecular Neurobiology

Medical College of Wisconsin Department of Cell Biology, Neurobiology and Anatomy

A tenure track faculty positions at the Assistant and/or Associate Professor level are available for neurobiologists that uses cellular, molecular, developmental and/or genetic approaches. Competitive salary, laboratory space and start-up funds are available. Candidates at the Associate Professor level would be expected to have an established research program with significant extramural funding. Individual programs in photoreceptor biology, color vision, functional imaging, cardiac development, differentiation of neural crest, muscle development, early embryology of the mouse and mitochondrial gene expression in visual cortex are already established. The successful candidate must show promise of establishing a distinguished research career using modern technical approaches and an ability to focus on fundamental questions central to the field of cellular/developmental neurobiology. The successful candidate will be expected to contribute to a team taught neurosciences course for medical students and participate in an interdisciplinary neurosciences graduate program. PhD or MD/PhD (or equivalent) plus additional postdoctoral experience essential. Interested individuals should send résumé and the names of three references to:

Dr. Joseph C. Besharse, Chairman Dept of Cell Biology, Neurobiology & Anatomy Medical College of Wisconsin 8701 Watertown Plank Road Milwaukee, WI 53226



For more information visit our Website at http://www.mcw.edu/cellbio/

#### Department of Energy • Office of Energy Research

#### Program Notice 98-16; Genome Instrumentation Research Program

The Office of Biological and Environmental Research (BER) of the Office of Energy Research (ER) of the U.S. Department of Energy (DOE), announces its interest in receiving applications in Instrumentation Research supporting the Human Genome Program. Applications are sought from a broad range of scientists with backgrounds in biology, chemistry, physics, and engineering including those not presently involved in the Human Genome Program. Both substantive improvements to current systems and novel and creative new strategies are needed in preparation for the needs of biology in the next century. New instrumentation and technical approaches are sought for DNA sequencing, automation and integration of DNA sequencing systems, validation of DNA sequencing accuracy, and the determination of gene function of newly sequenced DNA. The goals are to reduce costs and increase the throughput while maintaining accuracy for production DNA sequencing and related analyses. The full text of Program Notice 98-16 is http://www.er.doe.gov/production/grants/grants.html.

**DATES:** Potential applicants are encouraged to submit a brief preapplication which should be received by DOE by 4:30 P.M., E.D.T., June 8, 1998. Formal applications, in response to this notice, must be received by 4:30 p.m., E.D.T., August 19, 1998.

FOR FURTHER INFORMATION CONTACT: Charles G. Edmonds, Medical Applications and Biophysical Research Division, ER-73, 19901 Germantown Road, Germantown, MD 20874-1290; telephone: (301) 903-0042; E-mail: charles.edmonds@oer.doe.gov.

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WE ARE A VITAL GLOBAL FORCE. A cogent synergy of science and technology, focused on one thing--controlling disease. Combining diagnostic, vaccine and therapeutic strategies, we wield our core expertise over some of the world's deadliest diseases, including HIV, hepatitis, cardiovascular disease and cancers. The fight is fierce. But through our four healing properties, we exert our shared power to take on disease and transform the practice of medicine around the world. We are currently seeking the following professional to join our diversified scientific team at our convenient Emeryville location on the beautiful San Francisco Bay.

#### SCIENTIST I Vaccines Research

position available for a Staff Immediate Scientist experienced in cellular and molecular immunology to join the laboratories for Vaccines Research with Chiron Technologies. Studies are currently in progress to exploit adjuvants as probes of the immune system and to elucidate the immunological mechanisms underlying the stimulatory effects of clinically relevant vaccine adjuvant formulations. These studies will serve as the basis for the design of assays suitable for characterization of novel vaccine formulations. Experience in the determination of cellular and molecular immune responses is required. Familiarity with dendritic cell isolation and characterization is preferred. Two or more years of postdoctoral experience is strongly recommended.

Located on four continents, Chiron offers a culturally blended environment that promotes courage, candor and creative exchange. Our employees empower our mission. They think independently and globally. They believe in the value of differing views and the virtues of new ideas. They are the life force of Chiron, working together to create power over disease. To join us, send curriculum vitae. summary of current research and names of three references to: Dr. Gary Ott, Chiron Corporation, Job Code: 3180, 4560 Horton Street, Emeryville, CA 94608, Fax: 510-923-4265, Email: gary\_ott@cc.chiron.com. Visit our website to learn more at www.chiron.com. As an equal opportunity employer, Chiron honors diversity in every respect.



# **ZymoGenetics**

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant. Our mission is to identify protein therapeutic opportunities and to take selected projects as far as clinical proof of concept studies. We are currently seeking qualified condidates for the following position:

#### **Senior Scientist**

The Department of Immunology is seeking a Senior Scientist to support our work in Discovery Biology towards developing novel protein therapeutics. The successful candidate will design and implement appropriate in vitro and in vivo assays that test the activity of novel lignads and receptors. The candidate must have a thorough background in immunology/inflammation with an established record in ctyokine biology and animal models. Must be able to demonstrate proper strategic design in meeting project goals and use professional conception to contribute to the development of company and its guiding principals. Education requirements: Ph.D. in a scientific discipline, and 2-5 years related experience in research environment.

As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending a cover letter noting **Job reference #34R198** and a detailed resume of your work experience and academic background to: ZymoGenetics, Inc., Attn: Human Resources; 1201 Eastlake Avenue East; Seattle, WA 98102. Fax: (206) 442-6658. EOE.

# ZYMOGENETICS

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- Allergan is a global leader as a specialty pharmaceutics company. We are known for excellence in the development, manufacture and marketing of pharmaceutical drugs for a variety of neuromuscular disorders as well as eye and skin care. Clinical research plays a major role in our ongoing success. We have the following openings:
  - SECTION MANAGERS, BOTOX® (CNS) CLINICAL RESEARCH
  - Will supervise a staff of CRA's to plan and execute scientifically valid human medical research programs in compliance with world wide regulations for new product development and post-marketing CNS studies. Responsibilities include advising on nature/acceptability of medical risks in clinical studies and interpreting pre-clinical research data for clinical significance and impact. Requires experience leading PLA filings, knowledge of federal and international regulations governing human medical research and an understanding of scientific method, research design and medical practices/procedures acquired through exposure to human research studies. Requires a Doctorate, MD or PharmD.
- dures acquired through exposure to human research studies. Requires a Doctorate, MD or PharmD. degree and 4 years experience, an MS degree and 6 years experience or a BA/BS degree and 8 years experience. We prefer supervisory background and technical experience in neurological and ophthal-mologic therapeutic areas, as well as prior experience developing CNS products.
  - PRINCIPAL CLINICAL RESEARCH ASSOCIATE, BOTOX® (CNS)
- Will assist in the development, analysis and evaluation of scientifically valid human research CNS studies. Responsibilities include projecting time lines/budget, qualifying and managing (10-30) clinical sites, ensuring availability of supplies, writing protocols, obtaining pre-study documents, monitoring CRFs and conducting site visits. Approximately 25% travel. Requires a Doctorate, MD or PharmD. degree and 2 years experience, an MS degree and 4 years experience or a BA/BS degree and 6 years experience.
  - We reward our employees with a competitive salary, an excellent benefits package and a great working environment. Please send resume (e-mail preferred) to: resume@allergan.com If unable to e-mail, send resume to: Allergan, Attn: ADTJ T2-1R, 2525 Dupont Drive, Irvine, CA 92612. EOE.



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**ICOS Corporation** is making inroads in the field of inflammation with several promising drug candidates already in Phase I and II clinical trials for ARDS, multiple sclerosis, hemorrhagic shock, and myocardial infarction. Our focused R&D efforts promise continued growth with exceptional career opportunities.

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Focus on protein interactions that regulate the subcellular localization and activity of enzymes involved in signal transduction, specifically in the areas of inflammation and neuronal regulation. You must be capable of developing and performing cell-based assays to aid our research and to characterize potential drug leads from high throughput screens. BS/MS and 3+ years of experience or PhD and 1-2 years experienced required. Demonstrated experience in tissue culture maintenance of primary cell and cell lines, isolation of cells from peripheral blood, cell proliferation, cytotoxicity and cytokine release assays essential. Skills in ELISA and RNAse protection assays, transfection of mammalian cells, flow cytometry, and immunocytochemistry, preferably with some biochemistry/molecular biology experience, are desirable.

REF: LA10498/569



# RESEARCH ASSOCIATES Preclinical

Seeking 2 Preclinical Researchers, one at a Senior level, to develop non-clinical experimental models and perform testing of novel anti-inflammatory and neoplastic agents. Ability to contribute to experimental protocol development, data analysis and report writing is essential. The Senior position requires a BS with 5+ years industry experience or a PhD in Animal Science, Immunology or Microbiology. The other position requires a similar BS/MS. Familianty with cell isolation and in vitro cell culture techniques and experience with ELISA assays are desirable.

REF: GRE0598-573 (Senior); REF: DIE0498-567

ICOS offers the opportunity to contribute to cutting-edge science as part of our high profile team of biopharmaceutical talent. We provide a highly attractive compensation and benefits package, including stock options. To apply, please send your resume to ICOS Corporation, Human Resources, REF: \_\_\_\_\_, 22021 20th Avenue SE, Bothell, WA 98021. You may also see our job postings at www.bio.com. EOE.





#### VICE CHANCELLOR FOR RESEARCH UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER

The University of Massachusetts Medical Center seeks candidates with outstanding scientific and leadership credentials for the position of Vice Chancellor for Research. This individual will be the institution's top scientific officer and will have resources to lead the continued development of basic and clinical research programs at a dynamic medical center. This position provides extraordinary opportunities to direct a substantial scientific enterprise undergoing rapid expansion, including new buildings under construction and recently launched interdepartmental programs in genetics, cancer, chemical and structural biology, and neuroscience.

We seek a distinguished scientist with exceptional leadership abilities. The successful candidate will work closely with academic chairs and center directors and will report directly to the Chancellor. The Vice Chancellor for Research will receive a tenured faculty appointment in a basic science or clinical department. The continued pursuit of an active research program is encouraged if desirable to the appointee.

The University of Massachusetts Medical Center has a faculty of internationally recognized investigators actively involved in biomedical research. A broad spectrum of investigator-initiated research grants as well as several training grants, program projects, and centers support research training of graduate students, M.D./Ph.D. students, postdoctoral and clinical fellows. It is expected that successful candidate will provide leadership in further developing these programs as well as forging ties with industrial and private funding sources.

Please send curriculum vitae and names of references to: Dr. Michael P. Czech, Chair, Vice Chancellor for Research Search Committee, Program in Molecular Medicine, University of Massachusetts Medical Center, 373 Plantation Street, Worcester, MA 01605. The University of Massachusetts Medical Center is an Equal Opportunity/Affirmative Action Employer: women and minorities are particularly encouraged to apply.

