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LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad:

Send your ad text to: e-mail: science_classifieds@aaas.org; fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. SCIENCE will edit and typeset ads according to SCIENCE style. **SCIENCE cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

Estimates: SCIENCE will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Eric Banks, Telephone: (202) 326-6555; or Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: science_classifieds@aaas.org

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

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

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

Ads from Outside the U.S.: A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

SCIENCE Professional Network: Unless otherwise instructed, all classified advertisements submitted for publication in SCIENCE are automatically posted on SCIENCE's online classified advertising service, SCIENCE Professional Network, at no additional charge. www.sciencemag.org

Mail, FAX or E-mail materials to:
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SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY Penn State University College of Medicine

Applications are invited for two tenure-track positions to begin on or after September 1, 1998. We seek individuals who have demonstrated excellence in the areas of structure/function of proteins, focusing on eukaryotic macromolecules of physiological importance. Examples of preferred research emphasis are macromolecular biosynthesis, targeting, processing, and assembly; protein folding; signal transduction; molecular immunology or recognition; homo- and hetero-interactions of proteins; protein-nucleic acid, -carbohydrate, and -drug interactions; transcriptional and posttranslational regulation of enzyme activity. Technologies of molecular biology, cell biology and genetics, physical chemistry, and computer modeling are all appropriate for the position. Preference will be given to applicants at the **ASSISTANT PROFESSOR** level although outstanding individuals at the **ASSOCIATE PROFESSOR** level will be considered. Applicants must have a Ph.D., M.D.-Ph.D., or M.D. and postdoctoral research experience. Successful applicants are expected to establish an independent, extramurally funded research program and to participate in the education of graduate and medical students and programs of the Life Science Consortium of Penn State University. Applicants should send a curriculum vitae, a synopsis of research plans, and the names and addresses of three individuals who will provide letters of reference to: **Chair, Search Committee, Department of Biochemistry and Molecular Biology H171, College of Medicine, The Pennsylvania State University, P.O. Box 850W, Hershey, PA 17033.** Applications should be submitted by June 1, 1998.

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

CLINICAL CHEMISTRY FACULTY POSITION

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Pathology and Laboratory Medicine at the University of California, Los Angeles, invites applications for a tenure-track faculty position at the level of Assistant/Associate Professor. The Division of Laboratory Medicine is seeking an individual with primary interest in chemical pathology (endocrinology, general chemistry, or toxicology). The candidate should have an M.D. or Ph.D. and should be Board-certified in clinical pathology or have equivalent clinical pathology experience. The candidate will be expected to carry out an independent research program and preference will be given to individuals with proven capacity to attract extramural funding. There will be active participation in the scientific, clinical, and teaching responsibilities of the clinical chemistry section.

Qualified candidates should send curriculum vitae, statement of research interest, and a list of three references to: **David A. Bruckner, Sc.D., Search Committee Chair, Department of Pathology and Laboratory Medicine, UCLA Medical Center 171315, 10833 LeConte Avenue, Los Angeles, CA 90095-1713.**

University of California is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

The Cardiovascular Research Institute in the Department of Surgery at the University of Louisville has a full-time, tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level effective July 1, 1998. The successful candidate will join a multidisciplinary team with expertise in surgery, physiology, biomedical engineering, and molecular biology. We seek a Molecular/Cell Biologist to coordinate molecular studies of myocardial dysfunction observed following cardiac surgery (coronary artery bypass, partial left ventriculectomy, cardiomyoplasty, ventricular assist devices, and transplantation), with a view toward adjunctive gene therapy. Ph.D. and postdoctoral experience required. Experience with gene therapy and transgenic models a plus. Candidates should possess a strong publication record and ability to secure extramural funding. Please submit curriculum vitae, three letters of reference, a statement of research experience, and a summary of research objectives to: **Hiram C. Polk, Jr., Chairman and Professor, Department of Surgery, and Laman A. Gray, Jr., M.D., Director, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Louisville, Louisville, KY 40292.** Application deadline is May 15, 1998. *The University of Louisville is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACOLOGY Division of Basic Pharmaceutical Sciences Northeast Louisiana University

Applications are invited for a 12-month, tenure-track position in the Division of Basic Pharmaceutical Sciences. The Division has 14 FTEs and comprises the areas of medicinal chemistry, pharmacology, and pharmaceuticals. The successful candidate will be expected to establish an active research program and be committed to excellence in teaching at the undergraduate and graduate levels. The position requires a Ph.D. in pharmacology. The area of research is open but should complement the existing research of Division faculty. Candidates with postdoctoral experience and a background in pharmacy education are preferred. Applicants should submit a curriculum vitae, a brief description of research and teaching interests, and the names, addresses, and telephone numbers of three references to: **Michael Crider, Ph.D., Director, Division of Basic Pharmaceutical Sciences, School of Pharmacy, Northeast Louisiana University, Monroe, LA 71209-0470. Telephone: 318-342-1707; e-mail: pycrider@alpha.nlu.edu.**

A member of the University of Louisiana System. Northeast Louisiana University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION PHARMACOLOGY AND TOXICOLOGY

A tenure-track faculty position at the **ASSISTANT PROFESSOR** level is available in the Department of Medical Pharmacology and Toxicology, College of Medicine, Texas A&M University Health Science Center. The successful candidate is expected to develop a strong independent research program and participate in medical and graduate teaching. The position will be available in the fall of 1998. All research areas of pharmacology are relevant. Program strengths within the department include ocular, cardiovascular, and neuropharmacology, as well as toxicology. Applications should include curriculum vitae, selected reprints, statement of research interests, and three letters of reference. Review of applications will begin May 1, 1998, and will continue until the position is filled. Please send your application to: **Dr. William H. Griffith, Chair, Search Committee, Department of Medical Pharmacology and Toxicology, Texas A&M University Health Science Center, College Station, TX 77843-1114.** *Equal Opportunity Employer.*

FACULTY POSITION NEW YORK UNIVERSITY SCHOOL OF MEDICINE Department of Microbiology

The Department of Microbiology is seeking candidates at the **ASSOCIATE PROFESSOR** and **FULL PROFESSOR** level in the fields of prokaryotic molecular biology and/or microbial pathogenesis. Our department spans a broad range of areas from virology to cell biology, and is located in the Medical Sciences Building at New York University Medical Center. Applications should include a curriculum vitae, a statement of research interests, reprints or preprints, and three letters of reference to be forwarded separately. Send applications to: **Microbiology Department Search Committee, Attn: Richard P. Novick, M.D., Skirball Institute Floor 2, New York University Medical Center, 540 First Avenue, New York, NY 10016. Telephone: 212-263-6290.** Application deadline: May 15, 1998.

New York University School of Medicine is an Affirmative Action/Equal Opportunity Employer.

Innovative leader to enhance the educational activities of the School of Medicine, Vanderbilt University. Develop, teach, and apply biomedical informatics for ongoing education of undergraduates, Residents, Fellows, and Practitioners (CME). Appointment as **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** of biomedical informatics. Position requires M.D., Ph.D., Ed.D. (or equivalent) plus five years of experience. Candidate should have track record implementing innovative approaches to education; experience with medical school curricula; record of excellence in teaching; competency in educational evaluation; and technical background in biomedical informatics. Deadline June 15, 1998; see website: www.mc.vanderbilt.edu/positions/dbmi/EDFACPOS.html for job and application details. *Vanderbilt University Medical Center is an Equal Opportunity Employer.*



METABOLEX INC., a San Francisco Bay area biotech company dedicated to a better understanding of diabetes and the development of small molecule drug candidates to treat diabetes, currently has several openings for talented scientists. Candidates should have an M.D. or Ph.D. with at least 2 years postgraduate research experience in Cell Biology, Molecular Biology, or Biochemistry. Research training on receptors, signal transduction, or membrane support is highly desirable. More senior candidates will also be considered for leadership positions within the scientific team.

Signal Transduction Group

Scientists will direct research that defines key steps in signal transduction pathways relating to insulin action in muscle and fat and stimulus-secretion coupling in islets. Experience in recombinant expression of proteins, protein-protein interactions, molecular cloning, and cellular fractionation is preferred.

Membrane Trafficking Group

Scientists will direct research to define key components in membrane trafficking and protein sorting involved in the translocation of glucose transporters in insulin-responsive cells, as well as in exocytosis of insulin-containing secretory granules in beta cells.

Genomics Group

Scientists will direct research to identify genes that are related to peripheral insulin-responsiveness as well as human beta cell function. Experience in differential expression analysis, bioinformatics, and high-throughput sequencing is desirable.

Metabolex offers competitive salaries and benefits. More detailed information about research and scientists at Metabolex is available upon request. Applicants should send a curriculum vitae to: **Metabolex Inc., Director of Human Resources, 3876 Bay Center Place, Hayward, CA 94545** or via e-mail to "jobs@metabolex.com". *Metabolex is an Equal Opportunity Employer.*



ASTRA MERCK

Astra Merck Inc. is a flexible, matrixed company engaged in pharmaceutical drug development, sales and marketing. Started as a joint venture between Astra AB and Merck, Astra Merck Inc. (AMI) is now a successful, stand-alone company employing nearly 2,200 people. Pharmaceutical projects are organized into product development teams within four business units (gastroenterology, emerging products, and 2 in cardiovascular units).

PRECLINICAL OPPORTUNITIES

As part of our Preclinical team, individuals will provide expertise and deliverables, including support for current projects, as well as preclinical evaluation for Phase I & II projects under consideration by AMI for development in the U.S. (includes Astra, Astra Merck INDs, in-license candidates). Selected candidates will plan, place, and monitor/execute AMI-funded preclinical studies, ensuring compliance with Animal Welfare Act and other regs. In addition, individuals will represent AMI's preclinical issues at FDA (and other reg. agencies) and will work with Astra product companies to facilitate integration of AMI and Astra.

Ideal candidates will have 5 years industry experience in toxicology, pathology, safety pharmacology, mechanistic pharm/tox, or PK/ADME. Expertise in immunotox, genotox, reprotox, neurotox, clinical pathology, comparative physiology, & medicine would be a plus. Prefer advanced academic training in biochem/biophysics, cell & molecular biology, immunology/oncology, microbiology, systems physiology, or veterinary medicine.

Please send/tax resumes to: **Astra Merck Inc., Human Resources, Attn: Terry Shields, 725 Chesterbrook Blvd., Wayne, PA 19087. FAX: 610-695-4450.** We are an equal opportunity employer. Visit our Web site: www.astramerck.com

WAKE FOREST UNIVERSITY

SCHOOL of MEDICINE

THE BOWMAN GRAY CAMPUS

Endowed Professorship in Neuroscience Neurobiology of the Neuromuscular System

We are seeking an external candidate with a strong, well-established research program who is studying basic neurobiological mechanisms relevant to the neuromuscular system. Areas of special interest include trophic/nutritional aspects; neuronal development/synaptogenesis; neuronal injury/cell death and regeneration; and animal models of therapeutic strategies, including transgenic approaches. The endowment provides annual research funds to be used at the discretion of the successful candidate. The Wake Forest University School of Medicine offers a unique opportunity to interact with more than 90 neuroscientists from 13 different departments with diverse research interests that comprise part of an interdisciplinary Ph.D. Program in Neuroscience. Please send a curriculum vitae, a brief one page description of research interests, and a list of 3-4 references to: **Ronald W. Oppenheim, Department of Neurobiology and Anatomy, Wake Forest University School of Medicine, Medical Center Blvd., Winston-Salem, NC 27157-1010. AA/EOE.**

National Institute of Standards and Technology

Deputy Director

The Deputy Director of NIST is responsible for managing a portfolio of federal programs that promote economic growth by working with industry to develop and apply technology, measurements, and standards. A member of the Senior Executive Service, the Deputy Director serves as the chief operating officer for NIST and is responsible for assuring that the research environment, facilities, and resources are maintained to permit NIST to continue its world-class research and technology deployment. NIST is an agency of the U.S. Department of Commerce.

Mandatory Qualifications Applicants will be evaluated and qualified candidates will be distinguished from other applicants by a panel of subject-matter experts referencing the mandatory managerial and technical requirements listed below. U.S. citizenship is required. Failure to meet all of the following mandatory qualifications automatically disqualifies an applicant.

Managerial Qualifications Leading change ■ leading people ■ results driven ■ business acumen ■ building coalitions/communications.

Technical Qualifications

■ Ph.D. or equivalent education and research experience in one of the following professional fields: mathematics, computer science, materials science, engineering, physics, chemistry, fire research, or information technology—with documented evidence of national and/or international recognition in one or more of these fields as demonstrated through awards, publications, invited speeches, and/or membership in professional societies/standards organizations.

■ Demonstrated technical manager with substantial experience in leading a complex multidisciplinary scientific/technical research organization including demonstrated ability to plan, organize, and manage a technical organization and its subordinate programs. Experience also must demonstrate ability to readjust priorities; institute organizational change including downsizing of operations; implement quality assurance and performance assessment programs; and manage multiple layers of management.

■ Demonstrated knowledge of public administration, program evaluation, budgeting, and finance as it relates to the management of a research/development facility.

■ Demonstrated competence in the preparation of authoritative recommendations and criteria with demonstrated ability to make clear and convincing oral/written presentations of a technical and/or non-technical subject matter to individuals or groups including Congressional bodies, media outlets, and academic bodies as well as non-technical audiences.

■ Extensive experience in international and national metrology including a comprehensive knowledge and understanding of the U.S. voluntary standards system as well as international standards, accreditation activities, and conformity assessment.

■ Experience in selecting or managing cooperative research programs designed to stimulate economic growth including demonstrated ability to manage technology transfer activities.

Details: Vacancy Announcement # NIST/98-1149/SES (www.usajobs.opm.gov) ES-1301-00; Salary Range: \$106,412 - \$125,900.

How to Apply: Applications must be postmarked no later than May 1, 1998, and received no later than May 6. Applicants must submit a resume, OF-612 (Optional Application for Federal Employment) or any other written format of choice (SF-171, Application for Federal Employment, is also acceptable) and a supplemental statement providing detailed evidence of possession of the previously listed qualifications requirements. This evidence should include clear, concise examples to show level of accomplishment and degree of responsibility.

WHERE TO APPLY:

National Institute of Standards and Technology
Office of Human Resources Management
Building 101, Room A-123
Gaithersburg, MD 20899
Attention: SES Program Coordinator
Phone (301) 926-4851
The U.S. Department of Commerce is an Equal Opportunity Employer



Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation, a Novartis Group Company formed from the merger of Ciba and Sandoz. Novartis is a world leader in Life Sciences with core businesses in Healthcare, Agribusiness and Nutrition. Focused on novel healthcare solutions, we sustain our leadership position by discovering, researching, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions, and in the process, help people live longer, healthier lives. To do this effectively, the Novartis Group invests more than \$2 billion annually in healthcare research and development. Focusing, in Pharmaceuticals, on the therapeutic areas of transplantation/immunology, arthritis/inflammation/bone, cardiovascular and metabolic, nervous system, dermatology, oncology and respiratory, all supported by leading technologies.

We invite you to investigate the following opportunity within Drug Discovery Research at our state-of-the-art northern New Jersey location:

Sr. Scientist/In Vivo MRI Labhead

You will be responsible for the set-up, operation, and maintenance of the state-of-the-art capabilities of the In Vivo Magnetic Resonance Imaging Laboratory, while supervising junior-level scientists. You will establish pharmacology collaborations/projects with Therapeutic Area customers; and design/implement study protocols in collaboration with these customers. In addition, you will interact with Core Technology colleagues and with the Switzerland In Vivo MRI group. Qualifications include a Ph.D. in In Vivo NMR, 3-5 years of relevant experience, demonstrated expertise in biomedical applications and hands-on experience with state-of-the-art in vivo nuclear magnetic resonance techniques. Experience should include pulse programming, probe building and image analysis. This position requires a customer-focused individual with strong leadership and team building skills. Proven ability

to manage multiple projects and strong verbal/written communication skills are also essential.

Novartis offers attractive salaries and comprehensive benefits. Write your own prescription for success and apply today. **PRINCIPALS ONLY:** send your resume/curriculum vitae and letter of interest, indicating VW-5461 on resume AND envelope, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Building G2, Summit, NJ 07901; or e-mail staffing.rd@pharma.novartis.com. Please indicate position code on resume AND envelope (or as the subject on your e-mail). We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

The Science of Agricultural Genetics

RESEARCH ASSOCIATE (JOB # CP-805) Tissue-specific gene expression

Pioneer Hi-Bred, International, Inc., Johnston Iowa USA

Pioneer Hi-Bred is seeking a research associate to join the gene expression team working on the analysis of tissue-specific gene expression and protein localization in plants by in situ hybridization and immunohistochemistry. Desired qualifications include knowledge of plant morphology and histological techniques, microscopy skills, experience with molecular biology, including DNA and RNA analysis techniques, PCR, in situ gene expression and immunolocalization. Emphasis is placed on knowledge of plant biology and genetics, good organizational skills, high motivation, excellent written and verbal communication skills, and the ability to take initiative in ongoing technology improvements. Required computing skills include DNA and protein sequence analysis, DNA construct design and database analysis. Educational Requirements: M.S. or B.S./B.A. degree or equivalent in plant genetics, plant molecular biology or botany with 2-3 years of relevant experience in the fields of plant histology and molecular biology.

