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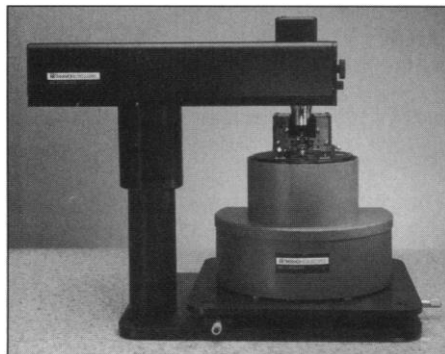
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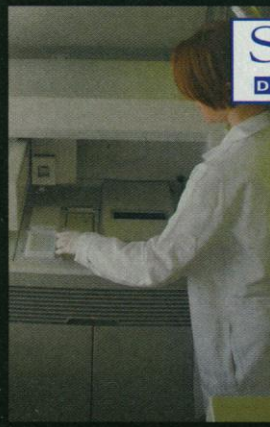
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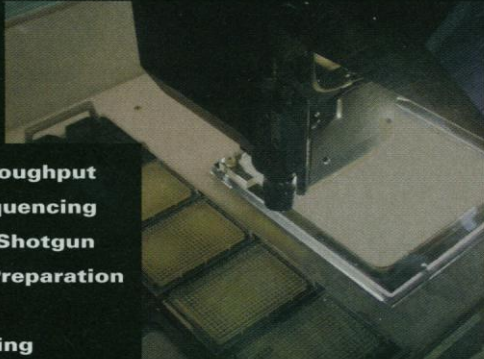


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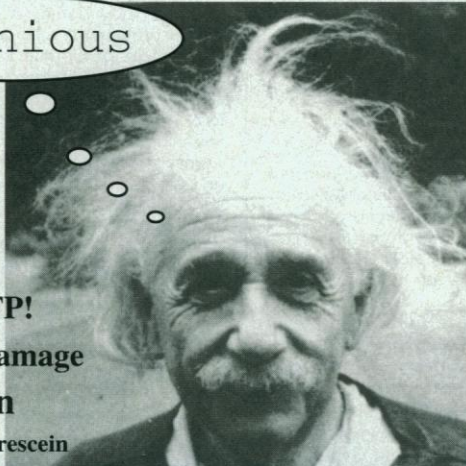
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CHAIR, DEPARTMENT OF BIOLOGY

The University of Southern Indiana invites applications for the position of Chair of the Department of Biology beginning August 2000. The department, one of five housed in the Pott School of Science and Engineering Technology, has 11 full-time faculty and approximately 300 undergraduate majors. Additional information about the department may be found on its **website:** <http://deepnet.usi.edu/biology>. Reporting to the Dean of the School, the Chair is responsible for total departmental operations, including curriculum, personnel, and budgetary matters. The Chair also teaches undergraduate courses in the department. Ph.D. in biology or related field required. Area of specialization open but ideally will complement those currently represented in the department. Candidates must provide evidence of success in teaching and research. Rank and salary dependent on credentials and experience. The University is committed to excellence in teaching, scholarship and professional activity, and service to the University and community. Review of applications will begin January 17, 2000, and continue until position filled. Submit letter of application, curriculum vitae, and the names/addresses/telephone numbers/e-mail addresses of three professional references to: **Professor Jay Fredrich, Chair, Biology Chair Search Committee, Pott School of Science and Engineering Technology, University of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712.**