# Rapid Access to Intervention Development "RAID"

The NATIONAL CANCER INSTITUTE announces a new initiative: Rapid Access to Intervention Development (RAID). RAID will make available to academic investigators, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials. RAID will assist investigators who submit successful applications by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation, and toxicology. Suitable agents for RAID will include small molecules, biologics, or vaccines. The first group of proposals will be received by August 1, 1998. Thereafter, there will be two receipt dates per year, February 1, and August 1, with all materials submitted directly to the office listed below. For information on process and procedure, visit the web site, http://epnws1.ncifcrf.gov:2345/dis3d/raidfin.html. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. Please contact:

> RAID, Office of Associate Director Developmental Therapeutics Program, NCI Executive Plaza North, Suite 843 6130 Executive Blvd., Rockville, MD 20852 Tel: 301.496.8720; Fax: 301.402.0831 Email: sausville@dtpax2.ncifcrf.gov



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# DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH

At Schering-Plough Research Institute, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you want to be on the cutting edge of pharmaceutical discovery, become part of an advanced multidisciplinary research group.

# **Assistant Scientist**High Throughput Screening

We seek a talented Biochemist to join a team of professional scientists involved in automated high throughput screening for novel therapeutic entities. To qualify, you will need a BS/MS in Biochemistry or a related discipline and 0-4 years of experience. Background should include undergraduate/graduate thesis or workstudy as well as a basic knowledge of evaluating laboratory data using software tools such as MS Excel. Knowledge of enzyme or receptor binding assays and previous experience in the use of radioisotopes are helpful. Computer programming skills or knowledge of automated liquid handling equipment is a plus. Excellent organizational and communication skills are essential.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For confidential consideration, we invite you to apply on-line at <a href="http://www.sp-research.com">http://www.sp-research.com</a> or send a scannable resume and cover letter original copy only, referencing Dept. DD7150/MD, to: Human Resources-DMS, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



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National Cancer Institute
National Institutes of Health, Public Health Service

# CANCER PREVENTION FELLOWSHIP PROGRAM

The National Cancer Institute is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited one-year university programs); Participation in the Cancer Prevention and Control Summer Academic Course (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); Mentored research training in cancer prevention and control at the National Cancer Institute; Brief field assignments in cancer prevention and control programs at other institutions. Fellows will be accepted for up to five years of training, beginning July 1, 1999. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Research opportunities include but are not limited to: chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

#### **ELIGIBILITY**

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one-year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

#### OR

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health, or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

#### **PLUS**

The applicant must be a citizen or resident alien of the United States eligible for citizenship within four years.

To receive an application catalog either call, fax, e-mail, or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director, Cancer Prevention Fellowship Program
National Cancer Institute
Executive Plaza South, Suite T-41
6130 EXECUTIVE BLVD MSC 7105
BETHESDA, MD 20892-7105

#### Further Inquiries:

Mrs. Barbara Redding TEL (301) 496-8640 FAX (301) 402-4863 e-mail: br24v@nih.gov http://dcp.nci.nih.gov/cpfp/

#### DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1998

Selection for this training program will be based solely on merit, with no discrimination for nonmerit reasons, such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

NIH is an Equal Opportunity Employer.

#### POSITIONS OPEN

#### FACULTY POSITION BIOINFORMATICS OR CLINICAL INFORMATICS

Stanford Medical Informatics, Stanford University School of Medicine invites applications for a TENURE-TRACK faculty position in the Department of Medicine. Faculty rank will be commensurate with previous experience. Candidates must have formal advanced training in biomedical informatics or computer science, and must have excellent research abilities. The search committee will consider candidates with research interests either in bioinformatics (investigation of methods for computational biology) or in clinical informatics (the application of information technology in health-care settings). The successful applicant will conduct a vigorous, independent research program, teach in the classroom, advise students in a graduate training program in medical information sciences, and assist in program administration. Special consideration will be given to candidates who, in addition, will be able to contribute to the clinical programs of the Department of Medicine. Applicants should send a curriculum vitae, a brief statement of their research interests, and the names of three referees to: Mark A. Musen. M.D., Ph.D., Associate Professor of Medicine and Computer Science, Head, Stanford Medical Informatics, Stanford University School of Medicine, Stanford, CA 94305-5479. Stanford University School of Medicine is committed to increasing representation of women and members of minority groups on its faculty and we particularly encourage applications from such candidates.

#### PUBLIC AFFAIRS ASSOCIATE AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

The American Society for Pharmacology and Experimental Therapeutics (ASPET) is seeking a full-time Public Affairs Associate to manage government relations and public outreach activities for a 4,500-member scientific professional society. Candidates must be able to communicate with members on scientifically relevant issues and explain those issues to the public and legislators as well as work with the media and lay public to convey nature of pharmacology. The ability to write clearly and succinctly and to translate science into understandable terminology is requisite. The selected applicant will be a senior mem ber of the Society staff and will represent the Society with various advocacy groups. In addition s/he will provide staff support to multiple committees, work with the Webmaster to maintain an up-to-date public affairs website, prepare a variety of written documents, work with other public affairs staff in other societies, monitor legislation and policy development, maintain communications with members, and attend relevant Congressional and agency meetings. Applicants are encouraged to submit a résumé or curriculum vitae and the names of three references to:

> Federation of American Societies for Experimental Biology Human Resources 9650 Rockville Pike Bethesda, MD 20814

ASPET is an Equal Opportunity/Affirmative Action Employer.

## TENURE-TRACK FACULTY POSITION IN PHARMACOLOGY

The Department of Pharmacology at the University of Vermont College of Medicine invites applications for two tenure-track positions in pharmacology (ASSISTANT, ASSOCIATE, or FULL PROFESSOR). Candidates should have a Ph.D. or M.D. degree with at least two years of postdoctoral training. Applicants at the Associate/Full Professor level must have a funded and productive research program and demonstrated excellence in teaching, scholarship, and service. Candidates are sought in the field of cardiovascular research including the molecular biology of ion channels (including SR and nuclear envelope channels), signaling, and control of cell proliferation/growth/death. The successful candidate will be expected to pursue an extramurally funded, independent research program and must be committed to excellence in teaching. Applicants should submit a curriculum vitae, statement of research objectives and career goals, and three letters of reference to: Search Committee, Department of Pharmacology, College of Medicine, University of Vermont, Burlington, VT 05405. The deadline for receipt of applications is June 30, 1998

The University of Vernont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.

#### POSITIONS OPEN

#### CHAIR OF PHYSIOLOGY MEDICAL COLLEGE OF GEORGIA

The Medical College of Georgia invites applications and nominations for the position of Chair of the Department of Physiology and Endocrinology in the School of Medicine. The department has a distinguished history of academic and research achievement, and the new Chair will have the opportunity and resources to adopt a leadership role in defining the future course and development of the department. The candidate must have a national reputation for excellence in scholarship, teaching, and research and have demonstrated expertise in guiding the independent research efforts of younger scientists. The candidate is expected to hold a Ph.D. and/or M.D. degree with expertise in physiology or a closely related field. The Department currently has 14 full-time faculty

The Department currently has 14 full-time faculty members, 12 graduate students, and 19 full-time staff members. Faculty members are actively engaged in diverse research programs and collaborative projects with other basic science and clinical departments. The faculty is responsible for teaching courses to medical, graduate, and allied health students.

Interested candidates should send a curriculum vitae to: Dr. Sylvia B. Smith, Chair of the Search Committee for the Chair of the Department of Physiology and Endocrinology, c/o Dean's Office, School of Medicine, AA-152, Medical College of Georgia, Augusta, GA 30912-4750. The Medical College of Georgia is committed to diversity in its faculty and students. Women and minorities are encouraged to apply.

Rutgers University Center for Information Management, Integration, and Connectivity seeks a **RE-SEARCH PROFESSOR** (rank open) to coordinate a research agenda at the newly established Meadowlands Environmental Research Institute.

Ph.D. degree in ecology, environmental sciences, or related field; be familiar with marsh and/or estuarine ecosystems; experience in managing scientific research projects; possess excellent communication and interpersonal skills; and be able to publish original research, and secure external funding.

The position is non-tenure-track, available for a minimum of three years renewable. Starting date is July 1998.

Send cover letter, curriculum vitae, and three references by June 15, 1998, to: Dr. Nabil Adam, Center for Information Management, Integration, and Connectivity, 180 University Avenue, Newark, NJ 07102. E-mail: artigas@cimic.rutgers.edu; FAX: 973-353-5003.

Affirmative Action/Equal Opportunity Employer.

## EXECUTIVE DIRECTOR OF BIOLOGICAL FIELD STATIONS

The College of Sciences seeks an Executive Director for the San Diego State University Biological Field Stations. Candidates must have a Ph.D., be interested in facilitating research and education in the natural sciences, and show success in obtaining and administering funds.

This is a full-time, 12-month position; salary commensurate with experience. Application review starts June 8, 1998, and will continue until filled. For complete information see our website: http://www.scc.sdsu.edu/BFS/. Applicants should send a curriculum vitae, three letters of reference, and a cover letter addressing your administrative philosophy and interest in field station development to: Field Station Director Committee Chair, College of Sciences, San Diego State University, 5500 Campanile Drive, San Diego, CA 92182-4610. San Diego State University is an Equal Employment Opportunity Employer.

#### DIRECTOR CENTER FOR SALMON DISEASE RESEARCH

Oregon State University invites applications for a tenure-track, full-time faculty position at the ASSISTANT OR ASSOCIATE PROFESSOR level. Seeking an individual with research and leadership experience in diseases of salmonid species. Salary commensurate with experience and qualifications. For full consideration apply by July 31, 1998. Screening will begin immediately and anticipated starting date is September 15, 1998. Apply by submitting a letter of application, curriculum vitae, four letters of reference, graduate transcripts, and statement of research interests to: Dr. Jo-Ann Leong, Chair, Department of Microbiology, Oregon State University, Corvallis, OR 97331-3804. Telephone: 541-737-1834; FAX: 541-737-0496; e-mail: leongj@orst.edu. OSU is an Equal Employment Opportunity/Affinnative Action Employer and has a policy of being responsive to dual-career needs.

#### POSITIONS OPEN

University of Colorado Health Sciences Center: AS-SISTANT PROFESSOR, signal transduction/molecular toxicology. A tenure-track position is available in the Department of Pharmaceutical Sciences at the School of Pharmacy. Target research areas include signal transduction and/or molecular toxicology. This is an excellent opportunity to join an established and well-funded department at a time of unprecedented growth. Situated on a major health sciences center campus, the department is an integral component of an NCI Comprehensive Cancer Center and offers Ph.D. degrees in both Pharmaceutical Sciences and Toxicology. The successful applicant will possess two or more years of postdoctoral training and be dedicated to an academic career involving the development of an extramurally funded research program; teaching in the pharmaceutical sciences (at Ph.D. and Pharm.D. levels); and a commitment to scholarly service to both the scientific community and the institution. Candidate screening will begin immediately and continue until the position is filled. Applicants should send a letter containing a statement of career objectives and research plans, a curriculum vitae, and the names of three references with regular and e-mail addresses and telephone and FAX numbers to: David Ross, Ph.D., Chairman, Department of Pharmaceutical Sciences, School of Pharmacy C-238, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Denver, CO 80262-0238. Telephone: 303-315-7732; FAX: 303-315-0274. The University of Colorado Health Sciences Center is dedicated to Affirmative Action and Equal Opportunity.