Visit our website at <http://www.pioneer.com/>. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by May 29, 1998, to: Pioneer Hi-Bred International, Inc., Attn: Research - Human Resources (Job #CP-805), P.O. Box 1004, Johnston, IA 50131-1004 USA.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer® brand products are grown in almost every crop producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



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INTERNATIONAL, INC.**
An Equal Opportunity Employer



**The University of New Orleans
and the Audubon Institute
announce an Endowed Chair
for the Study of
Conservation of Endangered Species**



The University of New Orleans invites nominations and applications for the Virginia Kock/Audubon Institute Chair in Species Survival and Preservation. The successful candidate will have research experience in the reproductive biology of exotic and endangered animal species with emphasis on assisted reproduction techniques.

The Virginia Kock/Audubon Institute Chair in Species Survival and Preservation will establish a dynamic research program on reproduction and preservation of wild species, particularly those with endangered status. The Chair will be appointed to the faculty in the Department of Biological Sciences at the University of New Orleans and will participate in its teaching programs and in the direction of graduate students. Research will be conducted at the nearby Audubon Center for Research of Endangered Species (ACRES), a new state of the art research facility. The Chair will assume responsibility for the development and operation of research programs at ACRES.

Candidates should have credentials appropriate for appointment at the rank of Professor and experience in administration of large interdisciplinary research programs on the propagation of endangered species. **For more information, see <http://www.uno.edu/~bios>.**

Send nominations or applications including: curriculum vita, statement of administrative experience and research interests, and contact information for five references by May 15, 1998 to:

Endowed Chair Search Committee
Department of Biological Sciences
University of New Orleans
New Orleans, LA 70148

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Postdoctoral Research Fellowship

A Postdoctoral Research Fellowship in electrophysiology within the Department of Neuroscience Therapeutics is available immediately. This opportunity is for a two-year study and involves training with a team of electrophysiologists to perform whole-cell voltage clamp studies of pharmacological actions. Included is research work with acute rat spinal cord slices, with cultured cells expressing recombinant cation channels and with primary cultures of mammalian neurons. In addition, you will be able to collaborate with other laboratories within Parke-Davis and/or with colleagues at the nearby University of Michigan. Minimum qualifications include a Ph.D. in Neuroscience or a closely related field and prior experience with electrophysiological techniques. Job Code: CJM-974046

Postdoctoral Research Position

This is an outstanding opportunity for a highly-motivated individual to study the regulation of pulmonary inflammation. Your research will focus on the activation and migration of CD4 T cells and other leukocyte types in animal models of allergic lung inflammation. Qualifications include a Ph.D. in Immunology, Cell Biology or related field, and previous experience with animal models, tissue culture, and flow cytometry. Previous experience with analyses of pulmonary mechanics, cell adhesion, monoclonal antibody production, or molecular biology preferred. Job Code: CJM-985353

Scientist/Senior Scientist

As part of the Pharmacokinetics, Dynamics, and Metabolism department, you'll investigate drug metabolism-related issues of discovery and development compounds. This primarily involves the isolation and use of animal and human hepatocytes (in suspension and culture) to assess metabolic pathways of biotransformation and CYP450 induction potential. In addition, you'll assess the intestinal drug metabolism and its impact on drug disposition. Qualifications include a Ph.D. in Pharmacokinetics, Drug Metabolism, or a related field and a background in drug metabolism and the use of hepatocytes as an *in vitro* tool. Experience with the isolation and culture of hepatocytes from several animal species, as well as human tissue, is essential. A background in intestinal drug metabolism and CYP450 induction, along with excellent communication skills, are required. Job Code: RJB-98088

We offer an attractive compensation package and a positive environment that encourages continuous growth and success. Qualified candidates please mail, fax or e-mail your resume, indicating the job code of interest, along with curriculum vitae and copies of recent manuscripts of published papers, to: Parke-Davis Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: (310) 337-3367. E-mail: parkedavis@isearch.com

Visit Our Website at: www.warner-lambert.com

Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.

Equal opportunity in action. Smoke-free work environment.

Infectious Diseases

While working as part of a multidisciplinary team, you will apply your research skills in one of the following areas to discover and characterize new antibiotics for human use.

Microbiology/Molecular Biology

Qualified candidates will have a B.S. or M.S. degree in Microbiology, Genetics, Molecular Biology, or closely related field, and 2 years of laboratory research experience demonstrating their ability to analyze gene function in a gram-positive bacterial system. The successful candidate will use genetic and molecular biology approaches to identify and characterize bacterial targets, understand the function of those targets *in vivo*, and analyze the mechanism of action of antibacterial compounds. Job Code: RJB-980120

Protein Biochemistry/Enzymology

Qualified candidates will have a B.S. or M.S. in Biochemistry or a related field with significant training and experience in enzymology. The individual will perform *in vitro* experiments necessary to identify, characterize, and refine new antibacterial compounds. Among other things, this will involve developing high throughput enzyme-based screening assays and methodologies to fully characterize enzyme inhibitors and their mode of action. Excellent organizational and computer skills are required and experience with enzyme inhibitors and drug design desirable. Job Code: RJB-980119

Associate Scientist/ Senior Associate Scientist

You'll assist a Senior Investigator in the *in vivo* testing of novel inhibitors of herpesvirus replication using various animal models of viral pathogenesis and latency. This team player must possess a B.S. or M.S. in Microbiology, Virology, or Molecular Biology, 4+ years' postgraduate training and extensive experience in molecular biology, tissue culture and animal handling techniques. Job Code: RJB-980118

Research Associate

This is a senior staff position in the Herpesvirology program of the Infectious Diseases section. You will implement various animal models of herpesvirus pathogenesis and latency, coordinate all internal and external *in vivo* testing of novel antiherpesvirus agents and initiate an independent research program targeted at the discovery and characterization of novel antiviral therapies. A Ph.D. with 4+ years' relevant postdoctoral training, extensive experience in the molecular biology and *in vivo* replication of herpesvirus infections, and a demonstrated ability to function independently and as an integrated member of a large research team are required. Job Code: RJB-980117



PARKE-DAVIS

Warner-Lambert "Pharmaceutical Company of the Year"
-Med Ad News 1997

Cancer Genomics & Drug Discovery

Cold Springs Harbor, New York

Tularik Inc. is a privately-held biopharmaceutical company committed to the discovery and development of novel small molecule drugs that act through the regulation of gene expression. Tularik has initiated a cancer drug discovery program incorporating state-of-the-art genomics technologies. We currently have a rare opportunity for two dedicated researchers to participate in this cutting-edge program and help us shape the future of human cancer therapeutics.

Scientist • We are looking for a highly motivated, creative genomics scientist and/or cancer molecular biologist to join Tularik's cancer gene discovery project at our New York facility. The successful candidate will have a Ph.D. in molecular biology or related field, at least 2 years of postdoctoral experience, and a demonstrated record of scientific accomplishments. (Position Code A01)

Postdoctoral Associate • The successful candidate will perform cancer genomics research aimed towards identification and verification of new targets for drug discovery. Qualified applicants will have recently received (or are about to receive) a Ph.D. in molecular biology or a related field. (Position Code A03)

In addition to an exciting environment, competitive salaries, comprehensive benefits and equity participation, Tularik offers experienced leadership and a stimulating research environment that encourages scientific publication and recognizes achievement. To be considered for this exciting position, please send, fax or email your resume to:

Tularik Inc.
HR Dept., Position Code: ____
Three Technology Dr., Suite 200
East Setauket, NY 11733
Fax: (516) 689-1489
email: resume@tularik.com
www.tularik.com

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MAYO CLINIC POSTDOCTORAL POSITION

Postdoctoral positions are available for NIH-funded research programs investigating disease risk genes in rheumatoid arthritis. The focus of this research is to identify functional implications of immune response gene polymorphisms on the inflammatory process, specifically, the genetic control of oligoclonal T cell expansion. Candidates should hold a Ph.D., M.D., or D.V.M. degree and should have training and experience in molecular and cellular techniques. Send a curriculum vitae, description of research experience, and the names and addresses of three references to:

Dr. Jorg J. Goronzy
(goronzy.jorg@mayo.edu)

or

Dr. Cornelia M. Weyand
(weyand.cornelia@mayo.edu)
Department of Medicine
Mayo Clinic
200 First Street, SW
Rochester, MN 55905

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer.

Affymax Research Institute is an innovative company dedicated to the development of new technologies to revolutionize the process of drug discovery. Our multidisciplinary approach provides a stimulating environment for creative individuals who desire to make a significant contribution to science.

SCIENTISTS

We are seeking highly motivated Scientists to join the newly formed Molecular Genetics Group and assist in the development of high-throughput technologies applied to the field of genetic analysis. The responsibilities of the positions will include design and implementation of methods to identify and genotype polymorphisms within genomic DNA, assess gene expression and define function of novel gene products. Successful candidates will possess a Ph.D. in Molecular Biology or Molecular Genetics, 2-5 years of post-doctoral experience and familiarity with current mutation detection and genotyping technologies. Preference will be given to candidates who display a proven record of technology innovation, have practical experience with hybridization-based genotyping techniques, a working knowledge of the thermodynamics of oligonucleotide hybridization and/or a strong knowledge of nucleic acid chemistry.

We offer an excellent compensation package. Please visit our website at www.affymax.com and send your resume to:

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A GlaxoWellcome Co.

Two Openings for POST-DOCTORAL ASSOCIATES or RESEARCH SCIENTISTS in the area of Global Climate Modeling

Massachusetts Institute of Technology's Center for Global Change Science (CGCS) seeks applicants with a Ph.D. in a field relevant to global climate modeling to participate in the research activities of MIT's Climate Modeling Initiative (CMI). The main goals of the CMI are to understand how the global climate system operates, to determine what the limits are to our ability to predict climate, to improve climate predictions and simulations of past climate on all time scales, and to provide a hierarchy of climate models for use by CGCS faculty and students in their research. There are two positions available, which can be filled at either the post-doctoral or starting research scientist level. We seek particularly candidates with degrees and experience in the fields of atmospheric science, oceanography, hydrology, or paleoclimate studies, and who have had experience with three dimensional models. Scientists with expertise in numerical and computational methods, physical parameterizations, diagnostics calculations, or model applications are all invited to apply. Salary will be commensurate with experience.

Interested candidates should send a copy of their curriculum vitae and names of three references to Prof. Peter Stone, MIT Room 54-1718, Cambridge, MA 02139-4307, USA. Further information may be obtained by contacting the CGCS office (tel: 617-253-4902, fax: 617-253-0354, e-mail: globalchange@mit.edu), or by accessing its web site at <http://web.mit.edu/cgcs/www/>.



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Novartis, recently formed by the merger of Ciba-Geigy and Sandoz, is a global leader in the application of biotechnology to agriculture. The Novartis Seeds Biotechnology Research Unit (Research Triangle Park, North Carolina) is developing novel transgenic solutions to enhance agronomic performance of major crops worldwide. Successful candidates will join an interdisciplinary group of highly motivated scientists devoted to maintaining leadership in the area of agricultural biotechnology. We currently seek outstanding candidates for the following positions:

In our Disease Control Group:

RESEARCH SCIENTIST (Pos. No. 9818)

A position is available in a research team searching for compounds with antifungal activity. The successful candidate will screen biological materials for novel antifungal activities, and help pursue interesting leads by isolation and characterization. The scientist must possess excellent organization skills and the ability to handle multiple experiments concurrently. Biochemistry, molecular biology or microbiology experience would be helpful. A B.S./M.S. degree is required.

MOLECULAR BIOLOGIST (Pos. No. 9819)

We seek a motivated individual to fill a research position aimed at engineering or disease resistance crops plants. Research roles will include experimental assessment of novel antifungal technologies, construction of plasmid cloning and plant transformation vectors, and molecular analysis of transgenic plants. Broad-based laboratory experience would be helpful but is not required. A B.S. or M.S. in Biology, Genetics, or a related field is required.

FUNGAL MOLECULAR BIOLOGIST (Pos. No. 9820)

We are looking for a scientist who can play a role in a newly-initiated project aimed at novel methods for control of economically important maize pathogens. The successful candidate will help design and implement research strategies towards understanding the interactions of fungal pathogens with their hosts, and will apply findings in this area towards agronomically successful solutions through engineering of disease resistant crop plants. An M.S. or Ph.D. degree is required, and familiarity with the molecular biology and/or pathology of fungi is highly desirable.

In our Insect Resistance Group:

MOLECULAR ENTOMOLOGIST (Pos. No. 740)

The successful candidate will work with a multidisciplinary research team focused on identifying and characterizing novel insecticidal genes and proteins, with special emphasis in the areas of Vegetable Insecticidal Proteins. Applicants must demonstrate a comprehensive knowledge of molecular biology techniques including a variety of RNA protocols and have experience working with primary and established insect tissue culture systems. Some background in plant molecular biology would be useful. A record of interest and accomplishment in the area of insect control, insect molecular biology or related field is required. An M.S. degree and 3+ years of experience in molecular or cellular biology are also required.

Novartis offers a competitive salary commensurate with qualifications and experience, a comprehensive benefits package, and an environment conducive to professional achievement. Qualified candidates should forward a resume and cover letter (indicating pos. no.) and a list of three references to: Novartis Agribusiness, Human Resources, P.O. Box 12257, Research Triangle Park, NC 27709-2257. We are an Equal Opportunity Employer, m/f/d/v.



NC STATE UNIVERSITY

NORTH CAROLINA STATE UNIVERSITY COLLEGE OF AGRICULTURE AND LIFE SCIENCES POSITION ANNOUNCEMENT TITLE:

Associate Dean and Director of Academic Programs

POSITION DESCRIPTION: The Associate Dean and Director of Academic Programs is responsible for administration of academic programs in the College of Agriculture and Life Sciences (CALS). The individual holding this position reports to the college Dean, and will work closely with the Associate Deans and Directors of Research and Extension, and with department heads and faculty.

This position requires coordination of program efforts with the Directors of Research and Extension, and close cooperation with department heads and faculty to provide the highest quality academic programs consistent with the mission of the college. Specific areas of responsibility include: development and implementation of the academic programs budget, faculty recruitment, salary adjustment, tenure and promotion decisions, student support services, undergraduate and graduate curriculum development, recruitment and retention of a diverse student population, expansion of distance learning programs and community college linkages, oversight of the agricultural Institute (an associate degree program), close constituencies, oversight of the dual degree Jefferson Scholars Programs, support of student academic advising, student clubs, organizations, honors programs, scholarship awards, and college-level career service academic program outcome assessments.

The College of Agriculture and Life Sciences is comprised of 19 academic departments with a current enrollment of approximately 3,500 undergraduates and 800 graduate students. An additional 460 students are enrolled in the two-year Agricultural Institute.

QUALIFICATIONS: Candidates must have an earned doctoral degree in a discipline related to agricultural or one of the life sciences, experience in teaching at the college level, and a strong record of accomplishments and commitment within the academic programs arena, the candidate must understand the land-grant university system and support the essential relationships of academic programs with research and extension.

AVAILABILITY: Position available July 1, 1998 (applications will be accepted until May 1 or until a suitable candidate is identified).

SALARY: Commensurate with qualifications and experience

To apply: Send letter of application, curriculum vitae, and names of at least three references to: **Dr. Johnny C. Wynne, Chairman, Search Committee, North Carolina State University, Box 7643, Raleigh, NC 27695-7643.** For more information on the position and the college, visit our website at <http://www.cals.ncsu.edu/academic/vacancy/html>. **NORTH CAROLINA STATE UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.**

PROPOSALS



REQUEST FOR RESEARCH PROPOSALS WHOLE EFFLUENT TOXICITY TESTING FOR IMPROVED REGULATORY APPLICATION IN ARID WEST ENVIRONMENTS

The Arid West Water Quality Research Project (WQRP) will be issuing a request for preproposals from research institutions, which will be used to invite subsequent full proposals from selected applicants. Funding of up to approximately \$1KK in aggregate for several successful proposals is available from an EPA grant. For more information and for a complete copy of the RFP call 520-740-6977 or e-mail: wqrp@wqm.co.pima.az.us

Director, Neuroscience & Behavioral Health

The Institute of Medicine/National Academy of Sciences is seeking a Program Director for its Neuroscience and Behavioral Health Program. Incumbent will have primary responsibility for product quality and will need to exercise sound judgment and decision making regarding projects, staff, reports, and the representation of the IOM in accordance with institutional policies. Will also directly supervise study directors and have substantive involvement in one or more studies within the program portfolio.