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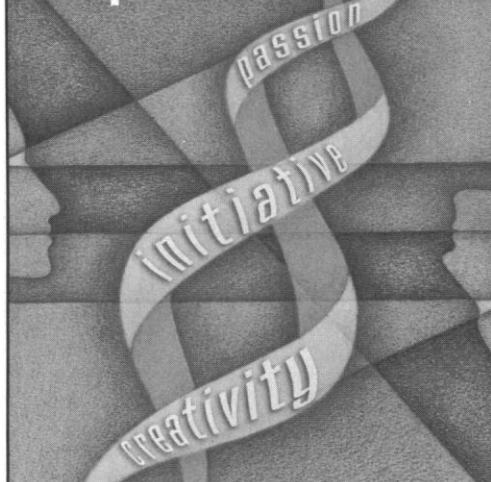
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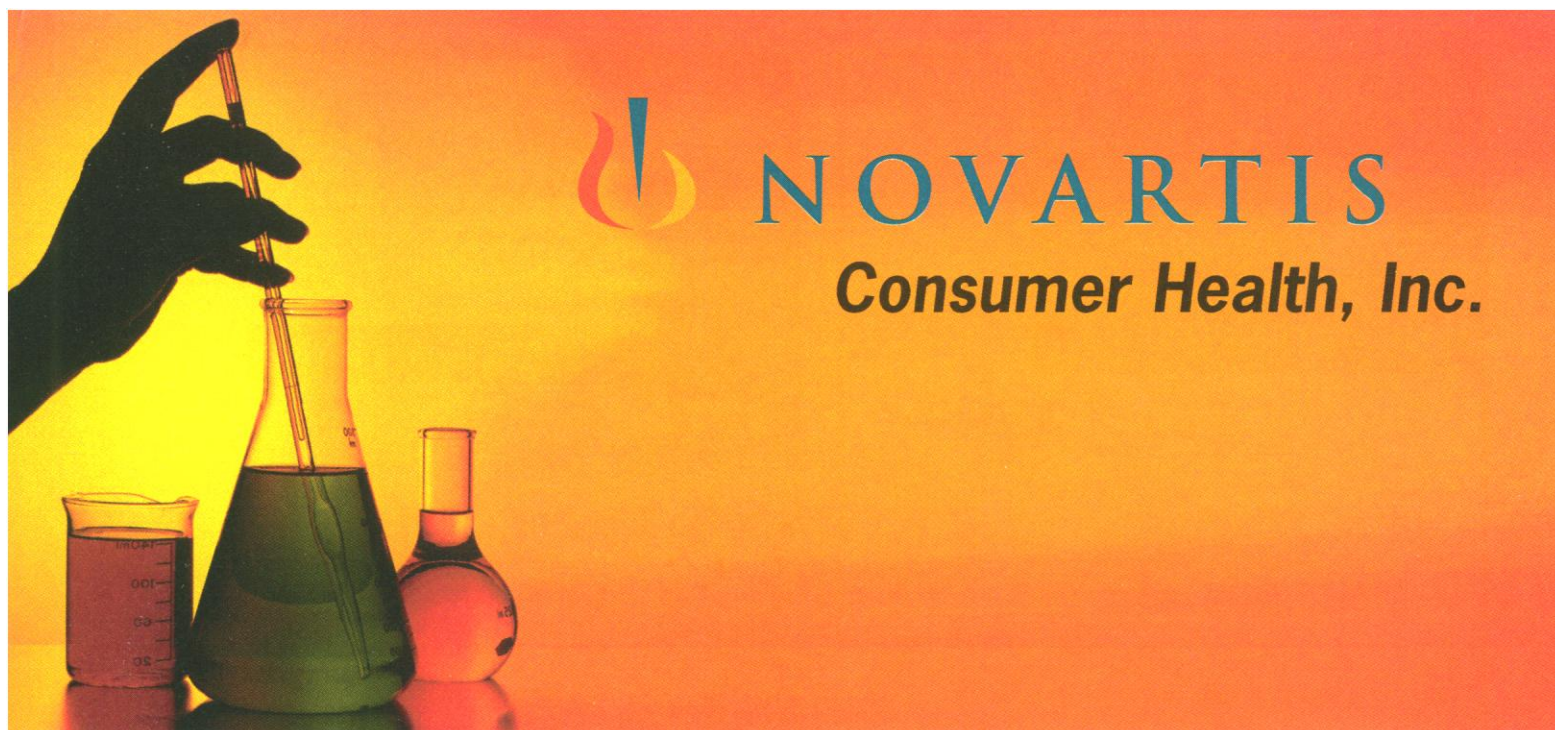


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Molecular Biology Q/C Scientist

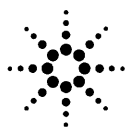
Requires an MS or Ph.D. in Biochemistry or equivalent. Responsibilities include validation of DNA deposition technology and surface chemistry using quantitative hybridization and fluorescence based assays. Additional responsibilities include statistical analysis of DNA-based assay performance and directing 1 or more technicians. Must have experience in DNA and RNA manipulation as well as excellent statistical, analytical and organizational skills. Prior experience in industrial Q/C or analytical setting is a plus. Req #: 663488

Biochemist

You will work with internal and external collaborators to design and implement model systems to demonstrate the performance of DNA-based assays for gene expression monitoring. Requires a Ph.D. in Biochemistry, Genetics, Molecular Biology, or equivalent and extensive experience with DNA/RNA manipulations, amplification techniques, and standard molecular biology methodology. Must have strong statistical, analytical and organizational skills. Excellent communication skills are crucial. Req #: AKS1456

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It's Time To Make A Clear Career Decision.

The overall mission of the District is to manage water resources of South Florida for the benefit of the region, while conserving water supply, protecting water quality, and restoring/preserving natural resources.

Director, Kissimmee River

We are seeking highly talented and broadly trained individuals to apply for a vacant Division Directorship. Individual will guide and manage on-going planning, research, engineering and implementation activities related to the management of water resources in the Kissimmee River Basin. This is a diverse temperate/subtropical region supporting wetlands, lakes and the Kissimmee River. The division has approximately 20 professional and technical staff involved with hydrodynamic modeling, ecological research and collaboration on a multi-million dollar restoration project.

Requirements for the position are a Master's degree in Engineering, Biology, Environmental Sciences or related disciplines or a P.E. certification. Additional qualifications include 7+ years of experience directing, managing or conducting scientific research or water resource projects. Job reference #000061.

Director, Ecological Technologies

Will manage multi-disciplinary staff and programs in fulfillment of the mission of improving and preserving water quality. Programs include research, implementation and optimization of water quality improvement strategies, including constructed wetlands, advanced treatment technologies (chemical and biological treatment processes), and Agricultural Best Management (BMPs). Also, the division is responsible for programs to address water quality issues on mercury methylation, pesticides and other toxics.

A Master's degree in Environmental Sciences, water resources related engineering or related discipline or P.E. Must also possess 7+ yrs progressive experience directing, managing, or implementing scientific research and/or water resource projects. Job Reference #000062.

Director, Coastal Ecosystems

Candidate will manage multi-disciplinary staff in fulfillment of the division's mission of developing, planning and implementing programs in the coastal ecosystems of the District including Indian River Lagoon, St. Lucie Estuary, Lake Worth Lagoon, Biscayne Bay, Ten Thousand Island, Naples Bay and Caloosahatchee Lagoon. A Master's degree in Engineering, Environmental Sciences, Planning or related disciplines or P.E. Must also possess 7+ years progressive experience directing, managing or implementing engineering, environmental sciences or planning water resource projects. Job reference #000063.