QUANTITATIVE ECOLOGIST. The Biology Department at Montana State University-Bozeman seeks a tenure-track ASSISTANT/ASSOCIATE PROFES-SOR, starting 1 January 1999. \$34,000 minimum, dependent on experience. Require: Ph.D. in ecology or related field, evidence of potential to teach and develop an extramurally funded research program. Desire: applied research in spatial and temporal dynamics of vegetation as driven by ecological processes (e.g., disturbance, nutrient cycles, or energy flow) or aquatic-terrestrial interactions. Responsibilities: teach an introductory course in environmental sciences and a graduate course in an area of interest; develop a nationally competitive research program. Send letter of application addressing qualifications; curriculum vitae; names, addresses, telephone numbers, and e-mail addresses of four professional references; three representative publications; and statement of teaching and research interests to: Quantitative Ecology Search Committee, Biology Department, Montana State University, Bozeman, MT 59717. Telephone: 406-994-4481. Full position announcement at website: http://www.montana.edu/wwwbi. Screening begins September 1, 1998. Affirmative Action/ADA/Equal Opportunity/Veterans preference.

# FACULTY POSITION DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Stritch School of Medicine Loyola University Chicago

The Department of Microbiology and Immunology (Chair, Dr. Katharine L. Knight) invites applications for a TENURE-TRACK appointment at a JUNIOR or SENIOR LEVEL. The candidate is expected to develop or have established an independent, extranurally funded research program to study molecular aspects of immunology or virology. Excellent facilities and attractive start-up funds are available. Applicants should send a curriculum vitae, a concise statement of their present and future research interests, and names and addresses of three references to: Dr. Katherine Knight, Department of Microbiology and Immunology, Loyola University Chicago, 2160 South First Avenue, Building 105, Maywood, IL 60153.

ASSISTANT ADJUNCT PROFESSOR of surgery, Division of Urology, University of California, San Diego. Position includes participation in teaching, research, and university service. Salary per UC pay scale. Qualifications: (1) Ph.D. in pharmacology; (2) experience in basic research and teaching at the undergraduate, graduate, and postgraduate levels; (3) experience in immunopharmacology, reproductive toxicology, male infertility, and erectile dysfunction required. Send curriculum vitae with names of three references to: Joseph D. Schmidt, M.D., Professor and Head, Division of Urology, University of California, San Diego, 200 West Arbor Drive, San Diego, CA 92103-8897. Closing date May 31, 1998. University of California is an Equal Opportunity/Affirmative Action Employer.

# **U** NOVARTIS

Novartis Agribusiness Biotechnology Research, Inc. (NABRI), a Novartis Group Company formed from the merger of Ciba and Sandoz, has become the natural habitat of some of the world's brightest scientific professionals. Located in the heart of North Carolina's Research Triangle Park, our diverse scientific teams have access to a wealth of resources, enabling them to apply tomorrow's technology toward addressing today's critical research issues.

# PROTEIN MOLECULAR BIOLOGIST Position No. 743

As a member of the world's largest life sciences company, you will join a multi-disciplinary research team with manipulation of insecticidal proteins as your primary goal.

To qualify, you must have a PhD in biochemistry, biophysics or a related field. An MS degree with 3+ years experience is acceptable as well. Strong background in protein structure and function is essential, as is a record of achievement in protein engineering and mutagenesis. Molecular biology skills, such as those related to gene expression in heterologous systems, are required. Familiarity with phage display is helpful.

NABRI offers a competitive salary commensurate with qualifications and experience, and a comprehensive benefits package. For prompt consideration, respond online (include position # 743): biotech.jobs@cp.novartis.com or forward a resume and cover letter (indicating position #743) to: Novartis, Human Resources, 3054 Cornwalis Road, Research Triangle Park, NC 27709-2257. We are an equal opportunity employer.

# TECHNICAL DIRECTOR OF ELECTRON MICROSCOPY AND IMMUNOCYTOCHEMISTRY CORE FACILITY

A position is available August 1, 1998, for an individual with extensive experience in the preparation and analysis of cells and tissues by electron microscopy and immunocytochemistry.

The Director will be responsible for the operation of a core facility in the Division of Cellular and Molecular Medicine at the University of California School of Medicine at San Diego. He/she must have achieved a high level of competence in the preparation and analysis of cells and tissues by electron microscopy and immunocytochemistry, including immunoperoxidase, immunofluorescence, immunogold labeling, and ultrathin cryosectioning.

Other duties are to instruct technicians, students, and postdoctoral trainees in the principles and practice of tissue preparation, microtomy, ultracryomicrotomy, and immunocytochemistry; work closely with faculty core director in development of new technologies; and assist faculty in planning and data collection.

An M.A. degree or its equivalent and at least 5 years of experience are required. Salary and title based on years of experience and qualifications.

Send CV and names of 3 references to:

Marilyn G. Farquhar, Ph.D.
Division of Cellular and Molecular Medicine
University of California San Diego
9500 Gilman Drive
La Jolla, CA 92093-0651
mfarquhar@ucsd.edu

University of California is an Affirmative Action/Equal
Opportunity Employer

#### HEALTH SCIENTIST ADMINISTRATOR

(Biological Sciences) GS-601-12/13/14 (\$47,066-\$85,978)

The Division of Genetics and Developmental Biology of the National Institute of General Medical Sciences, National Institutes of Health in Bethesda, MD is seeking a Health Scientist Administrator (Biological Sciences). The incumbent will be responsible for stimulating, planning, advising, directing, and evaluating program activities for a portfolio of basic biomedical research grants in genetics, including such areas as replication, recombination, and repair of DNA; mutagenesis; transcription; RNA processing; protein synthesis; rearrangement of genetic elements; extrachromosomal inheritance; and population genetics and evolution. The incumbent provides scientific expertise in specialized areas of genetics and advises applicants, grantees, and Institute staff regarding research aspects of grants within these areas of expertise. The incumbent also makes funding recommendations on specific research grant applications; attends meetings of study sections, review committees, and Council; and participates in site visits.

Applicants interested in applying must be U.S. Citizens and have met all requirements for a Ph.D. (or equivalent doctoral degree); or have a bachelor's or higher degree, with major study in an academic field of the health or pertinent sciences which has been applied and utilized in health or health-related research; or an equivalent combination of graduate study and related research experience. In addition, applicants must have (1) worked independently in planning, organizing, and conducting biomedical, behavioral health or health-related research; (2) served effectively in research program administration in these fields; and (3) acquired an understanding of the history, interests, internal dynamics and relationships of organizations where health research is conducted.

The best qualified candidates will be determined through your competence in the following Knowledge and Abilities (KSAs): 1) Knowledge of genetics, including both genetic and molecular approaches to understanding inheritance; 2) Ability to work effectively as part of a team; 3) Ability to write about complex scientific topics; 4) Ability to make critical judgments about biomedical research projects; and 5) Ability to provide expert advice on research trends in genetics and related areas.

You may apply by submitting a resume, OF-612, SF-171, or other written format, **AND** a description of your competence in the specific KSAs required for this position. You will be evaluated against each KSA, thus you are strongly encouraged to address them.

To obtain the complete announcement, contact:

NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
Personnel Office
45 Center Drive - MSC 6200
Suite 3As.13
Bethesda, MD 20892-6200
301-594-2749
TDD (301) 402-6327

Applications must be postmarked by the closing date of June 15, 1998.

NIH is an Equal Opportunity Employer

#### POSITIONS OPEN

# ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY Department of Pharmaceutical Sciences Campbell University School of Pharmacy

The Department of Pharmaceutical Sciences invites applications for a full-time faculty position at the AS-SISTANT or ASSOCIATE PROFESSOR level beginning June 1998. The successful candidate should have a Ph.D. in pharmacology, toxicology, or related discipline, with expertise in cellular/molecular methodologies. Teaching and postdoctoral research experiences and background in pharmacy are desirable, but not required. The candidate will serve as part of a multidisciplinary team with responsibilities for teaching in undergraduate, Pharm.D., and graduate-level pharmacology courses. The successful candidate will establish an active independent research program, which incorporates undergraduate and graduate research training. The School of Pharmacy, a highly progressive and model program in pharmacy education, offers the entry-level Pharm.D. degree as well as a unique B.S. degree in Pharmaceutical Sciences. Campbell University is a private Christian university located approximately 35 miles south of Research Triangle Park in Central North Carolina. Its student-oriented focus facilitates excellent academic and professional interactions. Applicants should include a letter of interest, curriculum vitae, statement of research interests, and the names and addresses of three references to: **Dr. Emanuel J. Diliberto, Jr.**, Chair, Department of Pharmaceutical Sciences, Campbell University School of Pharmacy, P.O. Box 1090, Buies Creek, NC 27506. Telephone: 800-760-9697, ext. 1695; FAX: 910-893-1697; e-mail: diliberto@camel.campbell.edu. Campbell University is an Equal Opportunity Employer.

#### PLANT BIOTECHNOLOGY

Applications are invited for a 12-month, tenure-track research and teaching position in plant molecular biology at the ASSISTANT or ASSOCIATE PROFESSOR rank at the University of Arkansas. The incumbent will be expected to develop and maintain a research program in the control and/or regulation of plant gene expression in rice or another major crop species and the effects of al-tered gene expression on plant metabolism and physiology. Additional responsibilities include developing and participating in strong undergraduate and graduate courses in plant biotechnology or related subject matter. Qualifications for the position include a Ph.D. degree in a plant science discipline with demonstrated expertise in plant gene regulation/expression and evidence of excellence in teaching, grantsmanship, and other scholarly activities. Applications will be accepted until July 1, 1998. or until a suitable candidate is found. Appointment level will be commensurate with experience. Interested individuals should submit a letter of interest, curriculum vitae, and the names, addresses, and telephone numbers of four referees to: Dr. L. Purcell, Search Committee Chair, University of Arkansas, 276 Altheimer Drive, Fayetteville, AR 72704. Telephone: 502-575-3983; email: lpurcell@comp.uark.edu.

The University of Arkansas is an Affirmative Action/Equal Opportunity Employer and applications will be accepted without regard to age, race, color, creed, sex, or national origin. All applicants must have proof of eligibility to work in the United States.

#### ASSISTANT PROFESSOR UNIVERSITY OF FLORIDA Department of Microbiology and Cell Science

The Department of Microbiology and Cell Science at the University of Florida invites applications and nominations for a 12-month tenure-track position as ASSIST-ANT PROFESSOR starting on or about October 1. 1998. Applicants should have a Ph.D. with postdoctoral experience and research expertise in molecular mechanisms of microbial pathogenesis, particularly in the area of host-parasite interactions. The successful candidate is expected to develop a research program supported by extramural funding, to be an active and innovative instructor in undergraduate and graduate courses in parasitology, and supervise Ph.D. graduate students. Send curriculum vitae. description of research interests, and names of five references by August 3, 1998, to: Dr. Howard M. Johnson, Department of Microbiology and Cell Science, P.O. Box 110700, University of Florida, Gainesville, FL 32611-0700. E-mail: hjohnson@micro.ifas.ufl.edu; Telephone: 352-846-0968. The University of Florida is an Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### RESEARCH PATHOLOGIST CORNELL UNIVERSITY COLLEGE OF VETERINARY MEDICINE

The College of Veterinary Medicine is seeking a Veterinary Pathologist committed to a career in biomedical research. Qualified candidates must hold the D.V.M. and Ph.D. degrees (or equivalent) and, preferably, be certified by the American College of Veterinary Pathologists. Effort distribution for this position will be approximately 70 percent research and the successful applicant will be expected to develop a funded independent research program. The remaining effort will be distributed between teaching in the D.V.M. curriculum and participation in diagnostic services. Although there will be minimal service expectations, the individual will be expected to provide mentorship in graduate education, including the pathology residency program. The most competitive candidates will have completed postdoctoral training after the Ph.D. degree and will have begun to establish a publication record. Appointment will be at the ASSISTANT or ASSOCIATE PROFESSOR level, depending on experience, and salary will be competitive. Applicants should submit a complete curriculum vitae with names of three (3) professional references, and a letter of intent concerning career goals and research interests to: Dr. Barry J. Cooper, Search Committee Chair, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401. Informal inquiries are welcomed. Dr. Cooper may be contacted by e-mail: bjc3@cornell.edu or by Telephone: 607-253-3336. Applications will be considered until the position is filled, but review of candidates will begin on August 1, 1998. Cornell University is an Equal Opportunity/Affirmative Action Employer/Educator

#### MEDICAL HISTOLOGY FACULTY POSITION

Medical histology. The Department of Biomedical Sciences, Ohio University College of Osteopathic Medicine, invites applications for a full-time tenure-track ASSISTANT PROFESSOR position. Primary responsibilities are to teach medical microscopic anatomy and to maintain a viable, independent research program. A Ph.D. or equivalent and postdoctoral research training are required.