Candidates should have M.D., Ph.D., or equivalent, related to basic or clinical science, (e.g., anatomy, anthropology, biochemistry, biology, psychology or medical specialty closely related to neuroscience and/or behavioral health) with at least 6-7 years of related experience. Extensive writing/publishing and speaking experience and a thorough understanding of both the federal government and the foundation world are required. Demonstrated expertise in administration, program analysis and planning and group communication, (e.g., publication of original research, teaching, administration, policy analysis and formulation and/or clinical practice) also required.

Send resume to: **IOM/NAS; FO 3080 (CHE); 2101 Constitution Avenue, NW; Washington, DC 20418.** EOE. Visit us at: WWW.NAS.EDU

Director of Clinical Research Director of Treatment Evaluation Research

The Albert Einstein College of Medicine seeks applications for two (2) research positions in our Division of Substance Abuse, Department of Psychiatry and Behavioral Health. We are committed to build a strong clinical research component and to seek funding for research in epidemiology, etiology, treatment processes and outcomes, addiction pharmacotherapy and addiction policy issues. This research effort will support and complement our well-established basic science division and will strengthen our expanding clinical services. A Doctoral Degree in psychology or in a social or health related science and experience in grantsmanship is required. We will provide an excellent salary and benefits as well as a faculty appointment at the appropriate rank at AECOM. Send your Curriculum Vitae to: **T. Byram Karasu, M.D., Silverman Professor and Chairman, Department of Psychiatry and Behavioral Health, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** Equal Opportunity Employer.

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Group Leaders, Scientists

Post-Docs, Research Associates

Maxygen has 20 open positions in several fields. The successful candidates will be innovative, motivated, creative and team-oriented individuals with proven scientific track records. Maxygen is an independent company, created as a spin-off from Affymax Research Institute and GlaxoWellcome. Maxygen is a state-of-the-art technology center focused on development of directed evolution technology ('molecular breeding') for the optimization of DNA and protein sequences.

Plant Scientists (10 positions)

Maxygen is establishing a scientific effort to capture the value of gene shuffling in agriculture.

Plant Molecular Biologists

Expression and assays of gene libraries in hosts including bacteria, yeast, plant cells and whole plants (All levels).

Plant Transformation Scientists

Improvement of methods for plant transformation, especially Agrobacterium, Viral vectors, Biolistics, Protoplasts (All levels).

Assay Development-HTP Screening

Target-based assays, microbial assays, plant cell & tissue assays, whole plant assays. High throughput experience preferred.

Enzyme Engineering (10 positions)

Enzymes-Metabolic Pathways-Natural Products

Molecular Biologists, Enzymologists, Microbiologists, Microbial Geneticists

Shuffling technology development and application. Combining molecular breeding technologies and novel high throughput screening methods, Maxygen is evolving enzymes and pathways for diverse chemical applications in pharmaceuticals, natural products, specialty & commodity chemicals. Shuffling of enzymes to generate libraries of chemicals that are screened for pharmaceutical properties. Rather than using existing pathways, single enzyme families are evolved for complex biosynthesis, biotransformations and couplings of a large diversity of building blocks.

Assay Development-HTP Screening-Analytical Chemistry

Biochemists with experience in enzyme and pathway reactions in microbes. HTP screening implementation and robotic automation.

Molecular Microbiologists

Experienced with genetic manipulation of bacillus, yeast and actinomycetes.

Please see our Website at
WWW.MAXYGEN.COM for additional information. Resumes, including e-mail address to: Ms. Rose Sturgess, Maxygen, 3410 Central Expressway, Santa Clara, CA 95051; e-mail cv's: david_kashyap@maxygen.com

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MAXYGEN

**BBi Biotech
Research
Laboratories, Inc.**

BBi Biotech, the research and development division and a wholly owned subsidiary of Boston Biomedica, Inc., is a growing biotechnology company located in Gaithersburg, MD. BBi Biotech, in addition to its R&D efforts in support of the quality control products produced by its parent, is a leading supplier of contract and service support for government and private industry. With a long and reputable history in infectious disease research, BBi Biotech is on the cutting edge of Cellular and Molecular Biology. Our major focus is the development of innovative diagnostic tests and reagents for infectious disease.

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BBi

Director of Biotherapeutics

Planning to expand our R&D program for development of anti-HIV drugs into a Biotherapeutics Division which will take our existing patented anti-HIV compounds through to clinical testing, BBi needs a Ph.D. to develop and implement a plan to guide the program expansion to include a broad spectrum anti-viral screen, drug formulation and solubility studies, toxicology studies in small animals, SCID mice efficacy studies and ultimately through human trials. Familiarity with FDA IND submission requirements and an understanding of the Biotherapeutics industry required. Job Code: RS

Director of Molecular Product Development

Ph.D. in Molecular Biology or related field with at least 6 years experience in a biotechnology company required. Must be familiar with the design and use of molecular diagnostic tests for infectious diseases. Extensive knowledge of production scale-up, validating, training, and requirements for FDA licensing is required. The successful candidate will direct the development of independent controls and other QC reagents used in molecular diagnostic testing. In addition, will also interact with R&D to transfer new products to the manufacturing group. Job Code: MM

We offer excellent compensation, benefits, and working environment. Interested candidates should send a cover letter or letter of interest with their complete CV indicating job code to:

BBi Biotech Research Laboratories, Inc.
217 Perry Parkway • Gaithersburg, MD 20877
Fax: (301) 208-8829
email: tadams@bbi.com EOE

TENURE-TRACK FACULTY OPPORTUNITIES IN MICROBIAL PATHOGENESIS

The Rockefeller University is conducting an active search for independent faculty positions as Assistant Professor and Head of Laboratory in microbiology, with an emphasis on basic research on molecular mechanisms of microbial pathogenesis and the interface between microbe and host. Our interests embrace both prokaryotic and eukaryotic pathogens.

Applicants should have demonstrated outstanding potential for independent research in this area and should send a curriculum vitae (including publication list), a statement of current and future research interests (no longer than 3 pages), the names and addresses (including telephone, fax and e-mail information) of three referees (who should be asked to send their references without delay) to: **Dr.**

Peter Model, The Rockefeller University, Box 302, 1230 York Avenue, New York, NY 10021-6399. The closing date for applications is May 15th, 1998. The Rockefeller University is an Affirmative Action/Equal Opportunity Employer.



Further information about the research and educational programs of The Rockefeller University can be found on the internet at www.rockefeller.edu.

POSTDOCTORAL POSITIONS REGULATION OF GENE EXPRESSION

The University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Department of Microbiology and Molecular Genetics has positions available immediately to study:

Mechanisms of gene transcription in trypanosomes. Molecular parasitology is a growing field; our work on transcriptional regulation (J. Biol. Chem. 273:33344) is uncovering protein-DNA and protein-protein interactions involved in these processes. Experience in molecular biology is required. Reply to: Vivian Bellofatto Ph.D. (email: bellofatto@umdnj.edu)

Regulation of gene expression in yeast. We are analyzing changes in the activity of a DNA-binding transcriptional regulator as a function of its post-translational modifications in response to a pathway-specific inducer (Genetics 142:1069). Familiarity with molecular biology, protein biochemistry and immunological methods is an asset. Reply to: Marjorie Brandriss, Ph.D. (email: brandriss@umdnj.edu)

Cell signaling and gene expression in yeast. Two postdoctoral positions are available to study (1) the mechanism by which cAMP-dependent protein kinase regulates transcriptional factors involved in stress response and growth (Mol. Cell. Biol. 15:6854) and (2) the regulation and function of a yeast homolog of mammalian voltage-gated calcium channels (Mol. Cell. Biol. 17:6339). Reply to: Stephen Garrett, Ph.D. (email: garrest@umdnj.edu)

Interested applicants should send curriculum vitae and three letters of reference to the attention of the appropriate faculty member in the **Dept. of Microbiology and Molecular Genetics (MSB-F607), UMDNJ-New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103-2714.** UMDNJ is an Affirmative Action Equal Opportunity Employer M/F/D/V and is a member of the University Health System of New Jersey.



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Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation, a Novartis Group Company formed from the merger of Ciba and Sandoz. Novartis is a world leader in Life Sciences with core businesses in Healthcare, Agribusiness and Nutrition. Focused on novel healthcare solutions, we sustain our leadership position by discovering, researching, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions, and in the process, help people live longer, healthier lives. To do this effectively, the Novartis Group invests more than \$2 billion annually in healthcare research and development. Focusing, in Pharmaceuticals, on the therapeutic areas of transplantation/immunology, arthritis/inflammation/bone, cardiovascular and metabolic, nervous system, dermatology, oncology and respiratory, all supported by leading technologies.

We invite you to explore the following opportunity at our state-of-the-art northern New Jersey, USA location.

Head, Clinical Genetics

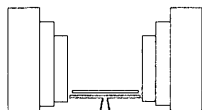
We are seeking an MD to establish, organize and lead a global program in clinical genetics and genotyping in clinical trials. The candidate selected for this senior level leadership appointment will have worldwide responsibility; will be the company expert, focal point and champion for clinical genetics; and will work closely with a newly established world-class Research functional Genomics Group.

Responsibilities will include setting corporate goals and objectives for genotyping in worldwide R&D; recruiting and supervising a clinical genotyping group; application of clinical genetics in studies of patients and their families to enhance drug development; data management; advising therapeutic area heads and international project teams; implementing regulatory and ethical-legal aspects of genotyping assays to support early and late stage clinical development; interfacing and collaborating with external experts in the field; and representing the Company on genotyping matters to the external community, including regulatory agencies. Additional duties include establishing and chairing a global "Genotyping Steering Committee" with

representatives from three R&D departments and marketing. Close interaction with Drug Discovery Research is essential; the opportunity for some individual research exists.

Qualifications include formal and advanced knowledge and experience in genomics, pharmacogenetics and clinical genetics; an MD; and demonstrated leadership, interpersonal and communication skills. Recognized expertise in the field with strong international contacts, especially in academic institutions is desired; experience in drug development is preferred.

A highly competitive salary and comprehensive benefits are included in this executive compensation plan. Interested individuals are invited to submit curriculum vitae to: National Search Associates, Doug Frankel, Executive Director, 2035 Corte Del Nogal, Ste 100, Carlsbad, CA 92009; fax (760) 431-0660; e-mail nsasearch.com. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.



THE SALK INSTITUTE

A postdoctoral position is available at The Salk Institute to study G protein-gated inwardly rectifying potassium (GIRK) channels. Current projects include an examination of the molecular mechanism underlying G protein activation, the molecular basis for specific receptor activation, and the second messengers involved in regulation of GIRK channels. The laboratory utilizes a combination of electrophysiological, biochemical, and molecular genetic techniques. Applicants must have a Ph.D. or MD/Ph.D. in Neuroscience or related field is required, along with experience in electrophysiology, molecular biology, and/or protein biochemistry. Please send CV, names and phone numbers for 3 references, and statement of research objectives to:

Dr. Paul A. Slesinger
The Salk Institute
Peptide Biology Laboratory
10010 N. Torrey Pines Rd.
La Jolla, CA 92037
(619) 453-4100, x1560
E-mail: slesinger@salk.edu

The Salk Institute is an Equal Opportunity Employer.

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EUROPEAN OPPORTUNITIES

THE UNIVERSITY of York

DEPARTMENT OF BIOLOGY

BIOMOLECULAR SCIENCES INITIATIVE

Biology at York is a large successful Department awarded grade 5 in the recent RAE and well recognised internationally as a centre of research excellence. Applications are now invited for the first two positions in a new inter-disciplinary Initiative in Biomolecular Sciences. The appointments are available from 1 October 1998.

CHAIR IN BIOMOLECULAR SCIENCE (Ref: 5/1007)

Applicants for the Chair will have established a world-class research record in a biomedical field and will be keen to interact with existing strong groups in the cancer, biomedical and biochemical areas in the Department of Biology as well as groups specialising in protein crystallography, modelling and bioinformatics in the Departments of Chemistry and Computer Science.

Salary will be within the professorial salary range (current minimum £33,882 pa).

LECTURESHIP (Ref: 5/3054)

Applicants for the Lectureship will already have demonstrated significant creative potential in any area of biomolecular science; applicants with interests in developmental biology are especially encouraged. The successful candidate may well currently be a recipient of an independent research fellowship and/or other funding.

Salary within the Lecturer Grade A salary scale (£16,045 - £21,016 pa).

Informal enquiries may be made to Professor Dianna Bowles, Chair of the Search Committee, on (44)-1904-434335, e-mail: djb32@york.ac.uk

Further particulars and details of how to apply may be obtained by writing to the Personnel Office, University of York, York YO1 5DD, or e-mail: jobs@york.ac.uk quoting the appropriate reference number. The closing date for applications is 31 May 1998.

POSITIONS OPEN

DIRECTOR STRUCTURAL BIOLOGY CENTER University of Texas-Houston Medical School

The Department of Biochemistry and Molecular Biology at the University of Texas-Houston Medical School announces the establishment of a Structural Biology Center and invites applications for the Director of the Center. Given the expertise already present, the Center will develop X-ray crystallography. The Director should be a well-funded mid-career scientist with strong credentials in X-ray crystallographic research who is attracted by opportunities associated with building a Structural Biology Center. The incentives for assuming this position include a significant annual budget, an endowed Chair, development funds to purchase needed equipment, and the opportunity to make junior faculty appointments. The Director and other Center faculty will hold an academic appointment in the Department of Biochemistry and Molecular Biology. Ongoing faculty recruitment and research development in biochemistry and molecular biology are expected to enhance the research goals of the Structural Biology Center. The deadline for applications is July 1, 1998. Interested individuals should submit a curriculum vitae, the names and addresses of three persons from whom letters of reference might be obtained, and a summary of future research directions to: **Dr. Henry W. Strobel, Chair Structural Biology Search Committee, Department of Biochemistry and Molecular Biology, University of Texas-Houston, Medical School, P.O. Box 20708, Houston, TX 77225-0708.** Our home page is **website: <http://www-bmb.med.uth.tmc.edu/>**. *Equal Opportunity Employer; women and minorities encouraged to apply.*

The Department of Animal Sciences at Purdue University seeks applicants for a **TENURE-TRACK RESEARCH and TEACHING POSITION** (majority research) in developmental biology/reproductive physiology. The incumbent will be expected to develop an innovative and internationally recognized research program, which will impact subsequent growth, body compositions, meat quality, or behavior of mammalian or avian species. Specific research areas may include, but are not limited to, embryonic development, tissue differentiation, maternal and fetal interactions, or germ cell development. Qualifications include a Ph.D. degree in reproductive physiology, developmental biology, animal sciences, or related area. Postdoctoral experience is desired. Screening of applications will begin May 1, 1998, and continue until a suitable candidate is found. Send a current curriculum vitae, three letters of recommendation, and a brief narrative summary outlining experience, goals, and qualifications for this position to: **Dr. Jeffrey D. Armstrong, Head, Department of Animal Sciences, Purdue University, Lilly Hall 1151, West Lafayette, IN 47907-1151. Telephone: 765-494-4808; FAX: 765-494-9346; e-mail: jeff_armstrong@ansc.purdue.edu.** *Purdue University is an Equal Access/Equal Opportunity University.*

FACULTY POSITION OBSTETRICS AND GYNECOLOGY

Applications are invited for a full-time faculty position in the Department of Obstetrics and Gynecology, Wayne State University. Applicants should have a Ph.D. in biological sciences, experience or interest in wound healing and adhesion development at cellular and molecular level, and demonstrated ability or potential to successfully compete for extramural funding. Excellent compensation package and laboratory space available. Rank and salary commensurate with qualifications. Please submit curriculum vitae to: **Michael P. Diamond, M.D., Hutzel Hospital, Department of Obstetrics and Gynecology, 4707 St. Antoine, Detroit, MI 48201. E-mail: mdiamond@wayne.edu.** *An Equal Opportunity/Affirmative Action Employer.*

VERTEBRATE ZOOLOGIST

University of Guam. **ASSISTANT/ASSOCIATE PROFESSOR**, tenure or non-tenure-track. Begins August 1998. Responsibilities: primarily freshman anatomy and physiology. Send by May 1, 1998, application form, curriculum vitae, official graduate transcripts, copy of undergraduate transcripts, statement of teaching philosophy, three letters of reference, and reprints to: **Biology Search Committee, Human Resources Office, University of Guam, Mangilao, Guam 96923 USA. E-mail: clobban@uog9.uog.edu; website: www.uog2.uog.edu.**

POSITIONS OPEN



FACULTY POSITIONS

The Departments of Physiology and Pharmacology of the College of Medical Sciences at Nova Southeastern University invite applications for the positions of **ASSISTANT PROFESSOR** in the areas of general or cardiovascular physiology, and general cardiovascular, or neurophysiology. The College of Medical Sciences is located in the new Health Professions Division facility on the Fort Lauderdale campus. Salaries are competitive and fringe benefits are generous. The candidates' responsibilities will include participation in team-taught courses to health profession students, scholarship, and service. The starting date for the positions is July 1, 1998, pending approval of the Board of Trustees. Please send a letter of intent stating position desired, a résumé, copies of unofficial transcripts, and the names and addresses of three professional references to: **Nova Southeastern University, Office of Human Resources (HLF), 3301 College Avenue, Ft. Lauderdale, FL 33314.** *Nova Southeastern University is an Affirmative Action/Equal Opportunity Employer.*

ST. LAWRENCE UNIVERSITY VISITING ASSISTANT PROFESSOR OF BIOLOGY

St. Lawrence University (SLU) invites applications and nominations for a position as a Visiting Assistant Professor to begin the fall of 1998. A Ph.D. in the biological sciences is required, with discipline open. This position will be devoted to teaching a section of general biology. There may also be an opportunity to teach upper-level courses. A demonstrated expertise in the use of computers and instructional technologies is preferred. Interested candidates should submit a letter of application, a curriculum vitae, a statement of teaching experience and philosophy that reflects innovative and progressive pedagogies, and have three letters of recommendation forwarded to:

**Dr. T. Budd
Biology Department
St. Lawrence University
Romoda Drive
Canton, NY 13617**

The search committee will review applications as they are received.