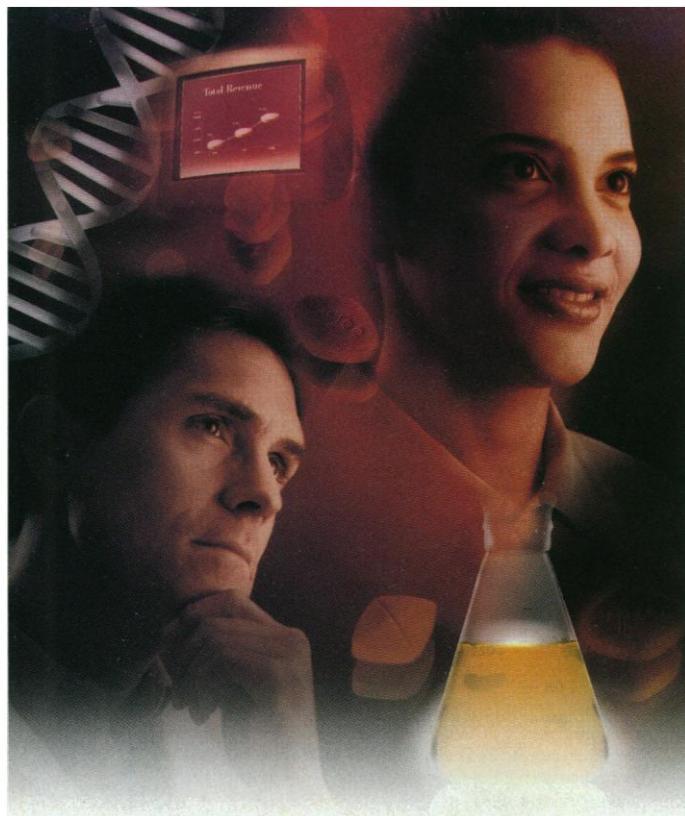
For consideration, please send your resume with job reference # to: hrjobs@sfwmd.gov

Or mail your resume to:

Human Resource Department
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, FL 33406

For more information on these positions as well as other positions available at SFWMD, please visit: www.sfwmd.gov. We offer a comprehensive compensation package featuring tuition reimbursement, life, vision, dental and health benefits. So don't just go with the flow of the water in Florida, apply your expertise to safeguard it.

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ANIMAL HEALTH OPPORTUNITIES

Manager, Regulatory Affairs

You will provide regulatory input to project teams using your knowledge of current regulatory requirements and evolving trends relative to the registration of animal health products (pharmaceuticals and vaccines) in the US and Canada. DVM and/or PhD in a relevant science field and proven regulatory expertise are required; experience with FDA and USDA highly preferred. The ability to facilitate effective interactions with management, technical and regulatory personnel is crucial to this role. Ad Code: 9928722SCI

Senior Research Investigator

You will lead the Animal Health Biological Discovery site and global project teams focused on livestock metabolic disease (particularly acidosis) using animal model development, vaccine design and testing, and immunological, bacteriological and enzymatic assays. Your qualifications should include a PhD, 7+ years postdoctoral experience, and a strong record of microbiological, biochemical, physiological and/or immunological research on metabolic disease of livestock. DVM and large animal experience desired. Ad Code: 9930420SCI

Assistant Scientist – Fermentation

You will be responsible for the development and scale-up of processes from flasks through multi-liter laboratory and pilot plant bioreactors, as well as for technology transfer to production. BS degree or equivalent is required and 1-2 years experience desired, ideally in applying fermentation technologies to the production of recombinant proteins in bioreactors. Knowledge of sterile technique, cell/bacteria culture, medium optimization, quantitation, process validation, and GLP/GMP operations is a must. Ad Code: 9924181SCI

Assistant Scientist/Scientist – Bacteriology/Virology

You will be involved in the development and validation of new bioanalytical assays for viral vaccines, as well as the development and/or application of new technologies. This will include drafting bioanalytical component of clinical protocols and registration filings. Requires a BS in Biology, Biochemistry or Biotechnology and 1-3 years relevant experience; or an MS plus 6 years experience, including proficiency with sterile techniques, cell culture, and assay development. Experience developing diagnostic and serological reagents/tests and working with basic molecular biology, protein separation, and chromatography techniques desired. Ad Code: 9930200SCI

Assistant Scientist/Scientist – Microbiology

You will perform immunological and chemical assays for viral and bacterial vaccines, support process development and clinical testing, submit raw data for bioanalytical component of clinical protocols and registration filings, and implement new technologies. You will need a BS/MS in Biology, Biotechnology, or Biochemistry and 0-3 years relevant experience. Experience performing diagnostic and serological reagents/tests, including monoclonal antibodies, is necessary, as is proficiency in sterile technique, cell culture, and assay development. Ad Code: 9904541SCI

We encourage all candidates to apply online through our web site at **www.pfizer.com**. If necessary, you may also mail your resume, indicating the appropriate Ad Code, to: Pfizer Inc, Central Research, c/o Aon Consulting, PO Box 25, Findlay, OH 45839. Pfizer is an equal opportunity employer.

RESEARCH INSTITUTE

The Research Institute at the Hospital for Sick Children is world renowned for the achievement of significant scientific advancements across a broad spectrum of research from the molecular and cellular level to clinical studies of individual human subjects and populations. Our Cancer and Blood Research Program is comprised of an exceptional group of researchers who are internationally recognized for their studies that extend from basic cellular, genetic and molecular levels to clinical trials and epidemiological analysis.