Ohio University has 19,000 students, including 2,000 graduate and 400 medical students. The Biomedical Sciences faculty is integrated into the University and directs graduate students (M.S. and Ph.D.) in the Department of Biological Sciences.

Starting date is September of 1998 or January of 1999. The eleven-month salary will be commensurate with experience, and is accompanied by an excellent benefits package. Review of applications will begin on July 1, 1998, but applications will be accepted until the position is filled. Please submit a letter of application, curricultum vitae, statement of teaching and research interests, and three letters of recommendation to: Cheri McFee, Medical Histology Search Committee, Ohio University College of Osteopathic Medicine, 304 Grosvenor Hall, Athens, OH 45701-2979.

Ohio University is an Affirmative Action/Equal Opportunity Employer.

Earth science/geology. Simpson College. ASSIST-ANT PROFESSOR starting August 1998 for Environmental Geologist to teach introductory geology, introductory earth science, historical geology, and specialty area. Interest/experience in undergraduate teaching and overseeing environmental science majors with earth science emphasis. Ph.D. preferred; A.B.D. required. Simpson College is a private United Methodist liberal arts college close to Des Moines. Application review begins June 3, 1998, and continues until filled. Send application, curriculum vitae, and three recommendation letters to: Dr. Joe Moody, Simpson College, Indianola, IA 50125. Affinnative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

#### FLORIDA A&M UNIVERSITY

Faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR levels in the areas of marine and estuarine sciences, environmental biotechnology, environmental restoration/waste management. Environmental chemistry and environmental policy are available in the Environmental Sciences Institute at Florida A&M University. A Ph.D. in the specified areas is required. Deadline: June 15, 1998. Applicants should send a letter of interest and a copy of their curriculum vitae to: Ms. Carrie Gavin, Florida A&M University, Equal Opportunity Programs, Modular Unit #5 Wailes Street, Tallahassee, FL 32307.

#### POSITIONS OPEN

## COLUMBIA UNIVERSITY CENTER FOR RADIOLOGICAL RESEARCH

Immediate opening for non-tenured faculty position at the ASSOCIATE PROFESSOR level. Candidates should have a Ph.D. and/or M.D. in radiation biology, molecular genetics, or other related disciplines. Faculty candidates must have an outstanding track record for independent research and extramural support, as well as an extensive publication list. The successful candidate will join an established team and should have experience in radiation biology and demonstrated competence in molecular biology, especially with regard to radiation-induced early responding genes. Send curriculum vitae, names and addresses of three references, and a statement of current and future research plans to: Dr. Eric J. Hall, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University takes Affirmative Action toward Equal Employment Opportunity. Women and minority candidates are encouraged to apply.

#### BIOCHEMISTRY VISITING ASSISTANT PROFESSOR

The Department of Biology, Hamilton College, invites applications for a one-year position at the Assistant Professor level, effective August 1998. Ph.D. preferred; teaching experience expected. The successful applicant will teach an upper-level course in general biochemistry, the cell chemistry part of a team-taught introductory course in biology, one additional course (microbiology would be viewed favorably), and possibly supervise one or two senior reseach projects. Send curriculum vitae, statements of teaching and research interests, and three letters of reference to: Ernest H. Williams, Chair, Department of Biology, Hamilton College, 198 College Hill Road, Clinton, NY 13323-1292. Application materials will be reviewed as received until the position is filled. Women and members of minority groups are encouraged to apply. Hamilton College is an Equal Opportunity/Affirmative Action Employer.

#### UNIVERSITY OF FLORIDA

Seeks a CLINICAL ASSISTANT PROFESSOR in the Department of Medicine, Division of Dermatology. M.D. degree, Board-certified/Board-eligible in dermatology. The responsibilities will include examining, evaluating, and treating outpatients in the Dermatology Clinics, participating in the inpatient consult service, teaching and instructing medical students and residents. This is a non-tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline June 4, 1998. Anticipated starting date July 1, 1998. Please reply with curriculum vitae to: Francisco Ramos-Caro, M.D., Associate Professor, Division of Dermatology, Box 100277 JHMHC, Gainesville, FL 32610. Affirmative Action/Equal Opportunity Employer.

#### CYTOGENETICS LABORATORY DIRECTOR

Genzyme Genetics is seeking applicants for the position of Cytogenetics Laboratory Director for its Santa Fe, New Mexico facility. Candidates must be American Board of Medical Genetics-certified in clinical cytogenetics. Significant experience in managing a cytogenetics laboratory is required. Interested applicants should submit a letter of interest, curriculum vitae, and a list of references to:

Diane Marbourg, Human Resources Manager Genzyme Genetics 2000 Vivigen Way Santa Fe, NM 87505 FAX: 505-438-2277

Genzyme Genetics is an Equal Opportunity Employer that is proud of the diversity of its work force.

University of Florida seeks an ASSISTANT PROFESSOR in the Department of Medicine, Division of Pulmonary Medicine. M.D. degree with at least six years of experience in lung transplantation in children and adults to direct its Lung Transplant Program. A record of experience and successful publication in lung transplant research, particularly in the area of transplant rejection, is essential, as is Board-certification/eligibility in pulmonary and critical care medicine. Salary and benefits are commensurate with experience. Recruiting deadline: June 30, 1998. Anticipated starting date: September 1, 1998. Please submit curriculum vitae to: Eloise Harman, M.D., Professor and Chief, Box 100225 JHMHC, Gainesville, FL 32610. An Affirmative Action/Equal Opportunity Employer.



# **University of Otago**

Te Whare Wananga o Otago

New Zealand

#### Professor in Pharmacology

#### DIVISION OF HEALTH SCIENCES

Applications are invited from candidates with a strong record of research and academic leadership in pharmacology, which could include toxicology or clinical pharmacology, for the position of Professor and administrative Head of the Department. The former Head of Department, Professor R Laverty, retired in January this year. The successful applicant will be expected to either take up his/her duties from 1 February 1999, or at an earlier date to be negotiated.

The Department has a current establishment of six academic staff in addition to the chair, but additional appointments are planned. The Department is situated in the Adams Building of the Medical School, and is closely allied with the School of Pharmacy, the National Toxicology Group, and other departments of the School of Medical Sciences. The Department is responsible for the teaching of pharmacology and toxicology to pre-clinical and clinical medical students, and dental, pharmacy and science students at undergraduate and post-graduate levels.

Research strengths of the department are currently in areas of neuropharmacology, cardiovascular pharmacology and new drug development. Recent rapid growth in graduate student numbers provides an opportunity for research development into other areas. Research collaboration within the Division of Health Sciences, and with the Division of Sciences is encouraged.

Current salary ranges are as follows:

Professor (non-medically qualified) NZ\$ 85,250 - NZ\$105,250 per annum.

Professor (medically qualified) NZ\$109,250 - NZ\$119,250 per annum.

Enquiries may be directed initially to Professor D.T. Jones (phone 64-3-479 5135; fax 64-3-479 5200; email: david.jones@stonebow.otago.ac.nz). Information about the Department is available on the Web at: http://www.otago.ac.nz/Web\_menus/Dept\_Homepages/pcol/Pcolmain.html.

Reference Number: AY98/123. Closing Date: 10 July 1998.

#### METHOD OF APPLICATION

Further details regarding this position, the University and the application procedure are available from the Deputy Director, Personnel Services, University of Otago, PO Box 56, Dunedin, New Zealand (phone 64-3-479-8269, facsimile 64-3-474-1607 or e-mail david.frame@stonebow.otago.ac.nz). Further information about the University of Otago can be found at our homepage at www.otago.ac.nz.

Applicants should send two copies of their curriculum vitae together with the names, addresses and fax numbers of three referees, to the Deputy

Director of Personnel Services by the specified closing date, quoting the appropriate reference number.

Equal opportunity in employment is University policy. E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwhinga mahi.

#### Manager, Confocal Imaging Facility Experimental Immunology Branch of the National Cancer Institute

The Experimental Immunology Branch (EIB) of the National Cancer Institute (NCI) invites applications for a Staff Scientist position to function as Manager of a Confocal Imaging Facility. Typical applicants will have an advanced degree in immunology, cell biology, or allied fields. The applicant must have extensive experience using laser scanning confocal microscopy, digital imaging, and video microscopy in cell biological applications. The applicant should have a wide range of computer skills that facilitate image capture and analysis, and preferably have some programming skills. The applicant would manage and run a core facility to support the imaging need for the EIB, which is a highly interactive group of about 50 scientists conducting research in molecular and cellular immunology. The applicant will be expected to apply new imaging technologies as they emerge. Salary range is between \$54-70,000 depending on qualifications and experience. Applicants should send curriculum vitae, bibliography, statement of career directions, and three letters of reference to:

> Ms. Karen Augustine National Institute of Health 10 Center Drive Bldg. 10 Room 4B17 MSC 1360 Bethesda, MD 20892-1360

Applications should be postmarked by July 15, 1998.

NIH is an Equal Opportunity Employer.

#### **Intramural Fellowship & Education Program Manager**

Applications are invited for the position of Program Manager in charge of the Office of Education, Division of Intramural Research, National Institute of Dental Research, National Institutes of Health. This position is a GS-13 (permanent) or Title 42 Staff Scientist GS13 equivalent. Staff Scientist appointments are made initially for up to five years; additional extensions may be approved dependent upon sustained high-level performance and continued need for the Staff Scientists capabilities. The Program Manager will be responsible for designing, developing, and guiding curricula and training programs for all junior staff including high school and college students and postdoctoral fellows within the Division of Intramural Research. The applicant is expected to develop curricula standards and novel training programs, and to manage M.S. and Ph.D. programs in conjunction with area universities. Other responsibilities include monitoring the quality of mentoring provided by NIDR Senior Investigators, serving as liaison with U.S. and foreign Universities and Dental Schools, and developing information pamphlets and books for recruitment purposes. Candidates must have a M.D., D.D.S., Ph.D., or equivalent; be a U.S. citizen, resident alien, or nonresident aliens with a valid employment-authorized visa. Preference will be given to those candidates with the broadest biomedical background and teaching experience.