St. Lawrence University, chartered in 1856, is the oldest continuously coeducational institution of higher learning in New York State. An independent, private university firmly committed to undergraduate liberal arts education and cross-cultural opportunities, St. Lawrence University offers a unique learning environment. The University's 1,900 students come from most U.S. states and more than two dozen other countries. Canton, the St. Lawrence River Valley, the nearby Adirondack State Park, and the cities of Ottawa and Montreal provide the University community many social, cultural, and outdoor recreation activities. SLU's homepage and the biology homepage is **website: it.stlawu.edu/~biology.**

St. Lawrence University is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, veterans, and persons with disability are encouraged to apply.

CHAIR: SCHUBOT AVIAN HEALTH CENTER. The Department of Pathobiology at Texas A&M University seeks applicants for the Schubot Avian Health Center Endowed Chair. Applicants should have a strong infectious disease background relating to an area of avian health, reproduction, management, genetics, or conservation. The successful applicant will have good interpersonal skills and will be expected to work toward increasing the Center's endowment and further developing the program to a nationally and internationally recognized level. Further information about the Department of Pathobiology is available on our **website: <http://www.cvm.tamu.edu/vtpb>.** Applications will be accepted until a suitable candidate is identified. Application procedure: applicants should submit a letter of application, curriculum vitae, and the names and addresses of three references to: **Schubot Search Committee, Department of Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4467. Telephone: 409-845-5941; e-mail: mzemanek@cvm.tamu.edu.**

POSITIONS OPEN

WOUND HEALING/INFLAMMATION

The Section of Oral Biology at the Ohio State University invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. We are searching for a scientist to complement our research focus in the area of neuroendocrine modulation of inflammatory and immune responses. We are especially interested in individuals using cellular and molecular approaches to study the early events in wound healing or tissue engineering. Possible research areas include: inflammation, angiogenesis, cell trafficking, or extracellular matrix. However, candidates working in other related areas are encouraged to apply. The successful applicant should have a Ph.D. or equivalent and significant postdoctoral experience with a strong record of scholarly achievement. Applicants are expected to develop competitive, extramurally supported research programs, have a strong interest in collaborative research, and excel in graduate and professional education. Send curriculum vitae, a brief statement of research interests, and the names and addresses of three references to:

**Dr. Keith E. Alley
Section of Oral Biology
College of Dentistry
Ohio State University
305 West Twelfth Avenue
Columbus, OH 43210
E-mail: alley.2@osu.edu**

Review of applications will begin in the spring of 1998. *Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*

FACULTY POSITION DEPARTMENT OF DERMATOLOGY Wake Forest University School of Medicine

Applications are invited for a full-time faculty position at the **ASSISTANT PROFESSOR** level to join the Basic Sciences Unit of the Department of Dermatology. Recruitment to this position is being coordinated by Department of Dermatology with the collaboration of the Comprehensive Cancer Center and the Department of Pathology. Currently the unit has ongoing NIH-funded research in cell biology of melanocytes and melanoma. The successful candidate with a Ph.D. degree is expected to establish extramurally funded independent research program, preferably in areas that complement ongoing research in melanoma or other skin cancers. Preference will be given to candidates who have extramurally funded grant support and are involved in translational research. Opportunities for collaborations and joint appointment in other Basic Sciences departments and all major core facilities are available. Start-up funds are available and salary is competitive.

Applicants should send a curriculum vitae, a brief description of career goals, and a list of three references (including their mailing and e-mail addresses, telephone and FAX numbers) to: **Vijay Setaluri, Ph.D., Department of Dermatology, Medical Center Boulevard, Wake Forest University School of Medicine, Winston-Salem, NC 27157.**

The College of Agriculture, Food and Natural Resources of the University of Missouri-Columbia seeks applicants for a **RESEARCH ASSISTANT PROFESSOR** of biochemistry (**website: www.biochem.missouri.edu**) and agronomy to study soybean functional genomics employing combinations of SAGE, macro and microarray technology, and bioinformatics. Innovative approaches are encouraged. The candidate will contribute to and benefit from the strong intellectual support in the plant sciences at Missouri, including plant biotechnology, production, and protection under the Interdisciplinary Plant Program. Funding, including start-up and postdoctoral support, is provided by the Missouri Soybean Merchandising Council. Qualifications include at least two years of postdoctoral training in genomics and/or plant molecular biology and physiology. A curriculum vitae and three letters of reference should be sent to: **Dr. Joe Polacco, Biochemistry Department, 117 Schweitzer, University of Missouri, Columbia, MO 65211 by June 15, 1998.** *MU is an Equal Opportunity/ADA Institution.*

**THE UNIVERSITY OF ILLINOIS
AT CHICAGO
INVITES NOMINATIONS AND APPLICATIONS FOR
THE POSITION OF
REGIONAL DEAN OF
THE COLLEGE OF MEDICINE AT
URBANA-CHAMPAIGN**

The Regional Dean is the chief executive officer and academic leader of the College of Medicine at Urbana-Champaign (COM-UC) and reports to the Dean of the College of Medicine of the University of Illinois at Chicago. The University of Illinois at Chicago College of Medicine is the largest medical school in the nation with four geographically separate sites. The site at Urbana-Champaign, situated on the campus of one of the nation's leading research institutions, supports a vigorous Medical Scholars Program (granting the M.D. in combination with the Ph.D., M.A., M.S., J.D., or M.B.A.) with strong ties to departments in the humanities, social sciences, and engineering as well as the basic medical sciences. The University of Illinois at Urbana-Champaign offers an exceptional environment for basic and clinically oriented research, including campus-level biotechnology research facilities, the Beckman Institute for Advanced Science and Technology and the NSF-supported National Center for Supercomputing Applications. Clinical training is carried out in cooperation with affiliated hospitals (1,090 beds).

Approximately 130 students are enrolled each year into the first-year class, many of whom have made a commitment to rural or urban medicine. Approximately 25-30 (mostly medical scholars students) remain in Urbana for their clinical training, with the remainder moving to regional sites in Peoria and Rockford. The COM-UC basic science faculty maintain vigorous, well-funded research programs. Residency programs in Internal Medicine, Family Practice, and Colon and Rectal Surgery are administered by the COM-UC in cooperation with the affiliated hospitals.

Preference will be given to a candidate with the following qualifications: an M.D. or M.D./Ph.D. degree and the credentials to qualify as a tenured professor; administrative experience; ability to recognize and support excellence in research, teaching, and service activities; commitment to both medical and postgraduate education; ability to relate effectively with the local medical community and affiliated hospitals as well as the academic communities on the Urbana-Champaign, regional, and Chicago campuses; and demonstrated abilities in the acquisition of external funding. We are seeking a dynamic individual interested in leading a financially sound program engaged in innovative approaches to medical education and health care.

Salary is negotiable. The position is available as early as August 1998. Nominations are encouraged. Applications will be held in strict confidence.

To be assured of full consideration, applications (including vitae and the names, addressees, and phone numbers of three references) should be received by May 30, 1998, and sent to:

**Dr. Philip Best, Chair
Search Committee for Regional Dean
Attention: Antoinette Warner (217/333-6524)
College of Medicine at Urbana-Champaign
506 S. Mathews
Urbana, IL 61801**

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

For additional information visit: <http://www.med.uiuc.edu/deansearch.html>

GRANTS



Neose Technologies, a leader in the development of carbohydrate-based products and enzymatic synthesis of carbohydrates, is proud to announce the 1998 recipients of the:

**Glycoscience Research Awards:
Neose Technologies**

The Neose Glycoscience Research Awards were established to fund innovative research in the field of complex carbohydrate function and synthesis. Each awardee will receive up to \$75,000 toward a proposed research study. Awardees must be full-time, tenure track scientists at academic or other non-profit organizations. The only requirement asked of each awardee is the favor of a research progress seminar at Neose once per year.

1998 Recipients:

Robert Haltiwanger, Ph.D. Associate Professor, Department of Biochemistry and Cell Biology, SUNY - Stony Brook, Stony Brook, NY

Research subject: *The Role of Carbohydrate Modifications on the EGF-like Modules of Notch in Notch Signaling.* Dr. Haltiwanger's research is aimed at enhancing our understanding of the role of glycosylation in cellular differentiation and control of embryonic development.

Steven Levery, Ph.D. Co-Technical Director, Complex Carbohydrate Research Center, The University of Georgia

Research subject: *Glycosphingolipids of Mycopathogens: Enzymology and Molecular Controls of their Biosynthesis.* Dr. Levery's research will examine the functional roles and biosynthetic pathways for glycosylinositol phosphorylceramides (GIPCs) in fungal pathogens.

Applications for 1999:

Requests for application forms should be submitted to Neose Technologies before December 1, 1998. Applications will be judged by a panel of external scientists and Neose scientists. Preference will be shown to applicants having less than six years of federal funding, and final decisions will be made by April 1, 1999. Awards can be renewable for one additional year.

Please send requests for applications to:
neose@aol.com, or

GRANT Program • Neose Technologies
• 102 Witmer Road • Horsham, PA 19044

POSITIONS OPEN

RESEARCH ASSOCIATE DEPARTMENT OF MEDICINE Division of Hematology, Oncology, and Transplantation

The Hematology, Oncology, and Transplantation Division of the Department of Medicine at the University of Minnesota Medical School is seeking an experienced individual at the level of Research Associate to conduct research in the Breast Cancer Research Laboratory of David Kiang, M.D., Ph.D. to study the transcriptional regulation of gap junction and tumor suppressor genes.

Minimum requirements: qualified applicant must have a Ph.D. degree in molecular biology; a minimum of two years of postdoctoral training and hands-on experience in the laboratory; experience with molecular biology techniques are essential, including PCR, RT-PCR, gene sequencing and functional analysis, and transfection. The responsibilities of the candidate will be, but are not limited to, pursuing research on the regulation of gap junction connexin genes and tumor suppressor genes that may lead to a reduction of mammary tumor risk; developing a technique to use the virus-mediated gene transfer to pave the road for gene therapy in breast cancer; publishing the results; and seeking grant support.

Condition: 100 percent, 12-month appointment, annual renewable.

Submit curriculum vitae and three letters of recommendation by June 5, 1998, to:

David Kiang, M.D., Ph.D.
Professor of Medicine
Division of Hematology,
Oncology, and Transplantation
Box 286 Mayo
420 Delaware Street S.E.
Minneapolis, MN 55455

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

Biomolecular materials RESEARCH CHEMIST ZP-1320-III (\$39,270 to \$61,432). The Biotechnology Division, National Institute of Standards and Technology (NIST), Department of Commerce, is seeking a Research Chemist for a two-year term appointment. Applicants must have specialized experience in physical biochemistry to apply to measurements of model cell membranes for structure/function studies. Experience should include work with lipids and proteins, vibrational spectroscopy, and methods of surface analysis. Knowledge of diagnostics, tissue engineering, and/or pharmaceutical development is a plus. For technical details, contact: Dr. Anne Plant, Telephone: 301-975-3124; e-mail: anne.plant@nist.gov. Telephone: 301-926-4851 or visit website: http://www.nist.gov/public_affairs/general2.htm for position requirements and copy of the vacancy announcement NIST/98-1516/CAH before submitting an application. Applications must be postmarked by June 12, 1998. Send to: NIST, Administration Building, Room A-123, Office of Human Resources Management, ATTN: NIST/98-1516/CAH, Gaithersburg, MD 20899. DoC/NIST is an Equal Employment/Affirmative Action Employer. U.S. citizenship required.

RESEARCH ASSOCIATE ELECTROPHYSIOLOGY

Applications are invited for the above post to undertake research into the cellular and molecular mechanisms of neurodegenerative diseases and epilepsy. The aim will be to develop electrophysiological assays to analyze effect of molecular changes on membrane properties of nerve cells. Experience in basic electrophysiological techniques essential. A full curriculum vitae, details of relevant experience, and names and addresses of two references should be sent to: Dr. Michel Levesque, Neurofunctional Surgery Center, Cedars-Sinai Medical Center, 8631 West Third Street, Suite 215E, Los Angeles, CA 90048. FAX: 310-967-8318.

Administrative position. HEAD, DEPARTMENT OF BIOMEDICAL SCIENCES at the Oregon State University College of Veterinary Medicine. The departmental faculty have academic, research, and service responsibilities in anatomy, physiology, microbiology, pathology, and toxicology. Ph.D. required; preference given for the D.V.M. Demonstrated abilities in extramurally funded research, budget management, and leadership required. For information: Telephone: 541-737-2098; e-mail: rarickd@cmail.orst.edu. Application deadline is June 15, 1998. Oregon State University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

STAFF SCIENTIST THOMAS A. WALDMANN, M.D.

The Waldmann Laboratory of the Metabolism Branch, National Cancer Institute, National Institutes of Health, is offering a STAFF SCIENTIST position for an individual interested in joining a group focusing on cytokines and their receptors. The candidate must have a Ph.D. or M.D. degree with at least five years of postdoctoral experience. Furthermore, the ideal candidate must have advanced knowledge of recombinant DNA technology as it relates to cytokines and their receptors (e.g., IL-2 or IL-15 receptors) including analysis of DNA and RNA such as RT-PCR, DNA sequencing (both manual and automated), RNase protection assay, S1-mapping, and reporter assay, library construction and screening for genomic or cDNA cloning, production of recombinant proteins in prokaryotic and eukaryotic cells, and transient and stable transfection of eukaryotic cells. Additionally, the candidate must have experience in biochemical analysis of proteins including SDS-PAGE immunoblotting, radiolabeling and binding assay for the analysis of receptors, flow cytometry, cell sorting, and various microscopic techniques including the use of immunofluorescence microscopy as well as laser-confocal microscopy. The candidate also must have experience in handling laboratory animals including the generation and analysis of transgenic and knockout mice. Finally, the candidate must have good organization skills, effective verbal and written communication skills, and extensive expertise in establishing and using computer-controlled equipment on both Macintosh- and Windows-based platforms. The salary range will be \$55,969 to \$72,758. Interested candidates should send a curriculum vitae, bibliography, and a statement of relevant experience as well as a list of three references to: Jean Decker, Building 10, Room 4N115, 10 Center Drive, MSC 1374, Bethesda, MD 20892.

NIH is an Equal Opportunity Employer.

RESEARCH ASSISTANT IN GENETICS AND IMMUNOLOGY

A new full-time permanent position for a BIOLOGIST has been created for a dynamic individual to help conduct genetic and immunologic studies of a recently discovered inherited human lymphocyte disorder. A Master's or doctoral degree is preferred with a minimum of three years of bench research experience in relevant disciplines. A record of scientific accomplishment and management of laboratory facilities are important selection criteria. Starting salary ranges from \$47,066 to \$61,190 commensurate with experience/present salary.

Interested candidates should submit their curriculum vitae, a statement of career goals and research interests, and three (3) letters of recommendation. For application procedures contact: Joann Martin, Telephone: 301-496-4634 and refer to vacancy announcement #AI-98-032.

Applications must be postmarked by May 8, 1998, and sent to: Joann Martin, NIAID, OHRM, Building 31, Room 7A27, 31 Center Drive MSC 2520, Bethesda, MD 20892-2520.

NIH is an Equal Opportunity Employer. U.S. citizenship is required.