PROGRAM HEAD, CANCER AND BLOOD RESEARCH

The Hospital for Sick Children
Room 5270
555 University Avenue
Toronto, Ontario
M5G 1X8
Canada

Facsimile
(416) 813-5085
Email
buchwald@sickkids.on.ca

www.sickkids.on.ca

The Program requires an outstanding scientist and leader knowledgeable in the broad area of research in the field of Cancer and Blood research. Your sterling record of scientific accomplishment will be complemented by strong interpersonal, leadership, organizational and communication skills. In addition to your own active research, you will foster the research careers of the faculty within the Program and facilitate interactions between experimental and clinical research. As well, you will act as an advocate for the Program in all of your communications with internal and external contacts. You will guide resource allocation within the Program while participating in the ongoing development of our Research Institute by sitting on the steering committee of the Research Institute. The successful applicant will be cross-appointed to the University of Toronto.

You will be supported in the achievement of scientific advancements through our integrated organizational matrix structure, excellent technical/administrative resources and collaborations with others in an exciting research community which encompasses the University of Toronto and its affiliated hospital research institutes.

Applicants are invited to forward a curriculum vitae, reprints of three to five recent publications and names, addresses and contact numbers of three referees to: Dr. Manuel Buchwald, Chief of Research and Director of the Research Institute.

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

A health care, teaching, and research
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affiliated with the University of Toronto.



THE HOSPITAL
FOR SICK CHILDREN



University of Toronto

SCHOOL OF SCIENCES Lynchburg College in Virginia

The School of Sciences at Lynchburg College invites applications to faculty positions beginning academic year 2000. Please visit www.lyncburg.edu/sciencepositions for more detailed information. Send letter of application, curriculum vita, teaching philosophy and experience, research plans and a list of three references along with their e-mail and mailing addresses to **James E. Carico, Dean, School of Sciences, 1501 Lakeside Drive, Lynchburg, Virginia, 24501 USA**. Review of applications will begin January 17, 2000 and continue until each position is filled.

ENVIRONMENTAL SCIENTIST. Ph.D., Assistant/Associate Professor, tenure-track. Teaching involves a wide variety of courses including a freshman-level environmental science course, and advanced courses such as freshwater ecology, environmental law and policy, and environmental geology. Ability to conduct field and lab activities with individual students in problem-solving skills and a willingness to expand the College's collaboration with the local environmental community are expected.

PLANT ECOLOGIST/BOTANIST. Ph.D., Assistant/Associate Professor, three-year renewable, possible conversion to tenure-track. Teaching primarily includes plant biology, ecology, and freshman biology. Teaching experience preferred. Good knowledge of eastern USA flora is expected and training in plant molecular/cellular processes is desirable.

PHYSICIST. Ph.D., Assistant/Associate Professor, one year appointment, renewable. The candidate must be an effective teacher at all levels of undergraduate physics and involve students in undergraduate research. The successful candidate must be eager to teach non-majors as well as majors.

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MAYO CLINIC GMP VECTOR PRODUCTION FACILITY

Production Manager and Production/Quality Control Staff are sought to operate a new GMP Vector Production Facility established to support preclinical and phase I clinical gene therapy studies at Mayo Clinic, Rochester, Minnesota. A range of different viral and nonviral vectors will be produced in the facility. Experience in molecular biology, cell culture and/or laboratory management is required. Previous relevant experience is essential. Competitive salary and benefit package available.

Applications along with curriculum vitae and bibliography should be sent to:

Stephen J. Russell, MD, PhD
c/o Ms. Maureen Craft
Mayo Clinic
Guggenheim 18th Floor
200 First Street Southwest
Rochester, MN 55905

Informal inquiries should be directed to Dr. Stephen J. Russell by e-mail at: sjr@mayo.edu. The deadline for applications is December 31, 1999.

For more information about the Mayo Clinic Molecular Medicine Program you can visit our website at: <http://www.mayo.edu/research/mmp/>. For more information about Rochester, Minnesota and Mayo Foundation, you can visit the websites at: <http://www.rochester.mn.com/> and: <http://www.mayo.edu/>.

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Merck Research Laboratories (MRL), a world leader in creative and innovative Biological and Pharmaceutical Research to produce novel medicines, is recruiting a limited number of excellent scientists with significant leadership potential for our laboratories in **North America (Rahway, New Jersey; West Point, Pennsylvania; San Diego, California; Montreal, Quebec, Canada)**. We are seeking scientists representing all major disciplines and are particularly interested in candidates with an outstanding background in animal physiology and pharmacology.

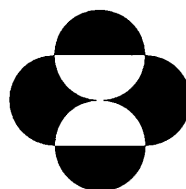
RESEARCH SCIENTISTS

Within MRL, scientists from all biological disciplines work together with one of the world's strongest Medicinal Chemistry programs in a full range of therapeutic areas. These include disorders of the Central Nervous System (such as schizophrenia and depression), Alzheimer's disease, stroke, and pain. Endocrine disorders such as diabetes, atherosclerosis and obesity, and osteoporosis are major areas of Merck expertise. Cardiovascular disease in all its forms and inflammatory diseases such as osteoarthritis, rheumatoid arthritis, asthma and allergies, and allograft rejection are also fully represented, as are cancer biology, all forms of infectious disease, and vaccine research.

Drug discovery programs at Merck employ the full spectrum of techniques used in the biological sciences, including molecular genetics, electrophysiology, cell biology and biochemistry, allied with animal pharmacology. The record of drug discovery achievements and scientific publications produced by Merck Research Laboratories amply demonstrates the breadth and quality of our research endeavors. A listing of scientific publications for 1998 can be found at our Web site at www.merck.com/scipubs or write to the address below.

Successful applicants may be drawn from any discipline, but must have a minimum of two years of postdoctoral experience, a superlative record of accomplishment in research demonstrated by a strong publication record, and excellent communication skills. We are looking for candidates who share our core research values in the development of innovative medicines for the treatment of disease.