Applicants should submit a curriculum vitae and bibliography, a short two page summary of teaching experience, scientific interests or experiences, and a list of at least four references. Additional information about the position and qualifications may be obtained from: Ms. Judith Duluvich, NIDR Personnel Office, Building 31, Room 2C39, 31 Center Drive MSC 2290, Bethesda, MD 20892-2290. (301) 496-6971. All application materials must be received by Ms. Dulovich by the closing date of June 15, 1998.

NIH is an Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### CHIEF SCIENTIST U.S. FOOD AND DRUG ADMINISTRATION ROCKVILLE, MARYLAND

The Chief Scientist of the FDA is a new position within the Agency. The person is an advocate for and facilitator of science at the highest level within the Agency. We are seeking an outstanding scientist of international reputation with exceptional scientific leadership abilities and demonstrated management skills to promote a high-quality intramural scientific organization within the FDA. The Chief Scientist and the Directors of the FDA Centers and Office of Regulatory Affairs are responsible for all aspects of the Agency's scientific and research activities, including personnel, programs, budget, and space. The Chief Sci entist has budget authority for specific science and research activities of broad importance throughout the Agency and oversees activities concerned with recruitment, promotion, professional development, and recognition of Agency scientific personnel, especially those in high-level research positions. The incumbent reports to the Deputy Commissioner for Operations and participates in the meetings of the Executive Committee of the FDA.

This is an excepted civil service managerial position in the Senior Biomedical Research Service with a starting salary in the range of \$130,000 to \$151,800. This position requires a doctoral degree in biomedicine or a related field. Experience with scientific research management is desirable. Relocation expenses will be paid in accordance with FDA policy.

To express your interest in this position, please call John Anderson, Telephone: 301-827-4179 for a complete copy of the vacancy announcement, or write to:

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

Applications must be received by July 10, 1998. FDA is an Equal Opportunity Employer. FDA is a smoke-free

GLOBAL CHANGE ECOLOGIST. National nonprofit organizațion seeks Staff Scientist to lead project to raise public and policymaker understanding of the pro-jected ecological impacts of climate change. S/he will also provide technical guidance to an initiative helping scientists communicate with the media and policymakers on major global change issues. Applicants should have expertise in global change ecology, an understanding of the public policy aspects of global environmental change, and a facility for communicating technical information to general audiences. Position requires Ph.D. in relevant discipline, project management experience, strong writing and public speaking skills, and occasional travel. Review of applications for this grant-funded position begins 19 June 1998; position available 1 August 1998. Send cover letter, curriculum vitae, and writing sample to: Director, Global Resources, Union of Concerned Scientists, 2 Brattle Square, Cambridge, MA 02238-9105. FAX: 617-864-9405. UCS is an Equal Opportunity Employer continually seeking to diversify its staff.

A non-tenured RESEARCH SCIENTIST position is open in experimental medium energy physics at the University of Virginia. Applicant must be able to work independently. Experience with CsI and Pb-glass calorimeters, practical knowledge in techniques of experimental intermediate energy physics (especially in neutral meson detection), Monte Carlo simulation of complex particle detector systems, fast nuclear electronics, data acquisition and analysis is essential. Applicant must have done original, creative, independent research in these areas. Send curriculum vitae and three names of references to: Prof. D. Pocanic, Department of Physics, University of Virginia, Charlottesville, VA 22901. University of Virginia is an Equal Opportunity Employer.

Human nutrition. The Department of Food Science and Nutrition, University of Minnesota, seeks a HUMAN NUTRITIONIST for a 12 month, tenure-track position as ASSISTANT PROFESSOR. See: website: http://fscn.che. umn.edu; FAX: 612-625-5272. The University of Minnesota is an Equal Opportunity Educator and Émployer.

#### **POSITIONS OPEN**

#### COLLECTION SCIENTIST YEAST GENETICS

The American Type Culture Collection, serving as one of the world's largest and most diverse repositories of biological materials, is seeking a highly qualified individ-ual to assume responsibility for the development and maintenance of the collection to include culture acquisition, characterization, authentication, preservation, maintenance, and distribution. Ph.D. in genetics or related scientific discipline and a minimum of two years of applied yeast genomics experience, or M.S. with eight years of experience required. Successful candidate will possess the ability to conceive, plan, and conduct independent research, computer analysis of results, and management of living genetic stocks.

Interested candidates should mail letter of interest and

résumé, including salary history, to:

American Type Culture Collection Attn: Human Resources Collection Scientist Yeast Genetics 10801 University Boulevard Manassas, VÁ 20110 FAX: 703-365-2735 Website: www.atcc.org

Equal Opportunity Employer/Minorities/Females/Disabled/

#### SENIOR RESEARCH SCIENTIST ADVANCED MEDICAL TECHNOLOGY U.S. Army Medical Research and Materiel Command Frederick, Maryland \$93,357 to \$125,900 Per Annum Commensurate With Experience

U.S. citizens who are nationally internationally recognized as authorities in the area of bioprocessing, especially in the development of physiological monitoring systems and/or computer modeling of physiological performance during periods of stress or fatigue, are invited to apply for subject position. The individual selected will be responsi-ble for conducting basic and applied biomedical research and computer modeling related to the development of models for military operational medicine and combat ca-

Applicants should have a Ph.D. in biomedical science, engineering, chemistry, or physics or equivalent doctoral degree related to the work of the position, or an equivalent combination of education and research experience.

Interested individuals should contact the AMC SES Office by writing to: The U.S. Army Materiel Command, ATTN: AMCPE-CS/Dora Harrigan, 5001 Eisenhower Avenue, Alexandria, VA 22333-0001. Telephone: 703-617-9415 for a complete application package. Applications must be postmarked by July 31, 1998, in order to receive consideration.

The Department of Army is an Equal Opportunity Employer and encourages applications from women and minority candidates.

#### STAFF FELLOW/VISITING SCIENTIST

The Laboratory of Neuropsychology at the National Institute of Mental Health is seeking a Staff Fellow/ Visiting Associate to conduct research on memory in patients who have sustained brain damage early in life. The work is to be performed at the Institute of Child Health, University College London Medical School, London, UK. The major focus of the research is on the effects of early damage to the hippocampal system. The work will involve designing and administering a wide variety of memory tests, carrying out structural and functional brain imaging with magnetic resonance techniques, and analyzing/correlating the behavioral and anatomical results. The period of appointment is from two to five years. Applicants must have a Ph.D. or an M.D. and should already have had two to four years of relevant postdoctoral experience, although an applicant with less experience will be considered if uniquely qualified. U.S. citizenship is not required. Candidates should send their curriculum vitae and names of three referenc es to: Mortimer Mishkin, Building 49, Room 1B80, 49 Convent Drive MSC #4415, NIH, Bethesda, MD 20892-4415. E-mail: mm@ln.nimh.nih.gov. NIH is an Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### BIOSENSOR SCIENTIST

The Center for Devices and Radiological Health, Food and Drug Administration, Rockville, Maryland, seeks to fill a GS-13-level permanent position in the area of biosensor development. The incumbent will perform laboratory research as a principal member of a team to develop and evaluate biosensor technology and its impact on the development of products regulated by the FDA. The incumbent should have a Ph.D. degree or equivalent with recent postdoctoral training in biochemistry, nucleic acid chemistry, or a related field. Specific experience and a record of accomplishment, especially in the development of the molecular recognition-signal generation component of biosensors are required. For example, this would include nucleic acids, enzymes, and/or antibodies and their complementary ligands/substrates/chemical mediators designed for electrical or optical signal development/amplification. Accomplishment should be supported by publications in peer-reviewed scientific journals over the last three years. Interested qualified persons should send their résumé and curriculum vitae, along with two or three recent relevant research publications to:

Dr. John J. Langone Division of Life Sciences

Division of Life Sciences

Center for Devices and Radiological Health/
Food and Drug Administration, HFZ-113

12709 Twinbrook Parkway Rockville, MD 20852

not later than July 1, 1998.

FDA is an Equal Employment Opportunity Employer. FDA is a smoke-free environment.

#### RESEARCH SPECIALIST

Experienced Research Specialist wanted for an exciting technical position with a Howard Hughes Medical Institute (HHMI) laboratory located at Children's Hospital and Harvard Medical School. We are seeking a bright, organized, motivated individual to participate in studies of experimental models of human blood diseases. Individual will oversee the management of various materials, generate knockout and transgenic lines, and analyze the resulting mutants. Challenging work environment with opportunities for professional advancement (e.g., learning new techniques, coauthoring scientific papers). HHMI offers competitive salaries and an excellent benefits package. Minimum qualifications include a Bachelor's degree and two years of relevant experience. Send résumés to: Nancy C. Andrews, M.D., Ph.D., Howard Hughes Medical Institute/Children's Hospital, Enders Building, Room 720, 320 Longwood Avenue, Boston, MA 02115. FAX: 617-734-6791; e-mail: andrews\_n@al.tch.harvard.edu; website: www.hhmi. org. No telephone calls please. Equal Opportunity Employer/ Minorities/Females/Disabled/Veterans.

#### MOLECULAR BIOLOGY TECHNICAL SPECIALIST

Perform techniques basic to molecular biology: DNA/ RNA isolation; creation of cDNA and genomic libraries; gene cloning and nucleotide sequencing; gel electrophoresis and blotting; immunohistochemistry. Will teach techniques to research students, maintain molecular biology support laboratories, and prepare class laboratories on techniques of molecular biology, cell biology, and biochemistry. Facility with mammalian cell culture is desirable. Twelve-month appointment. Minimum of appropriate Bachelor's degree with relevant experience; Master's degree preferred. Have three letters of recommendation forwarded to: Dr. Karl A. Wilson, Department of Biological Sciences, Binghamton University, Binghamton, NY 13902-6000. Closing date is June 26, 1998. Strongly committed to Affirmative Action. Recruitment conducted without regard to race, color, sex, religion, age, disability, marital status, sexual orientation, or national origin.

#### MEDICAL WRITERS

Leading New York City medical education/communications company has an immediate opening for Medical Writers. Familiarity with development of biological/biomedical sciences manuscripts essential. Ph.D. or advanced degree in the biological sciences preferred. The ability to write clearly and concisely is essential. The candidate will be expected to work on his/her own initiative, interface with physicians, clients, and program directors. Some travel may be required. Please send résumé to: Christian Reboulleau, Ph.D., Health Science Communications, Inc., 130 Fifth Avenue, 6th Floor, New York, NY



#### **Director of Biomolecular Structure Program** University of Colorado Health Sciences Center **School of Medicine** School of Pharmacy

## National Jewish Medical and Research Center

A new Program in Biomolecular Structure has been established by the faculty of University of Colorado Health Sciences Center to foster the use of state-of-the-art structural methods in the study of macromolecules of biological importance. Graduate student training will be a central focus for faculty members participating in this program.

Applications from candidates who would be interested in directing the Program in Biomolecular Structure and lead the graduate training program are being solicited. Highly qualified candidates are being sought who have international reputations for excellence in one or more of the areas of structural biology.

A competitive recruitment package for the successful candidate has been established to support his/her research program, the graduate training program, and four state-of-the-art technology centers in X-ray crystallography, NMR spectroscopy, mass spectroscopy, and computational methods. Academic appointment will be made as Professor in a basic science department in the School of Medicine.