BUSINESS MANAGER. Scientific association seeks person to administer business office; manage annual meeting; oversee budget, fund-raising, publishing, membership records, and marketing; assist Board of Directors and committees; act as liaison to other societies. Requires Bachelor's degree, especially business or marketing. Trade association experience, superior oral and written communication, experience coordinating multiple groups, and knowledge of budgets are desirable. Send a cover letter, résumé, and the names and addresses of three references to: Business Manager Committee, Federation of Animal Sciences, 1111 North Dunlap Avenue, Savoy, IL 61874. Deadline: April 15, 1998, or until filled.

RESEARCH ASSOCIATE CELLULAR/MOLECULAR IMMUNOLOGY

Position available immediately to study the role of donor cells/chimerism and soluble HLA in transplant tolerance and chronic rejection. Experience in cellular immunology and experience in molecular biology is preferred. Please send a curriculum vitae and three references to: Dr. William J. Burlingham, Ph.D., Assistant Professor, Division of Transplant Surgery, University of Wisconsin, Madison, WI 53792-7375. E-mail: burlingham@surgery.wisc.edu.

POSITIONS OPEN

SCIENTIFIC ADMINISTRATOR AARON DIAMOND AIDS RESEARCH CENTER

The Aaron Diamond AIDS Research Center (ADARC) is seeking candidates for Scientific Administrator. Applicants must possess a strong background in science, experience in HIV/AIDS, excellent interpersonal and communication skills, the ability to write/edit scientific documents, and some experience in staff management. The successful candidate will assist the Director/CEO in all matters pertaining to science or science administration. Duties will include communicating scientific affairs with external organizations (academia, government, and private sector), handling of IRB/IACUC issues and intellectual property matters, interacting with ADARC faculty and faculty committees, overseeing the function of core laboratory facilities, and managing the content of the ADARC website. Future responsibilities may include assisting the Director with community/media relations, development activities, and day-to-day operations of the institute. Applicants should submit a letter of interest, curriculum vitae, and contact information for at least three references to: Dr. David Ho, Aaron Diamond AIDS Research Center, 455 First Avenue, New York, NY 10016. The Diamond Center is an affiliate of The Rockefeller University. *The Diamond Center is an Equal Opportunity Employer.*

NATIONAL CANCER INSTITUTE METABOLISM BRANCH

The Waldmann laboratory of the Metabolism Branch is offering a MEDICAL STAFF FELLOW position to a Physician interested in joining a group focusing on the molecular genetic, biochemical, and functional roles played by cytokines and their receptors in the control of the human immune response and how their dysregulation can lead to autoimmune immunodeficiency and malignant disorders. The insights gained in the laboratory are translated into novel receptor directed therapeutic approaches. Fellowships are available to individuals who have completed one or more years of residency in medicine or pediatrics. Medical Staff Fellows have modest clinical responsibilities during their two- or three-year Fellowships. Candidates must have a valid U.S. medical license. The possibility exists for loan repayment. This position is available currently and for July 1999. Candidates should send their curriculum vitae and bibliography and three letters of recommendation to: Jean Decker, 10 Center Drive, MSC 1374, Building 10, Room 4N115, Bethesda, MD 20892-1374.

NIH is an Equal Opportunity Employer.

RESEARCH SPECIALIST PROTEIN CRYSTALLOGRAPHY FACILITY MANAGER

Howard Hughes Medical Institute
Johns Hopkins University School of Medicine

A position is available for a Research Manager to oversee and maintain a shared X-ray laboratory located in the Department of Biophysics and Biophysical Chemistry. Equipment includes two rotating anode X-ray generators, three detectors, focusing mirrors, and cryo-cooling devices. Other responsibilities will include installation of computer software and maintenance of an analytical ultracentrifuge. Candidates with a Ph.D. or M.S. degree and prior experience in macromolecular crystallography are preferred. Please send a curriculum vitae and the names of three references to: Dr. Cynthia Wolberger Howard Hughes Medical Institute, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205-2185. Website: www.hhmi.org/jobs. *Equal Opportunity Employer.*

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104

In Vitro Pharmacology

Astra is a pharmaceutical company in a phase of rapid growth. Operations, which are highly international, encompass research, production and marketing of pharmaceuticals through subsidiaries, agents and licensees around the world. The Group has approximately 22,000 employees, of whom 6000 are in Sweden. Sales in 1997 totalled 9 billion Canadian dollars.

Astra Pain Control in Sweden is a research company within the Astra Group with about 500 employees. Its products dominate the world market for local anesthetics. The company has recently established a research and development centre in Montreal, a division of Astra Pharma Inc. Canada, and is actively recruiting for the following position:

Astra Research Centre Montreal is recruiting a senior research scientist (permanent position) for the *in vitro* pharmacology group. The group is involved in drug discovery research in the field of G-protein coupled receptors (GPCR). Applications will only be considered from Ph.D. or M.Sc. level scientists who have extensive experience, both bench and supervisory, in at least two of the following three areas: development of new screening assays for GPCR, pharmacological characterization of new chemical compounds at GPCR, or high-throughput screening at GPCR. The requirements of the position include high initiative, commitment to quality, ability to meet deadlines, and facility in working in a team.

Astra offers a professional work environment to the successful candidate. If you are motivated by the challenges of this position, please send your résumé, and the names of three references, by **May 1, 1998**, quoting reference **DG-IVP**, to:

**Astra Research Centre Montreal,
Human Resources, 7171 Frederick Banting,
Ville St-Laurent, Quebec H4S 1Z9.**

We thank all applicants for their interest, however, only those being considered will be contacted.

No telephone enquiries or agencies, please.

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COURSES & TRAINING

Advanced Biology Training Course in Antarctica, January 1999

"Integrative Biology and Adaptation of Antarctic Marine Organisms"

This National Science Foundation-sponsored course will be held in Antarctica at the United States' McMurdo Station for one month, starting January 1999. The emphasis of the course will be on integrative biology with laboratory-based projects focused on adaptations in an extreme polar environment. Modern laboratory facilities for experimental work, sophisticated operational support for field collection, and offering the program in Antarctica make this course unique. A diverse teaching faculty will offer students the possibility of working on a wide range of Antarctic organisms (bacteria, algae, invertebrates, and fish), as well as working at different levels of analysis (molecular biology to organismal physiological ecology). The teaching modules in the specific areas to be covered during the course will be coordinated by: Drs. Lynda Goff, Univ. of California, Santa Cruz; Deneb Karentz, Univ. of San Francisco; Donal Manahan and Robert Maxson, Univ. Southern California; George Somero, Stanford Univ., and Gretchen Hofmann, Univ. of New Mexico. The specific themes for the 1999 course include: biodiversity and molecular phylogeny; energy metabolism; macromolecular synthesis; membrane physiology; temperature adaptation; and UV-photobiology. The 1999 course will accommodate up to 24 students. This is an international course, open to all nationalities. Applications are invited from graduate students, postdoctoral fellows, and other research scientists who are interested in the biology of Antarctic organisms. Full scholarships are available to each student accepted into the course to cover the cost of travel from home institution to Antarctica, and room and board while in Antarctica. Deadline for completed applications at Antarctic Support Associates is June 15, 1998.

To obtain an application form, write to:

**Director, Science Support
Attn. McMurdo Biology Course
Antarctic Support Associates
61 Inverness Drive East, Suite 300
Englewood, Colorado 80112, USA
Phone: 303-790-8606; Fax: 303-790-9130
(application forms are available on our Web site:
www.asa.org)**



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PROTEIN CRYSTALLIZATION SCIENTIST (BS/MS LEVEL)

Working as part of an interdisciplinary discovery team, you will be responsible for the crystallization of proteins that are molecular targets in pharmaceutical discovery. As a team member of our Structure and Computational Chemistry Group, you will work in a project based environment with crystallographers, structural biologists, computational and medicinal chemists, molecular biologists, protein biochemists, biologists, and pharmacologists.

The successful candidate will have experience in protein crystallization, as well as excellent communication, documentation and interpersonal skills. Experience with protein purification and/or molecular biology techniques would be a plus. (Job Code: PCS)

PROTEIN NMR SPECTROSCOPIST (PH.D LEVEL)

You will work closely with multidisciplinary teams of scientists, including protein crystallographers, molecular modelers, molecular biologists, protein biochemists, and medicinal chemists on Discovery Projects in Pharmaceutical Research.

A Ph.D. in a relevant field with a minimum of 3 years postdoctoral experience in protein structure determination by NMR is required. Successful candidates will have skills in all aspects of protein NMR including pulse sequence programming, data analysis, and structure calculation. Familiarity with protein engineering, molecular modeling, or protein purification is also beneficial. (Job Code: NMR)

For immediate consideration for these positions, please send your CV and three letters of reference, to: **G. Reynolds, Monsanto Company, Job Code: _____ (select from above), 700 Chesterfield Pkwy., Mail Zone: BB5B, Chesterfield, MO 63167.**

SCIENTIST (POSTDOCTORAL LEVEL)

Ph.D. scientist trained in arachidonic acid metabolism and biochemistry wanted to dissect mechanistic role of this pathway in immune cell physiology and in vivo models of inflammation. Training in lipid metabolism and methodology, as well as in cellular biology and tissue culture required.

For immediate consideration for this position, please send your CV, three letters of reference, and a cover letter detailing your experience and scientific interest to: **Dr. Philip Needleman, Senior Vice President and Chief Scientist, Monsanto Company, 800 North Lindbergh Blvd., Mail Zone: A3SC, St. Louis, MO 63167.**

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POSITIONS OPEN

POSTDOCTORAL ASSOCIATE RESEARCH POSITIONS The Miami Project to Cure Paralysis

Applications are invited for two Postdoctoral/Research Associate positions at The Miami Project to Cure Paralysis, University of Miami School of Medicine. Positions are available beginning June 1998 to study mechanisms of neural transplants in pain modulation and functional recovery following peripheral and central nervous system injury. Candidates must have expertise in rodent pain models and understanding of recent advances in persistent pain mechanisms and neural plasticity. Preference will be given to candidates with additional expertise in one or more of these areas: immunocytochemistry, cell culture, neurochemical assays, or molecular biology. A Ph.D. or equivalent in neuroscience or related discipline is required. Send curriculum vitae, brief description of research interests, and three (3) references to: **Odessa T. Simmons, The Miami Project to Cure Paralysis, P.O. Box 016960 (R-48), Miami, FL 33133. Equal Employment Opportunity/Affirmative Action.**

POSTDOCTORAL POSITION STEM CELL MOLECULAR BIOLOGY

The Institute for Gene Therapy and Molecular Medicine at the Mount Sinai School of Medicine, is seeking individuals (Ph.D. or M.D.-Ph.D.) with strong interest in hematopoiesis or developmental biology are sought to investigate the functions of novel genes in the regulation of hematopoietic stem cells and progenitors.

The ideal candidate must have expertise in at least one of the following areas: cDNA cloning, gene transfer, protein analysis, flow cytometry, bone marrow purification, ES cell technology.

We offer an excellent salary and benefits package. Please send curriculum vitae and references to: **Schickwahn Tsai, M.D., Ph.D., Institute for Gene Therapy and Molecular Medicine, Box 1496, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-803-6740. We are an Equal Opportunity Employer fostering diversity in the workplace.**

MARK WEISS MEMORIAL FELLOWSHIP IN INFECTIOUS DISEASES. Postdoctoral Fellowship available immediately for Ph.D. in immunology/virology to study immunopathogenesis of HIV disease; the candidate will work closely with the Rush Section of Infectious Diseases and Department of Immunology/Microbiology. The project involves studies on cellular and molecular mechanisms responsible for immune restoration following institution of highly active antiretroviral therapies. Experience with molecular biology techniques and other tissue culture assays is desirable. Salary is highly competitive and includes benefits. Completed applications must be received by June 15, 1998. Please send current curriculum vitae and name and addresses of three references to: **Dr. Alan L. Landay, Department of Immunology/Microbiology, Rush-Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612. Rush-Presbyterian-St. Luke's Medical Center is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE HARVARD MEDICAL SCHOOL

Outstanding candidates with experience in molecular and cell biology are encouraged to apply to join group studying mechanisms of vascular wall injury and remodeling. Experience in library screening, transcriptional regulation, apoptosis, and signal transduction in vascular cells is highly desirable. Send curriculum vitae and three references to: **Dr. Stella Kourembanas, Associate Professor of Pediatrics, Division of Developmental and Newborn Biology, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-355-7677. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study mechanisms of recovery from experimental parkinsonism. Experience in molecular biology, neurochemistry, and neuroanatomical techniques required. *Must be U.S. citizen or permanent resident.* Send curriculum vitae and names of references to: **Dr. J. S. Schneider, Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University, 1020 Locust Street, 521 JAH, Philadelphia, PA 19107. E-mail: jay.schneider@mail.tju.edu. Equal Opportunity Employer.**

POSITIONS OPEN

TECHNICAL DIRECTOR OF MEDICAL RESEARCH LABORATORY

The Naval Submarine Medical Research Laboratory (NSMRL) in Groton, Connecticut seeks a civilian **TECHNICAL DIRECTOR** to provide the scientific leadership and professional management necessary to plan, coordinate, and advocate the Laboratory's research program. NSMRL currently conducts basic and applied biomedical research, with an emphasis on submarine and diving environments, along with sensory sciences and human interface issues for tactical display systems. Qualified candidates must have a Ph.D. or equivalent in biomedical science, behavioral science, or a related scientific/engineering field with extensive applied research experience. A documented history of research, management, and securing external funding from diverse sources for research programs is essential. Send resume and list of three references to: **Dr. Heller, Naval Submarine Medical Research Laboratory, Box 900, Groton, CT 06349-5900.**

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POSTDOCTORAL FELLOW BLOOD COAGULATION BIOCHEMISTRY

New York Blood Center is the nation's premier independent blood research, collection, and distribution organization. Currently, we have a position available to study the fibrinolytic mechanisms of matrix metalloproteinases. Applicants should hold a Ph.D. or an M.D.-Ph.D. degree by the time the position begins. The position requires strong training in biochemistry and/or biophysics; previous experience in blood coagulation biochemistry would be a strong asset. The research will provide the applicant with a unique opportunity to examine clot dissolution events in purified and plasma systems. Competitive salary and benefits package. Please send your curriculum vitae to: **Human Resources Department—MK, New York Blood Center, 310 East 67th Street, New York, NY 10021. FAX: 212-570-3195. Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.**

POSTDOCTORAL POSITIONS IN IMMUNOPATHOGENESIS

Available immediately to study immunopathogenesis of infectious and autoimmune diseases in murine models. Present studies include T cell effector function in the central nervous system during viral infection and autoimmune disease, persistent central nervous system and liver viral infections, and processing/presentation of CTL epitopes for potential vaccines and CTL memory. Experience with *in vivo* models essential. Send curriculum vitae and the names of three references to: **Stephen Stohlman, Ph.D., or Cornelia Bergmann, Ph.D., Departments of Neurology and Molecular Microbiology and Immunology, University of Southern California School of Medicine, MCH 142, 1333 San Pablo Street, Los Angeles, CA 90033. FAX: 213-225-2369; e-mail: stohlman@hsc.usc.edu, cbergman@hsc.usc.edu.**

UNIVERSITY OF CALIFORNIA, IRVINE

POSTDOCTORAL POSITIONS (two) available to study JAK-STAT signaling pathways, with a focus on the molecular interactions regulating the interferon-alpha pathway. A recent Ph.D. in cell and/or molecular biology is required. Experience in protein purification is desired but not essential. Please e-mail or send curriculum vitae and names of references to: **John J. Krolewski, Department of Pathology, University of California, Irvine, Medical Sciences D440, Irvine, CA 92697-4800. E-mail: jkrolews@uci.edu.**

The University of California, Irvine: rooted in education; enriched by diversity.

POSTDOCTORAL POSITION immediately available in NIH-funded laboratory to study cell biological aspects of ion transport in C1 secretory epithelia with emphasis on signal transduction and the cytoskeleton. This position requires a Ph.D. and/or M.D. with expertise in relevant protein biochemistry and/or electrophysiology. Please send curriculum vitae and names of three references to: **Jeffrey B. Matthews, M.D., Department of Surgery, Beth Israel Deaconess Medical Center, ST-928, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-667-7756; e-mail: jmatthew@bidmc.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP ANIMAL PLANT COEVOLUTION American Museum of Natural History

A Research Fellowship is available for a Postdoctoral Fellow to investigate molecular aspects of plant/animal coevolution through the Lewis and Dorothy Cullman Program for Molecular Systematic Studies. The Fellowship supports independent research in association with the Museum's resident staff. Interaction with the staff of the New York Botanical Garden also is expected. Researchers interested in phylogenetic aspects of plant/animal coevolution are encouraged to apply; the Museum has modern laboratories including several automated sequencers. The position is for one year, starting in summer or early autumn 1998, but may be extended for a second year based on performance. Applications are due by 15 June 1998.