Our salaries, benefits, and growth potential are excellent. Applicants interested in working at any of our sites should send their CV (including names and addresses of three potential references), c/o **Mary Ann O'Halloran, Merck & Co., Inc., P.O. Box 2000, RY80M-190, Rahway, New Jersey 07065**. Or e-mail: mary_ann_ohalloran@merck.com. If applying by e-mail, please attach your resume, preferably as an MS Word document. Merck Research Laboratories is an equal opportunity employer.



MERCK

Research Laboratories



HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States. HHMI regularly has positions open for research and administrative personnel.

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Institute employees enjoy competitive salaries and an excellent benefits package. HHMI is an equal opportunity employer.

Please visit our website at

www.hhmi.org/jobs for a listing of available positions.

COURSES & TRAINING

MARINE BIOLOGICAL LABORATORY MICROBIOLOGY COURSES

MICROBIAL DIVERSITY

JUNE 11 – JULY 27, 2000

An intensive six-and-a-half-week course for graduate or postdoctoral students, as well as established investigators, who want to become competent in microbiological techniques for working with a broad range of microbes, and in approaches for recognizing both possible affinities of as yet uncultivated bacteria, and for understanding putative phylogenetic relationships. Limited to 20 students.

Directors: Caroline Harwood, University of Iowa; and Alfred Spormann, Stanford University.

Application Deadline: March 1, 2000 *Tuition:* \$3,900

MOLECULAR MYCOLOGY

CURRENT APPROACHES TO FUNGAL PATHOGENESIS

AUGUST 7 – 25, 2000

This course provides state-of-the-art training in molecular methods for fungal pathogens important in human disease. The course is designed for advanced graduate students, postdocs, and independent investigators. Limited to 16 students.

Directors: J.E. Edwards, Harbor/UCLA Medical Center; P.T. Magee, University of Minnesota; and Aaron P. Mitchell, Columbia University.

Application Deadline: April 11, 2000 *Tuition:* \$2,100

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CONTACT INFORMATION

Carol Hamel, Admissions Coordinator
Marine Biological Laboratory
7 MBL Street / Woods Hole, MA 02543
508-289-7401 / admissions@mbi.edu



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Shaping the Future

The Bristol-Myers Squibb Technical Operations, Fermentation and Biocatalysis Development Department in Syracuse, New York has two newly established positions for a Plant Cell Biologist and a Plant Biochemist.

PLANT BIOCHEMIST

The selected individual will be responsible for studying the biosynthetic pathway of a secondary metabolite in plant cell suspension culture, identifying and purifying the biosynthetic enzymes for this secondary metabolite, and elucidating the regulatory mechanisms for the gene expression and production of this metabolite. Individual should have a B.S./M.S./Ph.D. in biochemistry or molecular biology with 3-6 years experience. Experience in plant cell culture, plant biochemistry, or enzyme purification from plant cells is desirable.

Job #99-0005777

PLANT CELL BIOLOGIST

The selected individual's responsibilities include optimization of growth plant cell suspension culture in shake flasks and fermentors, optimization of medium components as well as methods for cell cryo-preservation and cell transfer, development of new techniques for plant cell culture and increase of the productivity of a secondary metabolite. Individual should have a B.S./M.S. in plant cell biology or related fields with 2-4 years experience. Experience in plant cell culture, preferably woody plant cell systems, is required.

Job #99-0005776

Bristol-Myers Squibb offers competitive salaries, excellent benefits, and career growth opportunities. Please forward resume with Job # to: **Bristol-Myers Squibb, Human Resources Manager, P.O. Box 4755, Syracuse, NY 13221-4755.** Equal Opportunity Employer, M/F/D/V.

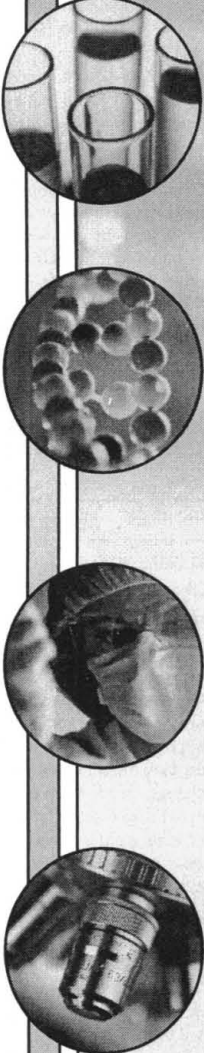


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BIOPROCESSING POSITIONS AVAILABLE FOR 2000 IN THE FOLLOWING AREAS:

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- **PROCESS DEVELOPMENT ENGINEER** - #99-0369
- **STAFF SCIENTIST** - #99-0368

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- **BIOPROCESSING ASSISTANTS** - #99-0391/92
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- **STAFF SCIENTISTS** - #99-0395/96

Analytical Chemistry & Formulation

- **RESEARCH ASSISTANTS/ASSOCIATES** - # 99-0397/98

In addition to the tremendously rewarding environment, you will enjoy an exceptional compensation and benefits package. Please submit resumes (Immunex utilizes scanning technology) specifying Job Number to: Immunex Corporation, 51 University Street, Seattle, WA 98101.

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MIT

ASSISTANT PROFESSOR

The Department of Brain and Cognitive Sciences anticipates making a new tenure-track appointment in theoretical/experimental neuroscience at the Assistant Professor level. Candidates should combine a strong mathematical background and an active research interest in the modeling of specific cellular or systems-level phenomena with appropriate experiments. Individuals whose research focuses on learning and memory or sensory-motor integration at the level of neurons and networks of neurons are especially encouraged to apply. We are also interested in individuals working on bioinformatics in neuroscience. Responsibilities include graduate and undergraduate teaching and research supervision.