Interested candidates should send a curriculum vitae by August 1, 1998, to: Dr. Robert C. Murphy, Chair of the Search Committee, Department of Pharmacology, Box C236, 4200 E. Ninth Ave., University of Colorado Health Sciences Center, Denver, CO 80262. The University of Colorado and National Jewish Medical and Research Center are Affirmative Action/Equal Opportunity Employers. Women and minorities are encouraged to apply.



#### The Division of Life Sciences in the College of Letters and Science at UCLA

announces a search for a distinguished scholar and educator to assume the position of Chair of the former Department of Biology (to be renamed the Department of Organismic Biology, Ecology, and Evolution). We seek a mid-career or senior-level scientist with a distinguished record of productivity, a strong desire to maintain an active research program, and a commitment to undergraduate education. The department has 23 faculty, with strengths ranging from cellular to evolutionary biology of both plants and animals. The new Chair will be expected to define and participate in the expansion of this faculty over the next several years, in accord with its existing strengths. Resources within the department include the Marine Science Center, the Mildred E. Mathias Botanical Garden, the Donald E. Dickey Collection of Birds and Mammals, and Stunt Ranch Reserve (in the UC National Reserves System). Significant interactions outside the department occur with the Center for the Study of Evolution and the Origin of Life and the newly created Institute of the Environment. The Division already has in place a strong administrative structure to assist the Chair in dayto-day operation of the Department, freeing him or her to maintain a strong research program.

Individuals interested in this position should send their curriculum vitae and names of three potential referees by September 1, 1998, to: Chair, Evolutionary Biologist Search Committee, 621 South Circle Drive, University of California, Los Angeles, CA 90095-1606, USA.

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#### POSITIONS OPEN

PRODUCT SPECIALIST. Newtown, Connecticut. Provide technical support related to proper use and proper care of centrifuge product line; troubleshoot customer problems; support sales efforts through seminars and presentations exhibiting proper use of products and proper care of products; train sales representatives in product uses; prepare technical literature and review technical literature; liaise with marketing and research and development for new product development; perform testing of new products; provide start-up application training and process development services for customers. Required: Ph.D. in analytical biochemistry or analytical chemistry and two years of experience in job offered or two years as product development specialist. Experience must reflect in-depth scientific and clinical research training servicing customer/market segments for centrifuge products; experience with development of practical methodologies for centrifugal separation; publication of technical literature for customers and field sales force and technical presentation in public seminars in support of sales and marketing; experience in product and application training to field sales force and customers; experience with start-up training to U.S. biotechnology industrial customers; 40 hours per week; 8:00 to 5:00; \$65,940 per year. Send résumé and cover letter to: Attn: J.O. #3212716, Program Support—3rd Floor, Connecticut Department of Labor, 200 Folly Brook Boulevard, Wethersfield, CT 06109.

#### BIOCATALYSIS

RESEARCH CHEMIST or BIOLOGIST, ZP-1320/401-III (\$39,270 to 61,432) or ZP-1320/401-IV (\$55,969 to 85,978). The Biotechnology Division of the National Institute of Standards and Technology (NIST), Department of Commerce is actively seeking a Research Chemist, Molecular Biologist, or Enzymologist for a two-year term appointment. Applicants should have background in molecular or plant biology, biochemistry, or biochemical engineering that is appropriate for work on standards and/or measurements related to the biosynthesis of industrially important compounds. Interested applicants should Telephone: 301-926-4851, or consult the NIST website: www.nist.gov for more detailed position requirements and a copy of the vacancy announcement before submitting an application. Announcement Number: NIST/98-1611/CAH. Closing date: Applications must be postmarked by June 26, 1998 in order to receive consideration. Send applications to: National Institute of Standards and Techology, Administrative Building, Room A-123, Office of Human Resources Management, Attn: NIST/98-1611/ CAH, Gaithersburg, MD 20899. The Department of Commerce/NIST is an Equal Employment/Affirmative Action Employer. U.S. citizenship is required.

#### CALIFORNIA START-UP OPPORTUNITY

Well-funded new company based in San Francisco Bay area exploring revolutionary approaches to the diagnosis and treatment of cancer.

#### SENIOR STAFF SCIENTIST

Immediate position for an experienced person with strong industrial background in commercializing novel diagnostic and therapeutic immunochemistry technologies. Hands-on expertise in immunochemistry, immunohistochemistry, biochemistry, molecular biology, and cell biology. Ideal candidate would have three to five years of experience in commercial laboratory developing immunochemistry-based products, having participated in taking such products from concept to clinical use. Send curriculum vitae and references to:

Susan Love, M.D. c/o Shannon Holt 3210-B Alpine Road Portola Valley, CA 94028 FAX: 650-851-3986 E-mail: shannonholt@earthlink.net

RESEARCH DIRECTOR position at University of Minnesota-Duluth in new Clinical Research Institute. Ph.D., Pharm. D., or equivalent required in genetics, public health, epidemiology, or related area. Requires three to five years of independent research experience. Key responsibility: conducting clinical research with emphasis in areas of cancer, lung or heart disease. Three-year appointment renewed annually. Compensation package plus relocation. Confidential inquiries to: Susan Gross, Telephone: 800-678-7858, ext. 3458. The University of Minnesota is an Equal Opportunity Employer and Educator.

#### **POSITIONS OPEN**



POSTDOCTORAL POSITION available immediately to study thiazolidinedione-regulated genes in vascular smooth muscle cells. Candidates should have a background in differential display/RDA, regulation of transcription by steroid hormone receptors, or yeast/mammalian cell two-hybrid systems. Send résumé to: Dr. Ronald E. Law and Dr. Willa A. Hsueh, UCLA 900 Veteran Avenue, Suite 24-130, Box 957073, Los Angeles, CA 90095-7073.

#### POSTDOCTORAL POSITIONS AT SANDIA NATIONAL LABORATORIES

The Chemical and Radiation Detection Laboratory at Sandia National Laboratories in Livermore, California, is a multidisciplinary state-of-the-art facility established to develop advanced sensing methods for trace chemical and biological compounds. By combining Sandia's expertise in chemistry, physics, biology, and engineering, solutions are being developed for environmental, forensic, defense, and public safety needs that face the nation. Positions are now available for Postdoctoral Associates to work on a significant research program directed at advancing chemical sensing techniques. Areas of research include development/fabrication of Microscale Total Analytical Systems (µ-TAS); capillary-based chemical separation (electrophoresis; electrochromatography; affinity chromatography); chemical detection by optical, electrochemical, and mass spectrometric methods; and study of microfluidic processes.

Desirable applicants will have a Ph.D. with a broadbased background and extensive knowledge in one or more of the following areas: chemistry (analytical, physibiological/protein), fabrication of microsystems (MEMS), optics, physics, or materials science. Creative, self-motivated candidates with excellent academic and research qualifications who enjoy working in a team-oriented environment should submit a résumé, publication list, and reference list to:

Sandia National Laboratories c/o Anna Isham, MS 9111 Human Resources Department—CA0047 P.O. Box 969 Livermore, CA 94551-0969

U.S. citizenship is normally required. Sandia National Laboratories is an Equal Opportunity Employer/Affirmative Action Employer.

#### STAFF FELLOW/POSTDOCTORAL POSITIONS IN NEUROSCIENCE National Institute of Mental Health National Institutes of Health

A Staff Fellow and a Postdoctoral Fellow are being recruited to conduct research in the Section on Molecular Neurobiology of the Biological Psychiatry Branch, NIMH, NIH at Bethesda, Maryland.

Investigators with a strong background in molecular neuroscience will be considered, with particular interest in the areas of neuronal apoptosis and/or neuroprotection as well as mechanisms of actions of lithium. One proposed study is based on our recent finding that GAPDH overexpression and nuclear translocation is involved in neuronal apoptosis and implicated in neurodegenerative diseases. The other is based on our recent report that lithium is a robust neuroprotective agent against excitotoxicity in models of neuronal cultures (*PNAS* 95:2652, 1998) and experimental animals (*NeuroReport*, in press). Excellent research facilities and environment are available with a competitive salary.

Applicants should submit a curriculum vitae, names and addresses of three references, and no more than three reprints from refereed journals by July 15, 1998, to:

De-Maw Chuang, Ph.D. Chief, Section of Molecular Neurobiology Biological Psychiatry Branch National Institute of Mental Health National Institutes of Health Building 10, Room 3N-212 10 Center Drive MSC 1272 Bethesda, MD 20892-1272 Telephone: 301-496-4915 FAX: 301-480-9290

The National Institute of Mental Health is an Equal Opportunity Employer.

#### POSITIONS OPEN

#### POSTDOCTORAL POSITIONS AT THE BAYLOR COLLEGE OF MEDICINE Texas Children's Cancer Center Shell Center for Gene Therapy

Postdoctoral positions available at the Baylor College of Medicine-Texas Children's Cancer Center/Center for Gene Therapy (TCCC/SCGT). The TCCC/SCGT is an active group of researchers who study a diverse array of disciplines from basic cancer biology to gene therapy. The laboratories are all newly opened and equipped with stateof-the-art equipment. For the two positions detailed below, please send a curriculum vitae and three letters of reference to: Texas Children's Cancer Center-MC3-3320; 6621 Fannin Street, Houston, TX 77030. FAX: 713-770-4202.

Postdoctoral position in mammalian cell cycle and DNA damage control. A Postdoctoral position is available immediately to carry out funded research on cell cycle regulation and the cellular response to DNA damage. Applicants should preferably have experience in yeast genetics or comparative genomics. Please submit information to: Sharon Plon, M.D., Ph.D., e-mail: splon@bcm.tmc.edu.

Postdoctoral position in hematopoietic stem cell gene therapy. Postdoctoral position available immediately for study of murine and human hematopoietic stem cells: basic biology and gene therapy. Applicant should be highly motivated with a strong background in molecular biology. Please submit information to: Margaret Goodell, Ph.D., e-mail: goodell@bcm.tmc.edu.

Baylor College of Medicine is an Equal Opportunity / Affirmative Action/Equal Access Employer.

POSTDOCTORAL FELLOWSHIPS for training in immunology and virology at the University of Massachusetts Medical Center. Cellular and molecular immunolo-Sets Medical Central and Molecular Infinition of the Stephen J. Doxsey, Ph.D.; Rachel M. Gerstein, Ph.D.; Carol Miller-Graziano, Ph.D.; Judith Luber-Narod, Ph.D.; Peter E. Newburger, M.D.; Kenneth L. Rock, M.D.; Janet Stavnezer, Ph.D.; Gyongyi Szabo, M.D., Ph.D.; Robert T. Woodland, Ph.D. Vi-Herrmann, Ph.D.; RuthAnn Hesselton, D.V.M.; Shan Lu, M.D., Ph.D.; Katherine Luzuriaga, M.D.; Alan L. Rothman, M.D.; John L. Sullivan, M.D.; Raymond M. Welsh, Ph.D. Molecular virology: Timothy F. Kowalik, Ph.D.; Trudy G. Morrison, Ph.D.; Carel Mulder, D.Phil.; Ronald M. Iorio, Ph.D.; Mario Stevenson, Ph.D. Experimental diabetes: Dale L. Greiner, Ph.D.; Arthur A. Like, M.D.; Aldo A. Rossini, M.D. Candidates interested in joining this active, multidisciplinary, NIH-supported training program should send a curriculum vitae, the names of three references, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training to: Ms. Beryl Edney, Department of Pathology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655. The University of Massachusetts Medical Center is an Affirmative Action Employer.