Request application forms from: **Department of Ornithology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024. An Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Positions available (Ph.D. or M.D.) for research training in experimental hematology and vascular biology in an NIH-sponsored program at the Cardeza Foundation, Thomas Jefferson University. Areas of interest include molecular and cellular aspects of angiogenesis, gene expression by vascular cells, biology of the platelet and endothelial GpIb complexes, megakaryocytic development and gene expression, oxygen-regulated gene expression, role of lipid-binding proteins in thrombosis, and bone marrow transplantation immunology. *U.S. citizenship or permanent residency required.* Please send curriculum vitae and three reference letters to: **Dr. Sandor S. Shapiro, Cardeza Foundation for Hematologic Research, 1015 Walnut Street, Philadelphia, PA 19107-5099. E-mail: sananto1@jefflin.tju.edu. Equal Opportunity Employer.**

TWO POSITIONS AVAILABLE AT MOREHOUSE SCHOOL OF MEDICINE

The Department of Pathology is looking for two qualified **RESEARCH ASSOCIATES** to support our research activities in the field of gene expression, neurobiology, and vascular cell biology. A Ph.D. in biology or biochemistry or a M.S. degree with extensive experience is required. Successful candidates will have laboratory experience in cell biology with expertise in tissue culture and immunocytochemistry. Molecular biology including PCR technology is a must. Our studies involve cell lineage commitment in neuronal cells, response of cells to injury, and vascular remodeling. To apply contact: **Kamla Dutt, Ph.D., Telephone: 404-752-1769 or Sandra Harris-Hooker, Ph.D., Telephone: 404-752-1768. Or by mail: Morehouse School of Medicine, Department of Pathology, 720 Westview Drive S.W., Atlanta, GA 30310. Equal Opportunity Employer.**

Two **POSTDOCTORAL POSITIONS** immediately available to work on molecular biology/biochemistry of steroid hormone action and aging. (1) Molecular Biologist with experience in protein-DNA interaction; (2) Biochemist with expertise in purification of low abundance proteins (e.g., transcription factors). Send curriculum vitae and names of three references to: **Dr. Arun K. Roy, Professor of Cellular and Structural Biology, The University of Texas Health Science Center, San Antonio, TX 78284-7762. FAX: 210-567-3846. The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORATE with background in chemistry and with experience in molecular biology and protein purification to work on coagulation-related proteins. Contact:

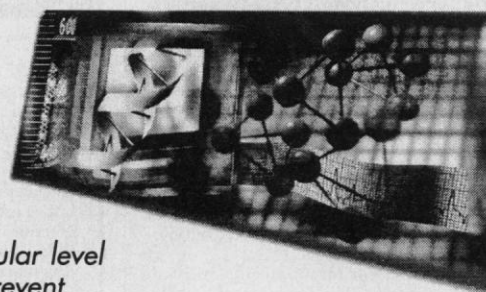
**Darrel Stafford
University of North Carolina—Chapel Hill
Department of Biology, CB #3280
442 Wilson Hall
Chapel Hill, NC 27510-3280
E-mail: dws@email.unc.edu.**

POSTDOCTORAL POSITIONS available studying the genetics and biochemistry of the *Saccharomyces cerevisiae* (PSI) element. Background in molecular, biological, and biochemical techniques is required and research experience with yeast desired. Send curriculum vitae and references to: **Dr. Daniel C. Masison, Laboratory of Biochemistry and Genetics, NIDDK, Building 8, Room 225, 8 Center Drive, MSC 0830, Bethesda, MD 20892-0830. E-mail: dm147z@nih.gov.**

STAFF SCIENTIST

The Molecular Interactions Resource of the Bioengineering and Physical Science Program, Office of Research Services, National Institutes of Health, is searching for a doctoral level Physical Scientist to participate in the Program's collaborative research and methodological development program. The Molecular Interactions Resource conducts studies on the characterization of complex interacting systems such as protein-protein, protein-nucleic acid, membrane-protein, and antigen-antibody interactions. In addition, the Resource conducts studies for the rapid characterization of unstable proteins and performs hydrodynamic shape determinations.

QUALIFICATIONS: The successful candidate will be at least three years postdoctoral, will have a doctoral degree in biophysics, physical chemistry, or a comparable discipline, and must have the skills and experience necessary to enable immediate productive participation in the research program described above. It is **mandatory** that applicants **must** possess a high level of expertise in the application of **both** analytical ultracentrifugation (using single- and multi-wavelength techniques) and optical biosensors to the study of molecular interactions. The successful candidate must meet the following seven (7) criteria of expertise and should address each of the criteria, in writing, as part of the application package: (1) A solid and strong reputation established by a significant number of publications of high quality, creativity, and innovation in both analytical ultracentrifugation and optical biosensors as applied to diverse biomedical research investigations; (2) Experience in both transient state and equilibrium analytical centrifugation methods as applied to homogeneous, heterogeneous and mixed associating systems; (3) Active participation in national and international meetings and other presentations; (4) Demonstrated skill and experience in the development and application of mathematical models, particularly for simulation and data analysis of both equilibrium and transient state data from analytical ultracentrifugation and optical biosensors; (5) Demonstrated skill and expertise in the development of numerical methods and in programming; (6) In-depth knowledge of thermodynamics as applied to biological molecular interactions; (7) Demonstrated creativity in the development of instrumentation and experimental methodology. U.S. Citizenship or permanent residence status is required. **HOW TO APPLY:** Interested persons may contact Dr. Marc Lewis, Acting Director, Molecular Interactions Resource at (301) 496-9044 or by e-mail at mslewis@helix.nih.gov for additional information about the position. Application packages must include a curriculum vitae, bibliography, copies of selected publications, a detailed description of your knowledge, skills, and abilities in each of the seven criteria listed above, and letters of recommendation from three references who can provide an evaluation of your professional qualifications with respect to the requisite qualifications. Application packages should be sent to: Leslie Everheart, National Institutes of Health, ORS Human Resources Branch, 31 Center Drive, MSC 2157, Building 31, Room 4B-41, Bethesda, Maryland 20892-2157. Applications must be postmarked by May 18, 1998. Salary: This is a permanent position with a salary range from \$55,969 to \$72,758 (includes locality) per annum.



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SCIENTIST AND ASSOCIATE SCIENTIST Drug Metabolism

Due to the dynamic nature of the drug discovery process and the expanding role of drug metabolism in drug discovery support, we require highly capable scientists with the ability to use state-of-the-art instrumentation such as LC/MS and automated liquid handling equipment. The individuals we seek will develop techniques to assess metabolic stability of new drug candidates utilizing microsomes, hepatocytes or liver slices, and process data using spreadsheets. Studies may involve the use of radiolabeled compounds.

To qualify for our Scientist position, you will need an MS degree in Biology, Biochemistry or Chemistry and 5-8 years of experience or a BS/BA degree and 7-10 years of experience. To qualify for our Associate Scientist position, you will need an MS degree in Biology, Chemistry or Biochemistry and 2-4 years of experience or a BS/BA degree and 4-7 years of experience supporting drug discovery projects. Demonstrated ability to work both independently and as part of a team is critical. To be considered for these positions, please reference Dept. DD98-NY-PC.

ASSISTANT SCIENTIST/SCIENTIST OR POSTDOCTORAL FELLOW Infectious Diseases - Virology

We have excellent opportunities for scientists to focus on studies in antiviral chemotherapy. To qualify, you will need a BS/MS degree or PhD (Postdoctoral Fellow) and expertise in molecular biology or biochemistry. Experience in virology/antiviral research is essential; expertise in hepatitis B or C viruses (or flaviviruses) is a definite plus. Strong organization, interpersonal and communication skills are essential. To be considered for these positions, please reference Dept. DMS-MS.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, Human Resources, 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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POSITIONS OPEN

POSTDOCTORAL POSITIONS MOBILE SELF-SPLICING INTRONS

Dynamics of self-splicing introns are studied at the levels of RNA, DNA, and protein accessories. Projects include analysis of catalytic RNAs and DNA-based intron mobility using genetic, biochemical, and structural approaches. Broad choice of projects. Experience in genetics, DNA recombination mechanisms, RNA splicing, protein structure, and/or nucleic acid chemistry desirable. Competitive, federally funded salary (through Health Research, Inc.).

Interested candidates should forward their curriculum vitae and have three letters of reference sent to: Dr. Marlene Belfort, Wadsworth Center, New York State Department of Health and Department of Biomedical Sciences, State University of New York, Box 22002, Albany, NY 12201-2002. FAX: 518-474-3181; Telephone: 518-473-3345; e-mail: marlene.belfort@wadsworth.org.

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POSTDOCTORAL POSITION NEUROBIOLOGY OF INSECT LOCOMOTION/ROBOTICS

Available immediately. Our project studies sensory feedback in insect walking to provide data for the construction and control of autonomous legged robots. Current experiments utilize high-speed three-dimensional video to image leg movements during extracellular recordings of nerve/muscle activities in freely walking insects. Applicants with experience in insect neurobiology and video imaging are preferred. Please send letter of interest, curriculum vitae, and e-mail address and names of three references to: Dr. Sasha Zill, Department of Anatomy, Cell and Neurobiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704. Telephone: 304-696-7384; FAX: 304-696-7290. Women and minorities are strongly encouraged to apply.

POSTDOCTORAL POSITIONS available in the laboratory of Dr. Alan McLachlan, Department of Molecular and Experimental Medicine, The Scripps Research Institute. Studies are focused on the relationship between the regulation of hepatitis B virus transcription and viral biosynthesis. A Ph.D. in molecular biology and experience with yeast two-hybrid analysis, mammalian cell culture, and/or transgenic mice is highly desirable. Please send curriculum vitae and the names of three references to: Dr. Alan McLachlan, Department of Molecular and Experimental Medicine (SBR16), The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-784-2113; e-mail: mclach@scripps.edu. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS DUKE UNIVERSITY

Bioorganic/nucleic acid chemistry/biochemistry. Recent Ph.D.'s (U.S. citizenship or permanent residence) for initial one-year appointment in multidisciplinary research environment. Projects involve combinatorial chemistry, DNA synthesis, photochemistry, surface derivatization and characterization, microfabrication (DNA "chips"), RNA analysis, molecular computation, enzyme kinetics. New laboratories in the Levine Science Research Center.

Curriculum vitae, publication list, and references (with contact information) to: Prof. M. C. Pirrung, Department of Chemistry, Duke University, P.O. Box 90346, Durham, NC 27708-0346. FAX: 919-660-1591.

POSTDOCTORAL POSITION

A joint Postdoctoral Fellowship is available at the Harvard Medical School to work on interactions between G protein subunits and their effectors using fluorescence techniques. The applicant must have a background in biophysical techniques and be able to begin by June 1, 1998. Please send curriculum vitae and names of three references to: Eva J. Neer, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-732-5132; e-mail: neer@calvin.bwh.harvard.edu. Or David E. Clapham, Children's Hospital, 1309 Enders, 320 Longwood Avenue, Boston, MA 02115. E-mail: clapham@rascal.med.harvard.edu. Both hospitals are Equal Opportunity Employers.

POSITIONS OPEN

POSTDOCTORAL POSITIONS (two) in molecular biology. The positions involve cloning and expression of proteins related to research in molecular evolution or molecular genetics of glycolipid synthesis. Experience with PCR, cloning, and expression is essential. Send curriculum vitae and names of three references to: David Kaplan, Tufts University, Biotechnology Center, Chemical Engineering, 4 Colby Street, Medford, MA 02155. FAX: 617-627-3991; e-mail: dkaplan1@tufts.edu.

POSTDOCTORAL POSITIONS LABORATORY OF MOLECULAR CARDIOLOGY NHLBI, NIH, Bethesda, Maryland

The Laboratory of Molecular Cardiology investigates the function and regulation of the expression of non-muscle myosin II. We are particularly interested in the mechanism responsible for regulating these genes in cardiac and neuronal cells. Applicants should have a strong background in molecular and cell biology and biochemistry and less than four years of postdoctoral experience.

Gene regulation: the regulation of nonmuscle myosin II heavy chain gene expression during cell proliferation and muscle and neuronal cell differentiation is being studied at the level of transcription and alternative splicing of pre-mRNA. Contact:

Sachiyo Kawamoto, M.D., Ph.D.
National Institutes of Health
Building 10, Room 8N202
10 Center Drive MSC 1762
Bethesda, MD 20892-1762
Telephone: 301-496-1912
FAX: 301-402-1542
E-mail: kawamots@nih.gov

Cardiac and brain development: ablation of nonmuscle myosin II-B results in defects in the development of the mouse heart and brain. We are seeking candidates with a strong background in molecular and cellular biology to study the mechanism underlying these defects. Contact:

Robert S. Adelstein, M.D.
National Institutes of Health
Building 10, Room 8N202
10 Center Drive MSC 1762
Bethesda, MD 20892-1762
Telephone: 301-496-1865
FAX: 301-402-1542
E-mail: ra19t@nih.gov

FOUNDATION GRANTS ADMINISTRATOR

Individual with a graduate degree in science sought to administer the awards program of the Cancer Research Fund of the Damon Runyon-Walter Winchell Foundation. This is a position which requires good management skills and a creative approach to maximizing the position. Office located in midtown Manhattan. Good benefits. Contact by mail:

Rebecca R. Kry
Executive Director
The Cancer Research Fund
of the Damon Runyon-Walter Winchell Foundation
675 Third Avenue, 25th Floor
New York, NY 10017

POSTDOCTORAL POSITION available for a Ph.D. to develop vaccines for *Chlamydia trachomatis*. Experience in protein analysis including purification is required. Background in tissue culture, molecular techniques, and animal models is preferred. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Luis M. de la Maza, M.D., Ph.D., Department of Pathology, Medical Sciences, Room D440, University of California, Irvine, CA 92697-4800. E-mail: lmdelama@uci.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in cancer gene therapy is available immediately at Rutgers, The State University of New Jersey. Ph.D. in molecular biology or related area is required. Contact: K. Son, e-mail: kson@rci.rutgers.edu; FAX: 732-445-3134.

POSITIONS OPEN

MOLECULAR BIOLOGY AND HOST DEFENSE

The Oral Infection and Immunity Branch, National Institute of Dental Research, NIH is searching for a collaborative **STAFF SCIENTIST** with expertise in molecular biology, gene targeting, and the generation of transgenic mice to conduct studies on novel components of innate host defense. NIH Staff Scientists are considered to have highly specialized and superb scientific skills and expertise, and perform a critical function as key members of a team of researchers whose project goals are defined by a tenured Principal Investigator. The resources available to a Staff Scientist are derived from those assigned to the Principal Investigator, including space, funds, equipment, and personnel. 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 Scientist's capabilities. Candidates for this position must have an M.D. or Ph.D., be U.S. citizens, resident aliens, or nonresident aliens with a valid employment-authorized visa; and have a strong peer-reviewed publication record in the stated areas of research. Salary ranges from \$55,969 to \$72,758.

Applicants may apply by submitting the following materials: a curriculum vitae, bibliography, copy of doctoral degree(s), and at least two letters of reference from non-collaborators. Further information about the position may be obtained from: Ms. Esther Cohen, NIDR Personnel Office, Building 31, Room 2C39, 31 Center Drive, MSC 2290, Bethesda, MD 20892-2290. Telephone: 301-496-6971. All application materials must be received by Ms. Cohen by the closing date of May 18, 1998.

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POSTDOCTORAL POSITION IN MOLECULAR PARASITOLOGY

A **POSTDOCTORAL POSITION** is available to study the molecular and cell biology of membrane transport proteins in *Leishmania* and African trypanosomes. Principle areas of interest include subcellular targeting mechanisms of glucose transporters and molecular characterization of nucleoside transporters. Applicants should have a background in molecular biology and/or biochemistry, but previous experience in parasitology is not necessary. Please submit a letter of interest, curriculum vitae, and names of references to: Dr. Scott M. Landfear, Department of Molecular Microbiology and Immunology, Oregon Health Sciences University, 3131 S.W. Sam Jackson Park Road, Portland, OR 97201. E-mail: landfear@ohsu.edu. OHSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study signal transduction focusing on the PLC γ , PIP2 pathway and intracellular protein transport involving spectrins. Projects comprise biochemical, molecular, and genetic analyses of the biogenesis of hepatocyte polarity utilizing cell cultures and *in vivo* embryonic liver explant cultures (*Oncogene* 15:2361-2368, 1997). Applicants with a background in protein chemistry are desirable. Please send a cover letter, curriculum vitae, and the names of three references to: Dr. L. Mishra, Laboratory of Developmental Molecular Biology, P.O. Box 29545, Washington, DC 20017-0745.