Applications should include a brief cover letter stating the candidate's research and teaching interests, a vita, three letters of recommendation, and representative reprints, and should be sent to: **Theoretical/Experimental Neuroscience Search Committee, Dept. of Brain and Cognitive Sciences, E25-406, MIT, Cambridge, MA 02139.** Review of applications starts January 15, 2000. Qualified women and minority candidates are especially encouraged to apply.



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US Environmental Protection Agency Office of Research and Development

EPA is seeking a highly qualified scientific leader for the position of Deputy Assistant Administrator for Science, Office of Research and Development, Washington, D.C. The successful candidate for this position will coordinate and provide oversight to a broad spectrum of environmental science issues involving human health and ecology. The candidate will also lead efforts on both long-term and annual research planning to meet the needs of the EPA Program and Regional offices, Congress, and the public.

The Office of Research and Development conducts an Agency-wide integrated program of research and development relevant to pollution sources, pollution prevention and control approaches, transport and fate processes, health and ecological effects, measurement and monitoring, and risk assessment. The Office rigorously disseminates its scientific and technical knowledge and, upon request, provides technical reviews, expert consultations, technical assistance, and advice to environmental decision makers in federal, state, local, and international governments.

ORD implements its activities through its offices in EPA Headquarters, Washington, D.C., and its national centers and laboratories.

To meet the requirements of this position, applicants must have a bachelor's degree (or equivalent) in one of the following: General Biological Sciences or General Physical Sciences. Preferred candidates would possess recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels. Candidates must also have competence and substantive specialized (scientific, policy, administrative or managerial) experience in a type of work or a combination of functions directly related to the position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement for this position. Call or write to: **USEPA OARM/OHROS/SES Human Resources Staff (3650), 401 M Street, S.W., Washington, D.C. 20460.** The telephone number is (202) 260-6374. Request announcement number EPA-00-SES-ORD-6167. You may download a full text announcement via Internet at www.usajobs.opm.gov "OPM control number IH3466".

U.S. Citizenship Required

Applications must be postmarked by the closing date February 4, 2000

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FACULTY POSITIONS X-RAY CRYSTALLOGRAPHY

The University of Cincinnati College of Medicine invites applications or nominations for tenured or tenure track faculty appointments in the broad area of crystallography of biological macromolecules. We expect to make two appointments at the level of Assistant Professor or higher, and encourage applications from senior as well as junior investigators. Appointments would be in the Department of Pharmacology and Cell Biophysics and/or the Department of Molecular Genetics, Biochemistry and Microbiology. With about 50 full-time faculty and more than 50 graduate students, the two departments maintain active research programs in many areas. For more information: <http://www.med.uc.edu/pharmacology/> and <http://ucmg65.med.uc.edu>.

Successful candidates will bring this discipline to and join our structural biology program, and are expected to bring or establish strong independent research programs and contribute to medical and graduate education. Generous start-up resources are available.

Structural biology is a priority of the College of Medicine, and an outstanding NMR facility (5 instruments including 800 MHz) has already been established. Other core facilities include transgenic and knockout mice, DNA synthesis and sequencing, genomics, proteomics, bioinformatics, and mouse physiology/pharmacology. For details: <http://www.med.research.uc.edu/toc.cfm>. Departments at the College, along with the Barrett Cancer Center and the Cardiovascular Center, provide a broad range of research opportunities.

Applicants should submit curriculum vitae, a brief description of their research program, and the names of at least three qualified references to: Crystallography Search Committee, Department of Pharmacology and Cell Biophysics, University of Cincinnati College of Medicine, P.O. Box 670575, Cincinnati, OH 45267-0575 USA. Review of applications will begin upon receipt and continue until the positions are filled.

The University of Cincinnati is an Equal Opportunity Employer.

Department of Neuroscience University of Minnesota Tenure-Track Assistant Professor Positions

The newly formed Department of Neuroscience at the University of Minnesota-Twin Cities is seeking faculty to strengthen its existing programs in cellular and molecular neuroscience. The department proposes to hire 1-2 assistant professors working on various aspects of the regulation of gene expression in the nervous system including signal transduction, control of transcription, protein targeting, and cell-cell communication. The research areas of interest span the cellular and molecular processes leading from the signals that initiate changes in gene expression and the factors that control transcription in a neuron to the packaging and distributing of the protein products that modify the neuron. Ideal candidates will complement existing departmental strengths in systems neuroscience. Starting date is Fall, 2000. For more information see <http://www.neurosci.umn.edu>.

Candidates must have a Ph.D. and/or M.D. degree. Desired experience includes at least two years of postdoctoral or equivalent experience, and a strong publication record. Successful candidates must be able to secure permanent resident status or be U.S. citizens. Candidates will be expected to develop a vigorous, independent research program that will lead to external funding. The ability to interact collaboratively among a variety of disciplines will be strongly encouraged, and teaching of undergraduate, graduate, and/or professional students will be expected. Please send a curriculum vitae, a statement of research interests, and three letters of recommendation that consider both research and teaching potential to:

Search Committee
c/o Ms. Barbara Swanson
University of Minnesota
Department of Neuroscience
Jackson Hall Room 6-145
321 Church St., S.E.
Minneapolis, MN 55455 USA
or werrb001@tc.umn.edu

Electronic versions of the required information may be e-mailed but must be followed with a hard-copy for the official search files. Applications received by February 1, 2000 will be reviewed in this round.

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Neuromyx RECOGNIZE YOUR FUTURE

Neuromyx is a young biotechnology company concentrating on utilizing stem cell technologies to treat various neurological diseases. We are looking for energetic, innovative scientists and research associates to join our expanding teams.