POSTDOCTORAL POSITION in circadian rhythm neurobiology is currently available to use electrophysiological and immunocytochemical techniques to investigate circadian clock regulation of neurotransmitter signal transduction in the suprachiasmatic nucleus. Ph.D. or equivalent degree is required. Experience with brain slice recordings or circadian rhythm studies are desirable. Send curriculum vitae, statement of research interests, and the names of two references to: Dr. Charles N. Allen, Center for Research on Occupational and Environmental Toxicology, L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. E-mail: allenc@ohsu.edu. Affirmative Action/Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS available at the MIT-affiliated Whitehead Institute to study hematopoiesis and ES cell biology. Focus will be on expression analysis using microarrays and expression cloning to identify novel factors. Please send curriculum vitae and three references to:

> Dr. George Daley, M.D., Ph.D. Whitehead Institute 9 Cambridge Center Cambridge, MA 02142 FAX: 617-258-5213 E-mail: daley@wi.mit.edu

# Research Fellowships in the Environmental Sciences

The Natural Environment Research Council funds a programme of fellowships to enable talented environmental scientists a greater opportunity to develop and maintain an international reputation on environmental research.

The NERC scheme provides a progression through four career stages at Postdoctoral, Advanced, Senior and Professorial level, and applications for the 1998 competition are invited from candidates of exceptional calibre and potential. The following fellowships are available:

#### Postdoctoral Research Fellowships

Up to five years of support for outstanding postdoctoral scientists seeking to make a career transition from postdoctoral training to becoming independent environmental scientists.

#### **Advanced Research Fellowships**

Awarded for up to five years (with a possible extension of a further five years) to exceptional research workers of proven ability with a high potential to develop into team leaders of international standing and who do not hold tenured posts at the time of application.

#### Senior Research Fellowships

Support for five to ten years for selected environmental scientists of exceptional ability who have an established reputation and who have won, and are likely to continue to win, NERC or other Research Grant support on a continuing basis.

#### **Professorial Fellowships**

Support and long-term continuity for proven researchers with well-established international reputations who wish to devote their working time to research.

All NERC fellowships include a generous recurrent grant to support items of equipment, consumables, conference attendance and UK fieldwork, and additional funding may be awarded.

All applications must carry the full support of the host institution, which will be expected to act as the fellow's employer.

As part of NERC's commitment to promoting equal opportunities, all fellowships may be held by suitably qualified candidates on a full or part-time basis, subject to the agreement of the host institution.

For the 1998 competition NERC is particularly keen to attract applications in the following areas:

- at the Postdoctoral and Advanced levels, from scientists in areas of applied mathematics, physics or other strongly quantitative disciplines wishing to develop a career in environmental science
- at the Professorial level, from scientists of international standing wishing to promote new research foci and/or from UK scientists currently employed overseas wishing to return to the UK.

Prospective applicants should first consult the NERC fellowship booklet. The booklet and application forms are available on the NERC website at: http://www.nerc.ac.uk/awards/forms.htm

Further information can be found on the NERC website, or by contacting the NERC Postgraduate Support Section, e-mail: p.a.vernon@nerc.ac.uk Tel: 01793 411508/1792/1562. Closing date for receipt of applications is 30th September 1998.





#### **EUROPEAN OPPORTUNITIES**



#### Department of Haematology Medical Biotechnology

Two posts are available immediately in the field of technology development for detection of infectious diseases. The posts are initially tenable for one year with the possibility of being further extended upon satisfactory performance.

#### Research Associate

The candidate must have a PhD in chemistry or biochemistry with more than 5 years experience in organic synthesis, nucleic acid synthesis and modification, HPLC, NMR and mass spectrometry. The salary will be from £17,606 to £21,016 pa according to age and experience.

#### Postdoctoral Research Fellow

The candidate should possess a PhD degree in biology or chemistry and has working experience in the fields such as nucleic acid hybridisation and detection; protein conjugation, purification and characterisation; monoclonal antibody and immunoassay development; tissue culture; cloning and expression of antigens. The salary will be from £15,159 to £20,103 pa according to age and experience.

Applications, including curriculum vitae and the names of three referees, should be sent to: Joanne Garner, Project/Research Administrator, Department of Haematology, University of Cambridge, Long Road, Cambridge CB2 2PT. Closing date for these posts is 19 June 1998, Fax: +44 (0) 1223 242044.

The University is an equal opportunities employer.

# EMINENT SCHOLAR/RICHARDSON CHAIR ENDOWEDPROFESSORSHIP-NEUROBIOLOGY/NEUROPROTECTION

#### University of Florida College of Medicine Department of Ophthalmology

Applications are invited for a full-time position for a prestigious Endowed Chair in the field of Neurobiology/Neuroprotection. Preference will be given to interest in neuroprotection related to ocular disease, or to developing such a program. Candidates must hold a Ph.D. and/or M.D., have obtained, or be eligible for professorial rank, and demonstrate a superlative record of accomplishment in an area of neurobiology. Researchers who are not currently members of a Department of Ophthalmology are encouraged to apply. The successful candidate will have a primary appointment in the Department of Ophthalmology with a joint appointment to the appropriate basic science department in the University of Florida. Research space and start-up funds will be provided for establishing a new laboratory.

Deadline for receipt of applications will be July 31, 1998, to start around April, 1999.

Candidates should submit a curriculum vitae, a statement of research objectives, and the names of three referees to:

#### Search Committee

William Hauswirth, Ph.D., and Paul Hargrave, Ph.D., co-chairs, Department of Ophthalmology College of Medicine, Box 100284 JHMHC University of Florida, Gainesville, FL 32610-0284.

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#### POSITIONS OPEN

#### POSTDOCTORAL RESEARCH FELLOW METABOLISM BRANCH NATIONAL CANCER INSTITUTE

The Metabolism Branch, NCI, is offering a Postdoctoral Research Fellow position to an individual interested in joining the laboratory of **Dr. Yutaka Tagaya** and **Dr. Thomas Waldmann** that focuses on the molecular genetic, biochemical, and functional roles played by cytokines and their receptors in the control of the immune re sponse. Special emphasis is placed on the cytokine IL-15 codiscovered by the laboratory. Particular research interests include (1) characterization of the multifaceted regulatory control of IL-15 expression with special emphasis on the regulation of IL-15 mRNA translation and cytokine secretion; (2) definition of the diverse receptor and signaling pathways used by IL-15 including molecular cloning of IL-15RX, the type 2 IL-15 recepter expressed on mast cells; (3) characterization of the unique functions of IL-15 using the IL-15-deficient mice produced by gene targeting in the laboratory. We seek candidates that are bright and motivated. While experience in molecular biology and an understanding of both immunology and cell biology would be preferred, they are not essential. The position is available immediately. Interested candidates should send a curriculum vitae, bibliography, as well as a list of three references to: Ms. Jean Decker, Building 10, Room 4N115, 10 Center Drive MSC 1374, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

#### UNIVERSITY OF WASHINGTON MEDICAL SCHOOL MARKEY MOLECULAR MEDICINE CENTER

Three **POSTDOCTORAL POSITIONS** are available to work with Investigators of the Center in the following projects. (1) Use of mouse knockout approaches in the functional analysis of transcriptional factors. (2) Application of somatic cell genetics and transgenic mice to the study of the control of globin gene switching. (3) Cloning of regulatory elements that function as locus control regions.

Applicants should have a Ph.D. or M.D., or equivalent degree with training in molecular biology, cell biology, or biochemistry. Salary commensurate with experience. Send curriculum vitae and names of three references to:

George Stamatoyannopoulos, M.D., Dr.Sci. Director, Markey Molecular Medicine Center Box 357720 University of Washington Seattle, WA 98195 FAX: 206-543-3050 E-mail: gstam@u.washington.edu

The University is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL POSITIONS IN PRIMATE NEUROSCIENCE UNIVERSITY OF CALIFORNIA, DAVIS

Funded Postdoctoral position available for Electrophysiologist to carry out electrophysiological and neuro-anatomical analyses of the nonhuman primate *in vitro* hippocampal or amygdala slice preparation. The successful applicant should have experience with *in vitro* slice experiments in any species; familiarity with infrared microscopy and whole-cell voltage-clamp would be valuable. A second position is available to study the neuroanatomy of the primate amygdala or hippocampal formation. See our website: http://neuroscience.ucdavis.edu/faculty/amaral/ for further details. Send curriculum vitae, letter of interest, and three letters of reference to:

David G. Amaral, Ph.D.
The Center for Neuroscience
University of California, Davis
1544 Newton Court
Davis, CA 95616.

E-mail: dgamaral@ucdavis.edu

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

MOLECULAR GENETICIST (SENIOR RESEARCH SPECIALIST) needed to perform mammalian tissue cultures and genetic research. Salary \$33,586 per year, 40 hours per week, require B.S. degree in biology and four years of experience in genetic research, including mammalian tissue culture methods, mammalian cell genetics, and recombinant DNA technology. Send résumé to: Department of Workforce Services, Employment Development Division, Attn: Pat Redington, Job Order No. 3060584, 140 East 300 South, 1st Floor, Salt Lake City, UT 84111.

#### POSITIONS OPEN

POSTDOCTORATE wanted to study heart development. U.S. citizen or green card. Send curriculum vitae, names of three references to: Dr. S. Evans, Department of Medicine, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093. FAX: 619-534-8081; e-mail: syevans@ucsd.edu.

The Division of Hematology at Duke University Medical Center, Durham, North Carolina, has several POST-DOCTORAL RESEARCH FELLOWSHIP positions available for research in the areas of sickle cell anemia, transfusion, coagulation, and thrombosis. Candidates must be U.S. citizens or permanent residents and be eligible for at least two years of funding on NIH/NRSA training grants. Available positions:

Charles Greenberg, M.D.: role of coagulation in sickle cell anemia.

William Kane, M.D., Ph.D.: structure/function relationships of coagulation factor V.
Thomas Ortel, M.D., Ph.D.: coagulation factor VIII

**Thomas Ortel, M.D., Ph.D.:** coagulation factor VIII inhibitors; antiphospholipid antibodies.

Marilyn Telen, M.D.: adhesion molecules in sickle cell anemia, immunology of transfusion reactions.

J. Brice Weinberg, M.D.: role on NO in malaria; role of NO in inflammation.

Applicants should contact: Marilyn Telen, M.D., Professor and Chief, Division of Hematology, Box 2615, Duke University Medical Center, Durham, NC 27710. FAX: 919-681-7688; e-mail: telen002@mc.duke.edu.

Duke University is an Equal Opportunity Employer.