POSTDOCTORAL ASSOCIATE

Postdoctoral position available immediately to study the molecular, cellular, and hormonal biology of fertility cycle modulation of tumor growth and metastasis. Preferred background in *in vivo* tumor biology, immunology, and molecular biology. Applicants must be permanent residents or U.S. citizens. Send statement of interest, goals, résumé, and names of three references to: W. Hrushesky, M.D., or P. Wood, M.D., Ph.D., Stratton VA Medical Center (111-C), 113 Holland Avenue, Albany, NY 12208. E-mail: hrushesky.william_m+@albany.va.gov.

POSTDOCTORAL POSITION available July 1, 1998, to investigate mechanisms underlying the regulation of chloride transport mediated by a volume-regulated anion channel. Electrophysiological experience required. Send curriculum vitae and names of three references to: Sarah S. Garber, Ph.D., Allegheny University of the Health Sciences, MCPxHahnemann School of Medicine, Department of Physiology, 2900 Queen Lane, Philadelphia, PA 19129. E-mail: garber@auhs.edu.

CELL MOTILITY CYTOSKELETON

Postdoctoral Positions

University of Massachusetts Medical Center

Postdoctoral research positions are available in a number of the highly interactive laboratories studying cell motility and/or the cytoskeleton. Investigators and their areas of interest include:

- Roger Craig:** Molecular structure and contractile mechanism of muscle
Stephen Dosey: Mitotic spindle and centrosome function, regulation, dynamics
Mitsuo Ikebe: Motor function of myosin superfamily, regulation of cell motility
Stephen Lambert: Membrane-cytoskeleton interactions in axonal function
Elizabeth Luna: Membrane skeleton dynamics, motility, adhesion, signal transduction
Dannel McCollum: Cell cycle control and cytokinesis in fission yeast
Peter Pryciak: Cell polarity, chemotaxis, and signal transduction in yeast
Greenfield Sluder: Control of mitosis, centrosome reproduction, cell cycle checkpoints
Richard Vallee: Microtubule motors, cytoskeleton, endocytosis
Yu-li Wang: Dynamics of the cytoskeleton in living cells
George Witman: Motor protein function and assembly; cilia and flagella
Zuoshang Xu: Neurodegeneration in ALS mouse models, neuronal cytoskeleton

Detailed descriptions of these research programs are available on the Cell Motility Group page at: <http://www.ummed.edu/dept/oor/motility.html>.

Both beginning and senior postdoctorals are invited to apply. Applicants for postdoctoral positions in one or more of the listed laboratories should send a curriculum vitae, description of research experience, and names and addresses of three references to the investigator(s) of interest: *to* Andrea Werme, UMMC – Worcester Foundation Campus, 222 Maple Avenue, Shrewsbury, MA 01545 USA.

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Cancer Genetics & Tumor Suppressor Genes

August 19 - 23, 1998

Douglas Hanahan, UCSF
 Ed Harlow, Massachusetts General Hospital
 David Livingston, Dana-Farber Cancer Institute
 Carol Prives, Columbia University
 Bert Vogelstein, Johns Hopkins University
 Terri Grodzicker, Cold Spring Harbor Laboratory

Proposed Sessions:

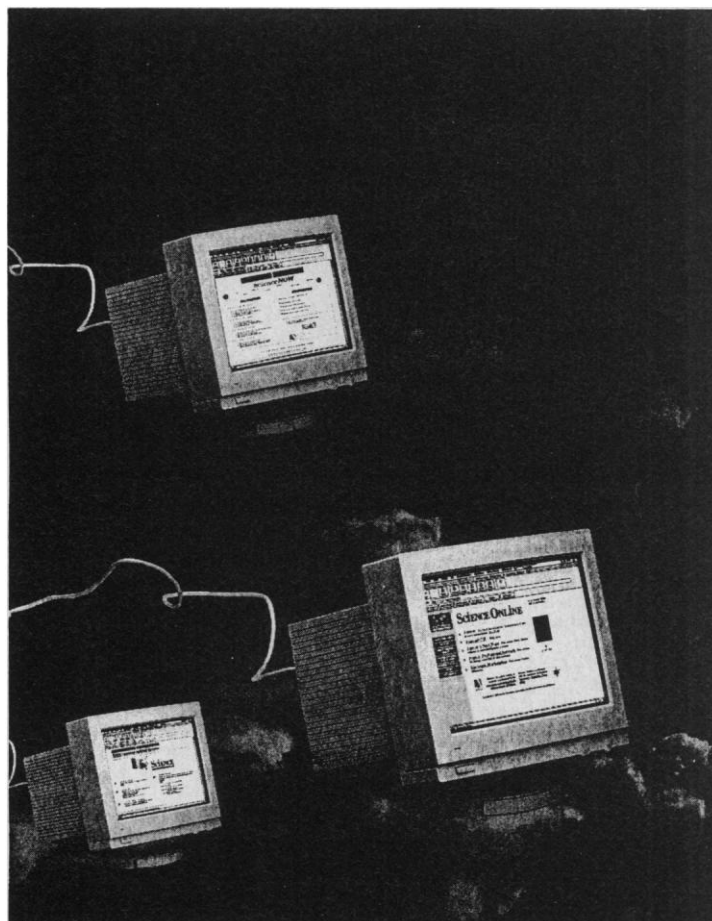
- Cancer Genetics • Animal Models
- Control of Cell Cycle & Growth
 - Tumor Suppressor Genes
 - Tumor Progression Models
 - Transcription • Apoptosis
- The Role of Viruses in Cancer
- Tumor Suppressor and Oncogenes as Targets for Cancer Therapy
- DNA Repair & Cancer Etiology

Abstract Deadline: June 3rd, 1998

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Meetings & Courses Office
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POSITIONS OPEN

UCSF AND CHIRON MECHANISM OF ACTION OF DNA VACCINES

POSTDOCTORAL POSITION in cellular and molecular immunology available for up to two years beginning July 1, 1998, to work jointly at Chiron Technologies and Department of Anatomy/Cardiovascular Research Institute at the University of California, San Francisco (UCSF). Studies will evaluate the mechanism of action of DNA vaccines. Experience in cellular and molecular immunology and strong interest in applying novel fluorescence and confocal microscopic techniques and FACS to study vaccine-induced immunity in mice are essential. Two or more years of previous postdoctoral experience strongly recommended. Send curriculum vitae, summary of current research, and names of three references to: **Professor Donald M. McDonald, Box 0452, Department of Anatomy, University of California, San Francisco, CA 94143-0452. FAX: 415-476-4845; e-mail: dmcd@itsa.ucsf.edu. Or: Dr. Gary Ott, Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608. FAX: 510-923-4265; e-mail: gary_ott@cc.chiron.com.** Deadline: May 15, 1998. *UCSF and Chiron Corporation are Equal Opportunity/Affirmative Action Employers.*

POSITION AVAILABLE IN OPTICAL IMAGING IN CELLULAR AND SYSTEMS NEUROPHYSIOLOGY

The Wilson group, at the University of California, San Diego, Department of Chemistry and Biochemistry, has a **POSTDOCTORAL or RESEARCH FACULTY**-level opening available for an accomplished Physiologist who wishes to help develop and use advanced optical techniques to observe and understand neuronal function at the cellular and systems levels, in a collaboration among ultrafast optical and neuroscience groups. Example projects include high-speed functional imaging with variety of non-linear multi-photon techniques; interferometric imaging of transmembrane potential via refractive changes; second- and third-harmonic generation as a contrast mechanism for optical sectioning; photostimulation and manipulation by ultrafast pulses; and laser Doppler imaging of cortical blood flow.

For more information about this position, or to receive application process information, visit our website: <http://www-wilson.ucsd.edu>; e-mail: wgiobops@ucsd.edu. Positions commensurate with experience and qualifications, with salaries based on UC pay scales. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE.

Cell biology/neuroscience. Position available for Cell Biologist or Neuroscientist to join ongoing studies on ion channel expression in normal and injured neurons. Experience in immunocytochemistry, *in situ* hybridization, RT-PCR and cloning, and/or patch clamp methods is desirable. Send curriculum vitae, letter of interest, and three letters of reference to:

Stephen G. Waxman, M.D., Ph.D.
Department of Neurology
Yale University School of Medicine
P.O. Box 208018
New Haven, CT 06520-8018

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MYOGENESIS OF SKELETAL MUSCLE SATELLITE CELLS

POSTDOCTORAL POSITION available immediately to study the role of FGF receptors during recruitment of myogenic progenitors in postnatal rodent muscle. Training in cell and molecular biology is required. Experience with manipulating gene expression in cell culture and/or *in vivo* is preferred. Send curriculum vitae and names of three references to: **Zipora Yablonka-Reuveni, Ph.D., Department of Biological Structure, Box 357420, University of Washington, Seattle, WA 98195. Telephone: 206-685-2708; FAX: 206-543-1524; e-mail: reuveni@u.washington.edu.** *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION available June 1998 or later at the National Institutes of Health in Phoenix, Arizona to identify and characterize susceptibility genes for type 2 diabetes and its predictors. Experience in molecular biology required; in cell culture and biochemistry desirable. Send curriculum vitae, summary of relevant experience, and list of references to: **Dr. Paska Permana, Clinical Diabetes and Nutrition Section, NIDDK, NIH, 4212 North 16th Street, Phoenix, AZ 85016. FAX: 602-200-5335.**

RESEARCH TRAINING IN CARDIOVASCULAR SCIENCE

POSTDOCTORAL POSITIONS funded by NIH are available to study the cellular and molecular mechanisms involved in the regulation of the cardiovascular system. This is a multidisciplinary training program involving scientists with research expertise in biochemistry, pharmacology, physiology, microbiology, molecular biology, and medicine. Research topics include neural mechanisms, vascular biology, signal transduction, metabolism, and protein regulation. The successful candidates may receive training in cardiology and pulmonary research or in basic biomedical research with scientists who are using the latest technology to explore the mechanisms of cardiovascular disease. Qualified Ph.D. or M.D. candidates should send a letter of interest and curriculum vitae to: **Dr. Vernon S. Bishop, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756.**

Award of the annual stipend is limited to U.S. citizens and permanent residents. The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is immediately available to study the involvement of the viral transactivator, Tat, in HIV-1 latency. Experiments will involve the use of RT-PCR and other molecular and cellular methods to study patterns of transcriptional processivity in PBMC from infected individuals. For further information consult website: <http://lewis.sfsu.edu/obr/obr.postdocwebpage.html>. Send curriculum vitae and names of three references to: **Dr. Joseph Romeo, Center for Biomedical Laboratory Sciences, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132.**

Equal Opportunity Employer/Americans with Disability Act.

POSTDOCTORAL POSITION available immediately for a recent Ph.D. to investigate the molecular regulation of RNA polymerase III transcribed genes. The project involves characterization of the functions and protein interactions of a newly discovered transcription factor. Training in molecular biology is essential and familiarity with yeast-two hybrid and cDNA library screening is advantageous. Send curriculum vitae and names of three references to: **Dr. Martyn Darby, Kimmel Cancer Institute, 233 South 10th Street, Philadelphia, PA 19107. E-mail: m_darby@lac.jci.tju.edu.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS in cell adhesion to study integrin signaling and associated proteins in platelets or cell lines. Skills in molecular biology or transgenics helpful. Separate project to study sickle cell adhesion to ECM. Send curriculum vitae and names of three references to: **Dr. Leslie V. Parise, Department of Pharmacology, CB#7365, University of North Carolina, Chapel Hill, NC 27599. E-mail: parise@med.unc.edu.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION to study tyrosine kinases in synapse formation and function. Src kinases that phosphorylate the acetylcholine receptor will be studied using molecular and cellular approaches. Projects involve investigating the (i) regulation of Src kinases by innervation and extracellular factors, (ii) signal transduction cascades, and (iii) role of Src kinases in acetylcholine receptor expression, clustering, and channel kinetics. Contact: **Dr. Sheridan Swope, EPO8 Research Building, Georgetown University Medical Center, 3970 Reservoir Road, Washington, DC 20007.**

POSITIONS OPEN

POSTDOCTORAL POSITION BRAIN TUMOR RESEARCH

The Laboratory of Molecular Neuro-Oncology is dedicated to understanding how genetic alterations, occurring during the malignant progression of human astrocytoma, elicit malignant biological behavior. Projects involve PCR, cloning, transfection, and functional analyses of genes involved in this process in human cancer cells. For related examples see: *Nature Genetics* 8:171-176, 1994; *Proc. Natl. Acad. Sci.* 92:1008-1012, 1995; *J. Exp. Med.* 186:1201-1212, 1997; *Oncogene* 16: 321-326, 1998.

Successful candidates will be highly motivated, hold a Ph.D. in molecular and cellular biology or related area, and possess excellent written and verbal English skills. Experience with recombinant DNA technology (PCR, cloning, sequencing, DNA/RNA/protein analysis, expression studies) and cell culture is desired. Experience with models of angiogenesis, *in situ* hybridization, or phage display is an advantage.

Competitive compensation and benefits available. Applicants should send an introductory letter, curriculum vitae, and three references by May 17, 1998, to:

Erwin G. Van Meir, Ph.D., Director
Molecular Neuro-Oncology Laboratory
Department of Neurosurgery
Emory University School of Medicine
Winship Cancer Center
Room B-5103, Building B
The Emory Clinic
1365-B Clifton Road N.E.
Atlanta, GA 30322 USA
Telephone: 404-778-5227
FAX: 404-778-4472
E-mail: evanmei@emory.edu

Equal Employment Opportunity/Minorities/Females Employer.

MALARIA PROGRAM NAVAL MEDICAL RESEARCH INSTITUTE

POSTDOCTORAL POSITIONS are available immediately to study the molecular biology and immunology of malaria. Doctoral degree with experience in molecular biology or cellular immunology is essential. Send curriculum vitae and names of three references to: **Dr. Stephen L. Hoffman or Dr. William O. Rogers, Malaria Program, Naval Medical Research Institute, 12300 Washington Avenue, Rockville, MD 20852. FAX: 301-295-6171; e-mail: rogersb@nmripo.nmri.nmnc.navy.mil.**

Immediate opening available for a **POSTDOCTORAL or RESEARCH FACULTY** position to study the genetics of lipoprotein disorders. Qualifications are M.D. and/or Ph.D., with formal training in genetics, i.e., pedigree analysis, quantitative techniques, and molecular techniques. Benefits and salary competitive. Contact: **Gustav Schonfeld, M.D., Washington University School of Medicine, 660 South Euclid Avenue, Campus Box 8066, St. Louis, MO 63110. Telephone: 314-362-8060; FAX: 314-362-8015; e-mail: gschonfe@imgate.wustl.edu.**

POSTDOCTORAL POSITION. Position available to study the mechanism by which *Salmonella flagellin* induces cytokine production in monocytes. Ph.D. training in molecular biology and bacterial pathogenesis or cytokines essential. Send curriculum vitae and the names of three references to: **Dr. Steven B. Mizel, Department of Microbiology and Immunology, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. Wake Forest University School of Medicine is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to study CFTR chloride ion channels using structure/function approaches and molecular modeling. Experience in electrophysiological or molecular biological methods required. Contact: **Dr. Nael McCarty, Center for Cell and Molecular Signaling, Emory University, Telephone: 404-727-7400; website: <http://www.emory.edu/WHSC/MED/PHYSIOLOGY>.** *Emory University is an Equal Opportunity Employer.*

HUMAN OBESITY PHYSIOLOGIST

The Phoenix Epidemiology and Clinical Research Branch, NIDDK, invites applications for a tenure track position in physiology of human obesity. The applicant must have research experience and scientific accomplishments in the physiology of human energy balance. The applicant will be expected to pursue an independent research program as well as collaborate with a multidisciplinary group of scientists studying causes of human obesity and type 2 diabetes.

The Branch is located in Phoenix, Arizona. Applicants should send a curriculum vitae and list of publications, copies of major publications, a summary of research accomplishments, a plan for future research, and three letters of reference to **Dr. Simeon Taylor, Chair, Search Committee, Diabetes Branch, National Institute of Diabetes and Digestive and Kidney Diseases, Bldg. 10, Rm#9S211, National Institutes of Health, Bethesda, Maryland 20892-0810.**

POSITION DESCRIPTION:

The successful candidate will contribute to the scientific goals of the Phoenix Epidemiology and Clinical Research Branch (PECRB) of NIDDK. A major research area of NIDDK and an important part of the research program of PECRB are studies of the etiology and pathogenesis of human obesity and type 2 diabetes mellitus particularly among Native Americans. The research involves a multidisciplinary team of scientists, including epidemiologists, physiologists, diabetologists, biochemists, cell biologists and molecular geneticists all working in the same scientific area. Advanced physiologic methods are employed such as dual x-ray absorptiometry, whole body calorimetry and use of deuterium/oxygen 18 with mass spectrometry to measure human body composition, substrate utilization rates and energy expenditure. The physiologist using these methods works closely with clinical investigators and epidemiologists as well as with molecular biologists and geneticists to identify environmental and genetic determinants of obesity and type 2 diabetes.