SCIENTISTS

Opportunities are available for innovative scientists who are experienced in the field of gene therapy, neurologic animal models such as Parkinson disease, spinal cord trauma, Huntington disease, stroke, Alzheimer and ALS. Available positions include: Gene transfer technology for stable expression of exogenous genes of interest in stem cells; study of stem cell isolations, development and differentiation. Novel gene identification using gene chip technology; development and evaluation of stem cell transplantation techniques; evaluation and development of neurologic models including Parkinson's, stroke, Multiple sclerosis, ALS, brain tumor and spinal cord trauma. To qualify, candidates are required to have a Doctorate degree in related fields. 2-3 years experience in academic or biotechnology industries is highly desirable. Good presentation skills and the ability to work closely with collaborators are a must.

CHEMISTS

Opportunities are available for innovative chemist who are experienced in small molecule synthesis, screening and/or sugar/ganglioside synthesis and biochemistry. To qualify, candidate will have a Doctorate degree in related fields. 2-3 years experience in academic or biotechnology industries is highly desirable. Good presentation skills and ability to work closely with collaborators are a must.

RESEARCH ASSOCIATES

We are looking for self-motivated, team players to work with a team of scientists in the following fields: cell cultures, molecular biology/gene therapy, neurologic animal models. Requirements include a B.S. in cell biology, neuroscience, molecular biology, developmental biology or similar applicable field and 3 years of experience working with various types of cell cultures, immunohistochemistry, confocal microscopy, animal model testings and molecular biology.

Neuromyx offers its employees an outstanding compensation package which includes a comprehensive benefits package, stock options, 401(k), and much more. Candidates are asked to submit resume to: Neuromyx, 200 Great Valley Parkway, Malvern, PA 19355. Fax: 610-451-6895. Email: jobs@neuromyx.com. Equal Opportunity Employer.



FACULTY POSITIONS BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

The Center for Bioinformatics seeks outstanding candidates at all levels for tenure-track faculty positions in bioinformatics and computational biology. Applicants with a research record in computational genomics are particularly encouraged to apply. Other areas of bioinformatics and computational biology will also be considered. Applicants should have a commitment to working in a strongly interdisciplinary environment involving biologists, computer scientists, mathematicians and statisticians. The successful applicant will participate in an ongoing, dynamic training program in computational biology bioinformatics at the graduate and post-graduate, masters, and undergraduate levels. Primary appointments will be within a School of Medicine department with secondary appointments in other departments (e.g., Computer and Information Science) as appropriate.

Review of applications will continue until all positions are filled. Letters of interest, CV, and names of references should be sent to:

Angel Pizarro, Secretary;
Bioinformatics Faculty Search Committee
Center for Bioinformatics
University of Pennsylvania
1312 Blockley Hall, 418 Guardian Drive
Philadelphia, PA 19104-6021

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Novartis Pharmaceuticals Corporation researches, develops, manufactures and markets leading innovative prescription drugs used to treat a number of diseases and conditions, including central nervous system disorders, organ transplantation, cardiovascular diseases, dermatological and infectious diseases, cancer and arthritis. We seek to improve people's lives by pioneering novel healthcare solutions. Help us to achieve that vision as a member of our team at our Summit, NJ location.

Lab Head – Arthritis Gene Therapy Requisition #HB-6645

As a member of our arthritis gene therapy program team, you will become a key contributor to the discovery of innovative therapies for the arthritis indications. Your responsibilities include construction of retroviral and/or adenoviral vectors, expression analysis at the gene and protein levels, and characterization of novel anti-arthritis genes. This position also promises a high degree of exciting interaction as you actively participate in multidisciplinary teams and publish findings in peer reviewed journals.

The position requires a Ph.D in cellular or molecular sciences, 1-3 years of postdoctoral experience, and a proven track record in viral-based gene delivery technology. Experience with small animal models or immunohistochemical techniques would be beneficial.

Research Scientist – Functional Genomics Requisition #HB-5875

Become an integral part of our operation carrying out molecular biology experiments to identify genes expressed in specific target tissues or during specific disease processes in animals or humans. In the day-to-day completion of your duties, you will be involved in generating cDNA libraries, taking them into large scale genetic screens using retroviral-based expression systems.

To excel in this position, you will need a BS or an MS and at least 2 years' experience in molecular biology research in industry or academics. Extensive experience with mammalian tissue culture and retroviral gene delivery, in addition to familiarity constructing cDNA libraries and hands-on experience with FACS (fluorescent activated cell sorting) is essential. Experience in setting up cellular-based assays is an advantage.

Lab Head – Bio-informatics/Infectious Diseases Requisition #HB-6742

Play a key role in the identification and characterization of novel bacterial targets for the discovery of new anti-infective therapies, by exploiting the extensive genomics information available in public and proprietary microbial databases. This exciting and challenging opportunity is available within a world-class bio-informatics environment and gives you the opportunity to work closely with scientists of various other disciplines, including bio-informatics and external collaboration.

The talented candidate we seek must possess an educational background that includes a Ph.D. in Biology with emphasis in bio-informatics, molecular evolution or molecular systematics. You will also have a substantial track record in bio-informatics and will be experienced in the discovery, classification and characterization of genes from sequence databases by computational means using a typical industry-grade bio-informatics hardware and software environment. Excellent interpersonal and communication skills are required, previous experience in microbiology is a plus.