#### POSTDOCTORAL LUNG CHEMISTRY AND BIOLOGY

Applications are invited for Postdoctoral positions in the University of California, Davis (UCD) Center for Comparative Lung Biology and Medicine (CCLBM) to work with Dr. Albert van der Vliet, Dr. Barry Halliwell, and Dr. Carroll E. Cross studying the effects of environmental pollutants (including tobacco smoke) and endogenous oxidants (especially nitrogen oxides) on lung cell biology. Join a multidisciplinary team which combines free radical chemistry, cell biology, and analytical chemistry. Applicants should have a relevant Ph.D. and preferably have expertise in one or more of the following: cell culture, immunochemistry, gene transfection and transgenics, and analytical techniques (HPLC, GC/MS). Collaborative research opportunities exist with other UCD CCLBM members and with Dr. Halliwell's Kings College London Laboratory. Résumé and names of references should be forwarded to: C. E. Cross, University of California, Davis Lung Biology Center, Room 1121, Surge I Annex, University of California, Davis, Davis, CA 95616.

#### POSTDOCTORAL POSITION AQUATIC ECOLOGY OR GEOCHEMISTRY

The U.S. Geological Survey is seeking candidates for a Postdoctoral Associate (GS-1315-11 Hydrologist) in Menlo Park, California to direct a study of the Sacramento-San Joaquin River Delta. Objective of the study is to compare the quantity, quality, and utilization pathways of the organic matter that supports secondary production in different aquatic habitats. Applicants should be U.S. citizens with: (1) broad training in aquatic science (emphasis on biology of lower trophic levels or organic geochemistry); (2) experience in field sampling, analysis of complex data sets, and skills with diverse instrumentation; and (3) abilities to direct a focused project and contribute as a member of a large team. To apply, contact: The Office of Personnel Management, Telephone: 206-553-0888; website: http://www. usajobs.opm.gov (Vacancy #FW0604). For further information contact: Dr. James Cloern, e-mail: jecloern@ usgs.gov. The U.S. Geological Survey is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION is available to determine X-ray crystal structures of metal-requiring enzymes in critical biosynthetic pathways (e.g., see: PNAS 93:13589, 1996; Nature 383:554, 1996; Science 277:1820, 1997). Proficiency in protein biochemistry and crystallography required. Send curriculum vitae and the names of three references to: Prof. David W. Christianson, Roy and Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323 by June 30, 1998.

#### **POSITIONS OPEN**

#### POSTDOCTORAL POSITIONS IN MOLECULAR IMMUNOLOGY AND VIROLOGY

Three Postdoctoral positions are available immediately to investigate antiviral CTL development using MHC-tetramer technology or viral evasion strategies focused on regulation of cellular apoptotic mechanisms. Experience in cellular immunology, molecular biology, or signal transduction desirable. Preference will be given to U.S. citizens and pennanent residents. Send curriculum vitae and names of three references to: Dr. John Altman or Dr. Linda Gooding, Department of Microbiology and Immunology, Rollins Research Center, Emory University School of Medicine, Atlanta, GA 30322. E-mail: altman@microbio.emory.edu, gooding@microbio.emory.edu. Equal Employment Opportunity.

A POSTDOCTORAL RESEARCH ASSOCIATE position is available immediately to study relationships between oxidative stress and the ubiquitin-dependent pathway. Ph.D.-trained in biochemistry, molecular biology, or cell biology is required. Ability to write well in English is a plus. Interested parties should send a curriculum vitae with a list of laboratory techniques you know and three letters of reference to:

Dr. Allen Taylor
Laboratory for Nutrition and Vision Research
USDA, Human Nutrition Research Center on Aging
at Tufts University
711 Washington Street
Boston, MA 02111
FAX: 617-556-3344
E-mail: taylor\_c1@hnrc.tufts.edu

DIRECTOR OF HUSBANDRY OPERATIONS at The Monterey Bay Aquarium. Directs all aspects of the Husbandry Operations Division and is responsible for maintaining the aquarium's leadership position in live exhibit innovation and quality. Participates in institution-wide short- and long-term planning and decision making. Requirements include Master's degree in the life sciences or equivalent experience; five or more years of leadership and management experience in public aquarium setting; thorough understanding of and expertise in marine animal husbandry, exhibit life support systems, and the biology of marine and freshwater organisms. Submit letter of interest, résumé, salary history, and names of three or more references to: Human Resources, Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940. Deadline for application is June 15, 1998.

## POSTDOCTORAL RESEARCH ASSOCIATE IN GENE THERAPY

The UCLA School of Medicine has a Postdoctoral position available to develop and evaluate viral constructs for human prostate cancer gene therapy. Methods using adenoviral vectors to mediate prostate-specific gene expression are currently being investigated. Must have a Ph.D. and working experience in molecular biology and virology. Send statement of research interest, curriculum vitae, and three letters of recommendation to: Arie Belldegrun, M.D., Director of Urologic Oncology, Department of Urology, Box 951738, UCLA School of Medicine, Los Angeles, CA 90095-1738. FAX: 310-206-5343. UCLA is an Equal Opportunity Employer.

#### PANORAMA RESEARCH INC.

San Francisco Bay-area biotechnology company is seeking a SENIOR MEDICINAL CHEMIST with extensive experience in the chemical synthesis and biological evaluations of CC-1065 anticancer drugs and memantine, including analogs thereof. Supervisory experience, as well as a strong background in both synthetic chemistry and biological science, especially in the areas of anticancer drugs and neuroprotective agents, is required. Salary: \$72,000 per year. Send application to: Dr. James Larrick, 2462 Wyandotte Street, Mountain View, CA 94043 by July 1, 1998.

POSTDOCTORAL POSITION available immediately to study protein-protein interactions mediated by the PDZ-containing protein INAD in *Drosophila* photoreceptors. A Ph.D. in molecular biology, biochemistry, and electrophysiology is desired. Applicants should send curriculum vitae and a brief description of research experience to: Dr. Bih-Hwa Shieh, Department of Pharmacology, Vanderbilt University, Nashville, TN 37232. E-mail: shiehb@ctrvax.vanderbilt.edu. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer*.

#### POSITIONS OPEN

#### POSTDOCTORAL POSITION IN THE DEVELOPMENTAL BIOLOGY OF THE NEURAL CREST

Seeking a highly motivated individual to participate in research analyzing the response of avian neural crest cells to growth factors and other signaling molecules (see: Varley et al., Dev. Biol. 196:107–118, 1998). Experience in cell culture and microdissection required. Background in molecular biology desirable.

Please send curriculum vitae to: Dr. Gerald Maxwell, Department of Anatomy, University of Connecticut Health Center, Room L-4000, 263 Farmington Avenue, Farmington, CT 06030-3405. FAX: 860-679-1274.

## POSTDOCTORAL POSITION TRANSPLANTATION IMMUNOLOGY

Position available June 1, 1998, to investigate the immunoregulation of liver cell injury in allogeneic transplantation models. Candidate should have a strong background in molecular biology (quantitative RT-PCR, gene cloning, nucleotide sequence analysis, gene transfection, Northern blots) and in vitro cellular immunology techniques, and experience with animal models. Please send a cover letter, résumé, and names, addresses, and telephone numbers of three references to: Dr. Charles Howell, University of Maryland, 22 South Greene Street, Room N3W130, Baltimore, MD 21201. FAX: 410-328-1897. Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study voltage-gated Na channels. Investigation into biophysical properties of Na channels using ionic current and gating current measurements on cultured mammalian cells. See website: www.cvrti.utah.edu. Please mail or e-mail curriculum vitae to: Dr. M. Sheets, Cardiovascular Research and Training Institute, University of Utah, 95 S 2000 E, Salt Lake City, UT 84112-5000. E-mail: michael@cvrti.utah.edu. University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to known disabilities of applicants and employees.

POSTDOCTORAL POSITION to study glycosylation in mammalian cells and nucleotide sugar transport systems. Ph.D. in biochemistry with strong background in protein biochemistry required; experience with membrane proteins, oligosaccharide analysis, cell culture, and/or molecular biology techniques desirable. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Barbara Criscuolo Waldman, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208. E-mail: bwaldman@biol.sc.edu.

POSTDOCTORAL POSITION for Ph.D.-M.D. to study neural gene expression and regulation mechanisms from gene transcription through functional protein. Requires experience in molecular biology, biochemistry, neurosciences, and in vitro and in vivo methodologies. Salary commensurate with experience. Send curriculum vitae and three letters of reference to: Dona Lee Wong, Ph.D., Nancy Pritzker Laboratory, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, MSLS Building, P. 106, Stanford, CA 94305-5485.

University of Pennsylvania POSTDOCTORAL POSITION available immediately to study cell cycle proteins that regulate chromosome segregation. The applicant should have a Ph.D. and experience in biochemistry and molecular biology. Send curriculum vitae, brief statement of research interests, and three letters of reference to: Dr. Sandra Holloway, Department of Genetics, University of Pennsylvania School of Medicine, 475 CRB, Philadelphia, PA 19104-6145. FAX: 215-573-5892. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available for exploring molecular mechanisms of T cell activation, survival, and memory using transgenic/knockout animal models. A strong background in molecular biology and/or immunology is preferred. Send curriculum vitae, statement of research interest, and names of three references to: Jianzhu Chen, Center for Cancer Research, MIT, E17-128, 40 Ames Street, Cambridge, MA 02139. E-mail: jchen@mit.edu.

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POSTDOCTORAL POSITION available to study regulation of ion channel gene expression and signal transduction in the auditory sensory epithelium (Neuron 19:951, 1077, 1997). Solid quantitative skills and experience in molecular biology, biochemistry, or cell biology required. NIH-funded position. Send curriculum vitae and three references to: Dr. J. Carl Oberholtzer, Room 266 John Morgan Building, Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. FAX: 215-573-7738; e-mail: oberholt@mail.med.upenn.edu.

POSTDOCTORAL FELLOWSHIP. Pulmonary and critical care. A Postdoctoral Fellowship to study hemodynamic effects of sleep apnea is available from July 1, 1998, at Long Island Jewish Medical Center. Prior experience in cardiopulmonary physiology and doctoral degree required. Stipend \$35,000 to \$45,000 per year, depending on experience. Send credentials to: S. M. Scharf, M.D., Ph.D., Pulmonary Division, Long Island Jewish Medical Center, 270-05 76th Avenue, New Hyde Park, NY 11040. FAX: 718-470-1035. North Shore-Long Island Jewish Health System: An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to study (1) the role of vascular endothelial cell growth factor (VEGF) and VEGF/receptor signaling in tumor angiogenesis; (2) apoptosis induced by signaling through members of the TNF/NGF receptor superfamily. Send résumé and names and telephone and FAX numbers of three references to: Dr. David B. Donner, Walther Oncology Center, Indiana University School of Medicine, 1044 West Walnut Street, Room 302, Indianapolis, IN 46202. FAX: 317-274-7592; e-mail: ddonner@iupui.edu.

POSTDOCTORAL POSITIONS are available immediately to study the intracellular signals involved in lymphocyte development and function. Projects involve generation of mutant mice using classic and conditional gene targeting technology. Recent Ph.D. with strong background in immunology, biochemistry, or molecular biology is required. Send applications to: Dr. Hua Gu, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, 12441 Parklawn Drive, Rockville, MD 20852. FAX: 301-594-2522; e-mail: hgu@pop.niaid.nih.gov.

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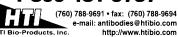
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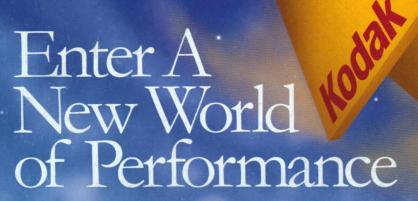


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