CHAIRPERSON, DEPARTMENT OF CANCER GENETICS Roswell Park Cancer Institute Buffalo, NY

Roswell Park Cancer Institute is recruiting a Chairperson for the newly reorganized Department of Cancer Genetics. A record of outstanding research accomplishments and administrative experience and the vision to develop an outstanding center in cancer genetics are prerequisites. The support for this position is exceptional and includes the resources to recruit several new faculty. Prospective candidates must have a PhD and/or MD degree and an active research program within the broad field of cancer genetics.

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

Interested individuals should submit their curriculum vitae and a one or two page summary of current research interests (before June 1, 1998) to: **Dr. Jane Clifford Azizkhan, Chairman, Search Committee for the Chair of Cancer Genetics, Professor, Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263.**

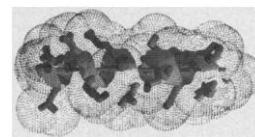
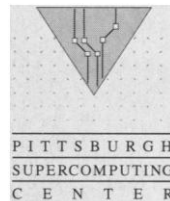


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application deadline: May 1

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direct inquiries to:

Nancy Blankenstein
Pittsburgh Supercomputing Center
4400 Fifth Avenue, Room 230C
Pittsburgh, PA 15213
biomed@psc.edu or 412-268-4960

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available immediately to perform neurophysiology experiments in behaving monkeys to study functions of brain monoaminergic systems. The successful applicant will join an active group recording noradrenergic and dopaminergic neurons in locus coeruleus and midbrain during performance of cognitive tasks. Position is within the newly created Laboratory of Neuromodulation and Behavior, an interdisciplinary group of Neuroscience Researchers. Applicants must have a strong academic background with neurophysiology experience. Competitive salary and benefits. Send curriculum vitae and names of three references to: **Dr. Gary Aston-Jones, Professor, Department of Psychiatry, University of Pennsylvania, VAMC (151), University and Woodland Avenues, Philadelphia, PA 19104.**

POSTDOCTORAL POSITION available in July 1998 to study the interactions of the malaria parasite proteins with the host erythrocyte plasma membrane. Candidates with a Ph.D. degree and experience in cell and molecular biology or protein biochemistry are encouraged to apply. Send curriculum vitae and two references to: **Dr. Athar Chishti, Department of Biomedical Research, St. Elizabeth's Medical Center, 736 Cambridge Street, Boston, MA 02135. FAX: 617-789-3111; e-mail: achishti@semc.org.**

CALCIUM CHANNEL REGULATION

Several **POSTDOCTORAL POSITIONS** are available to study the role of Ca channels in mammalian fertilization and the mechanism of channel modulation. Expertise in patch clamp methods or in image processing-enhanced fluorescence microscopy is desired, but all strong candidates will be considered. Submit a curriculum vitae, with reprints and letters, to: **Dr. Harvey M. Forman, Department of Anatomy and Cell Biology, Tufts University School of Medicine, Boston, MA 02111. E-mail: hform01@tufts.edu.**

GLOBAL OPPORTUNITIES

FOOD MICROBIOLOGIST COLLEGE OF AGRICULTURE Sultan Qaboos University Sultanate of Oman

Sultan Qaboos University, the national university of Oman, invites applications for a Food Microbiologist (**ASSISTANT, ASSOCIATE, or FULL PROFESSOR**). The incumbent will be a faculty member in the Department of Food Science and Nutrition, College of Agriculture.

The selected candidate will undertake teaching and research in food microbiology or related subjects in food sciences. The successful candidate is expected to develop and improve the academic programme in a specialized area of food science and contribute to advanced courses including student research projects, seminars, and other duties assigned by the Head of Department. The incumbent will supervise technicians and other support personnel and collaborate with scientists in other departments of the University, government agencies, and private sectors in the development of research appropriate for improving the food and agriculture in Oman.

Applicants should possess a Ph.D. degree in food science or related fields from a reputable university. Evidence of sensitivity to cultural diversity and fluent in both spoken and written English are necessary. Excellent communicative skills and a strong sense of commitment and enthusiasm for food science and nutrition programming are essential. Candidates with at least two years of experience in a similar appointment of a recognized and reputable academic institution, who have demonstrated a desire for professional growth, are desirable.

Apart from a very attractive tax-free salary, the University offers free furnished accommodation, annual leave with round-trip air tickets, end-of-service gratuity, and free medical treatment in government hospitals in the Sultanate.

Interested candidates are requested to submit a letter of application and full résumé, quoting our Ref. ADV/AGRI/01/98, to:

**The Director, Personnel Affairs
Sultan Qaboos University
P.O. Box 50, Al-Khod - 123
Sultanate of Oman
E-mail: personel@squ.edu.om**

POSITIONS OPEN

POSTDOCTORAL SCIENTISTS IN AIDS PATHOGENESIS AND VACCINE DEVELOPMENT Ohio State University Medical Center

Positions are available immediately for study of HIV pathogenesis and immune response against HIV. Candidates with M.D. and/or Ph.D. with background in molecular biology and/or cellular immunology are encouraged. Experience in viral immunology is preferred. Competitive salary and fringe benefits. Send curriculum vitae, list of references, and statement of research interests to: **Kunal Saha, M.D., Ph.D., c/o Brenda Cain, Children's Hospital Research Foundation, 700 Children's Drive, Columbus, OH 43205. FAX: 614-722-3273; e-mail: cainb@pediatrics.ohio-state.edu.**

CORRECTIONS

Due to an error on the part of SCIENCE, the advertisement for a DEAN OF SCIENCE position at The Hong Kong University of Science and Technology, run on page 1803 of the 13 March 1998 issue, contained an incorrect logo. The ad text, however, was correct. We regret any confusion this may have caused our readers.

GLOBAL OPPORTUNITIES

HEAD OF BIORESOURCE AND AGRICULTURAL ENGINEERING DEPARTMENT COLLEGE OF AGRICULTURE Sultan Qaboos University Sultanate of Oman

Sultan Qaboos University, the National University of the Sultanate of Oman, invites applications for Head of Department (Full or Associate Professor), Bioresource and Agricultural Engineering Department, College of Agriculture.

The incumbent will provide leadership for the overall organization and administration of teaching, research, and service activities of the Department. The successful candidate is expected to develop, improve, promote, and stimulate quality and relevant academic programmes in the Department, and to provide leadership, active participation in curriculum development, and inspiration to the staff and students to pursue high standards of learning and scholarship. The incumbent is responsible for the selection, training, assignment, and evaluation of personnel; planning and budgeting for facilities and equipment; recommending the hiring, promotion, termination, and discipline of staff; liaison with relevant departments in the University and government agencies and private sectors; exploiting extramural support and collaborative research; and implementing research projects and disseminating research findings.

Applicants should possess a Ph.D. degree in bioresource/biosystem/agricultural/soil and water/food engineering from a reputable university, with professional credentials of a high order, sufficient to meet the criteria for Full or Associate Professorship. Proficiency in spoken and written English is required. Candidates with at least 10 years of experience in a full-time appointment on the academic staff of a recognized and reputable academic institution, who have demonstrated the professional growth and potential for leadership, are desirable.

Apart from a very attractive tax-free base salary, the University offers free furnished accommodation, two-year renewable employment contract with end-of-service gratuity, annual leave with return air tickets, free medical treatment in Government Hospitals.

Interested candidates are required to submit a letter of application and full curriculum vitae, quoting our Ref. ADV/AGRI/2/98, to:

**The Director, Personnel Affairs
Sultan Qaboos University
P.O. Box 50, Al-Khod - 123
Sultanate of Oman
E-mail: personel@squ.edu.om**

COURSES & TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND SCIENTISTS

A one-week intensive course sponsored by the Massachusetts Institute of Technology. July 27-31, 1998, Cambridge, Massachusetts. **Dr. Richard J. Cohen**, Program Director. Basic principles of cardiovascular physiology, cardiovascular medicine, diagnostic and therapeutic technologies. Contact: **Director of the MIT Summer Session, Telephone: 617-253-2101.**

COURSES & TRAINING

WORKSHOP ON MOLECULAR EVOLUTION. Marine Biological Laboratory, Woods Hole, August 2-August 14, 1998, plus extended special topics August 15-August 21, 1998.

A series of lectures and mini-symposia exploring multiple approaches to molecular and genome evolution with a computer laboratory for phylogenetic and sequence analysis. Current topics in molecular evolution including the theoretical basis for comparative sequence analysis and phylogenetic tree construction, comparative analysis of genomes, origins of organelles, evolution and diversity of microorganisms, and molecular approaches to population biology will be addressed. Enrollment limited to 60 students. Latest course information may be found on the website: www.mbl.edu/html/GUIDE/education.TOC.html.

Co-Directors: **Mitchell L. Sogin**, Marine Biological Laboratory, and **Daniel Davison**, Bristol-Myers Squibb P.R.I. Faculty: **Michael Cummings**, Marine Biological Laboratory; **W. Ford Doolittle**, Dalhousie University; **Shawn Edy**, Washington University School of Medicine; **Terry Gaasterland**, Argonne Laboratory; **David Hillis**, University of Texas at Austin; **Mary Kuhner**, University of Washington; **James Lake**, University of California at Los Angeles; **David Landsman**, National Library of Medicine; **Laura Landweber**, Princeton University; **David Maddison**, University of Arizona; **Michael Miyamoto**, University of Florida; **Spencer Muse**, University of Missouri; **Gary Olsen**, University of Illinois; **William Pearson**, University of Virginia at Charlottesville; **Peter Raven**, Missouri Botanical Garden; **Monica Riley**, Marine Biological Laboratory; **Janet Siefert**, Rice University; **Gary Stormo**, University of Colorado; **David Swoford**, Smithsonian Institution, Washington D.C.; **Steven Thompson**, Washington State University; and others to be announced.

This course is sponsored in part by the Canadian Institute for Advanced Research, NASA, and NSF.

Course Fee: \$850 (includes room and board but not Special Topics Session). Special Topics Session: \$400 (includes room and board). Application Deadline: May 12, 1998.

For information and application forms contact: **Carol Hamel, Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543-1015. Telephone: 508-289-7401; e-mail: admissions@mbi.edu; website: www.mbl.edu. An Equal Opportunity/Affirmative Action Institution.**

APPLIED MOLECULAR BIOLOGY

The University of Maryland Baltimore County is accepting applications for its unique 12-month M.S. program in applied molecular biology. Through two hands-on-intensive laboratory courses, research internship off/on campus and four companion lecture courses, this comprehensive program prepares students for research positions in industry or academia. Some Fellowship assistance is available. Information/applications: **University of Maryland Baltimore County, Department of Biology, Baltimore, MD 21250. Telephone: 410-455-3669; website: http://www.umbc.edu/biosci.**

CONFERENCE

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Contact: **BioConferences International, Telephone: 914-834-3100, ext. 652; e-mail: hmatysko@liebertpub.com.**

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PRIZE

Nominations are solicited for the fourth annual **MARCH OF DIMES PRIZE IN DEVELOPMENTAL BIOLOGY**

This prize, consisting of a medal and \$100,000, is awarded to an investigator who has made a seminal discovery in biology: one that has revealed a new principle of relevance to birth defects, and who has not previously received a major prize for this work.

We seek nominations of candidates for the 1999 award. Please make your recommendations on or before September 15, 1998.

Nomination forms available upon request from: **Michael Katz, M.D., Vice President for Research, March of Dimes Birth Defects Foundation, 1275 Mamaroneck Avenue, White Plains, NY 10605; Telephone: (914) 997-4555; Facsimile: (914) 997-4560; E-mail: mkatz@modimes.org.**

The previous recipients were:

1998 - Dr. Davor Solter

for pioneering the concept of genomic imprinting.

1997 - Drs. David Hogness and Walter Gehring

for their respective studies of homeobox genes in *Drosophila*.

1996 - Drs. Beatrice Mintz and Ralph L. Brinster

for their respective studies that culminated in the development of transgenic mice.

EUROPEAN OPPORTUNITIES

Call for Proposals

BMBF Competition "BioFuture"

The Federal Ministry of Education, Science, Research and Technology (BMBF) intends to give **younger scientists** from Germany and abroad who are already **experienced in heading a research group** the opportunity to work on new, basic research-oriented approaches in the biosciences in Germany, independently and in their own team in order to generally improve chances for a further career in science or economy in Germany or to aim at self-employment in the private sector (e.g., by setting up businesses or spin-out companies) in the medium term.

The teams (staff: 1 group leader, 1-2 postdocs, 1-2 doctoral students, 1-2 technicians; investments and expendable materials; depending on technical support required each) are to work for a period of 5 years on topics in the frontiers of biology and neighbouring disciplines such as chemistry, physics, mathematics, informatics, engineering sciences, nanotechnology, etc.

For the projects selected by a jury, nonrepayable grants will be awarded in the form of project funding.

Deadlines: May 15, 1998 (first call), July 15, 1998 (second call), January 15, 1999 (third call).

Further information:

Internet: <http://www.kfa-juelich.de/beo/biofutur.htm>
or Forschungszentrum Jülich GmbH
Projekträger Biologie, Energie, Umwelt
D-52425 Jülich, Germany
tel.: +49 2461 61-4296 or -3855;
fax: +49 2461 61-2730 or -2690

GLOBAL OPPORTUNITIES

FACULTY OF MEDICINE AND HEALTH SCIENCES UNITED ARAB EMIRATES UNIVERSITY

The Faculty of Medicine and Health Sciences in the United Arab Emirates University is seeking to recruit suitably qualified individuals to the positions of:

**Assistant Professor, Associate Professor and Professor
in the**

Departments of Biochemistry & Pharmacology

The appointees will be expected to support the mission of the Faculty of Medicine, pursue relevant research activities and contribute to undergraduate teaching. The Faculty of Medicine in Al Ain was established in 1986, and has since developed a highly regarded integrated and problem-based undergraduate curriculum. There also exists ample opportunity for research with the recent completion of our new medical school complex with well equipped research laboratories.

Applicants for these exciting and challenging appointments should hold a Bachelor's degree in Medicine, Biochemistry or Pharmacology and a higher University Degree (PhD) in Biochemistry or Pharmacology. Evidence of teaching undergraduate medical students and quality research productivity in one of the following areas: cell signalling, cancer biology and genetic/metabolic disease including diabetes or obesity is essential. Successful candidates will receive a competitive tax-free salary and attractive benefits including housing, air tickets and assistance with dependants' school fees.

Please direct informal inquiries to Prof. W. Montague, Vice Dean, +971 3676292 (tel), +971 3 672001 (fax) or email montague@medic.uaeu.ac.ae

Formal applications should include a comprehensive curriculum vitae, and a covering letter to:

Personnel Department (C/o. CP Nair)
Faculty of Medicine and Health Sciences
UAE University
P O Box 17666
Al Ain
United Arab Emirates

We anticipate successful candidates to be in post by January 1999; but applications will be accepted until the positions are filled.



THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

The Hong Kong University of Science and Technology, opened in October 1991, comprises four Schools: Science, Engineering, Business and Management, and Humanities and Social Science. The University's mission is to advance learning and scholarship; to contribute to the territory's economic and social well-being; and to promote research, development, and entrepreneurship. Current enrollment is 7,000, with students admitted at both undergraduate and postgraduate levels.

The University invites applications for the following post:

DEAN OF SCIENCE

The School of Science comprises five Departments: Biochemistry, Biology, Chemistry, Mathematics, and Physics. The School currently enrolls about a quarter of the University's undergraduate and postgraduate students. The Dean of the School is an executive and full-time appointment and will be a member of the senior administrative team of the University responsible for overseeing various aspects of the development of the University. The appointee will play a leading role in promoting the academic development of the School of Science and providing leadership to the School in its diverse activities including teaching, research, and resources management. Applicants should be renowned scholars with relevant experience in academic administration at a senior level.

Salary and Conditions of Service

Salary will be very competitive with generous fringe benefits; housing is also provided at a charge of 7.5% of salary. Initial appointment will be on a three-year contract with a gratuity payable upon successful completion of the contract.

Applications

Further particulars can be obtained from the **Personnel Office, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong** [by fax (852) 2358 0700, or by e-mail (careers@usthkust.hk), or from the University's World Wide Web homepage (<http://www.ust.hk/>)]. Applications/nominations together with a curriculum vitae and the name and address of three referees should be sent to **Professor Shain-Dow KUNG, Chairman of the Search Committee for Dean of Science**, before **15 May 1998**, but the search will continue until a suitable appointment is made.

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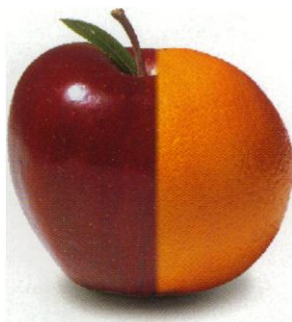
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