We offer a highly competitive salary and compensation package. For consideration please forward your resume/curriculum vitae and letter of interest, indicating requisition # on all correspondence, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Ave., Bldg. 133, Room 1029, Summit, NJ 07901; e-mail: hrstaffrd.phuseh@pharma.novartis.com. We are an equal opportunity employer. Unfortunately, we will only be able to respond to those candidates who meet our qualifications. Please visit our website at www.pharma.us.novartis.com



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Pursue your future with Promega, a biotechnology leader, and experience every career advantage including diversity, growth opportunities, exceptional benefits, on-site fitness center and the appeal of one of America's most livable cities, Madison, WI. Currently, we are seeking these professionals to join us:

CELL REGULATION/ SIGNAL TRANSDUCTION

The selected individual must possess a BS/BA degree in Cell Biology (or equivalent), 2-4 years' laboratory experience after graduation as well as exceptional laboratory skills in the areas of cell culture, cell-based assays, immunostaining and quantitative analysis. A strong experimental design background is also a must. Preference will be given to candidates with an understanding of enzymology and enzyme purification and experience in pharmacologic assays.

We are significantly expanding our successful efforts in research and product development in our Bioluminescence technology platform. We have new Scientist positions available, and this is an outstanding opportunity to advance new technologies by working on the forefront of Bioluminescence technology.

POSTDOCTORAL- DIRECTED EVOLUTION

Participate in groundbreaking research of enzyme activity in non-native chemical environments involving methodologies for creating molecular diversity, library screening, robotics for high-throughput analysis and molecular modeling for structural analysis. A Ph.D. in Biochemistry or a related field; experience in molecular biology and modeling; and enzymology lab techniques are essential.

SENIOR SCIENTIST/LEADER -

Lead a variety of projects and be part of a diverse R&D team. A Ph.D. with a minimum of 5 years' experience in research and/or product development in the areas of cell biology, molecular biology or biochemistry (Post-doc may serve as experience) is required. In addition, 2+ years' experience working in a supervisory/management role; proficiency in molecular biology techniques (gene cloning, mutagenesis, PCR, hybridization probing, etc.); and a strong background in mammalian cell culture techniques and the creation of stable transgenic cell lines are also required. Preference will be given to candidates with proficiency in assay design and validation; working knowledge of intracellular signal transduction; experience with reporter gene analysis, industrial/commercial environment, and drug discovery research.

SENIOR SCIENTIST -

Develop new technologies and products related to reporter molecules. A BS/MS degree in a scientific discipline (or equivalent) with demonstrated working knowledge of scientific principles; a BS with a minimum of 8+ years' experience, or an MS with 5-8 years' experience post degree required. Demonstrated technical expertise in molecular biology (cloning, PCR, mutagenesis, etc.), experimental design and quantitative analysis is a must. Preference will be given to candidates with an understanding of the principles of protein structure and enzymological analysis, experience in mammalian cell culture and eucaryotic molecular genetics as well as in intracellular signal transduction.

Promega offers the challenge of working in a non-traditional environment, a competitive salary and benefits package, onsite fitness and childcare facilities as well as career advancement opportunity. For confidential consideration, please mail, e-mail or fax your resume, indicating the position of interest, to: **Promega Corporation, Human Resources, 2800 Woods Hollow Rd., Madison, WI 53711. Fax: 608-277-2601. E-mail: hr@promega.com. Equal Opportunity Employer**



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Post-Doctoral Fellow

Applications are invited for a joint post-doctoral research position in the laboratories of Dr. Alan Jones (UNC) and the Plant Research Department of Paradigm Genetics, Inc., headed by Dr. Jörn Gorlach. Research projects involve a functional genomic approach to examine the role of several genes controlling plant growth and development. Qualified applicants will possess a firm grounding in recombinant DNA technology, plant transformation, and plant growth analyses. Excellent written and verbal communication skills combined with the energy it will take to join a hardworking competitive team are also necessary to fill this position. Applicants should send a complete curriculum vita and three letters of reference to: **Dr. Alan Jones, Department of Biology, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3280. Direct inquires to: alan_jones@unc.edu**

COLUMBIA UNIVERSITY

COLLEGE OF PHYSICIANS & SURGEONS

Chairperson for the Department of Microbiology

Columbia University seeks to hire a chairperson for the Department of Microbiology. The department currently consists of 13 full-time faculty members whose primary research represents investigations into various aspects of the molecular biology and genetics of viruses, bacteria, and yeast, as well as the molecular biology of immune responses, including transcriptional regulation and signal transduction. The department maintains interactive and collaborative research programs among its members and with numerous investigators in other departments in the basic biomedical and clinical sciences at P&S.

The department is responsible for teaching courses in the graduate program and for teaching microbiology of infectious disease and immunology in the medical curriculum. All members of the department maintain independently funded research programs.

The department is seeking a new chairperson to lead its growth and direct its evolution in the coming years. It is anticipated that the new chairperson will have demonstrated a commitment to creative research, have made scholarly contributions in a field of microbiology, and have an interest in leading a group of highly accomplished investigators. New areas of scientific investigation will certainly be entertained, as will innovative pedagogical approaches.

Interested persons should send a CV and statement of interest to Dr. David Hirsh, Head, Microbiology Search Committee, Box 36, 630 West 168th Street, New York, NY 10032.

Columbia University takes affirmative action toward equal employment opportunity.



It's

the people, the complex challenges,
the stimulating environment. The opportunity to work
independently while contributing to a team.
The opportunity to make a difference - to leave your mark.

SEARLE

Monsanto/Searle is committed to the discovery of mechanism-based drugs that target oncology, arthritis, inflammation and cardiovascular diseases. Our Medicinal Chemistry Division is announcing the opening of several new positions in Computational Chemistry and Protein Crystallography. In these positions, you will join a group of crystallographers, NMR spectroscopists and computational chemists who work on drug-discovery projects by interacting with medicinal chemists, pharmacologists, protein biochemists, molecular biologists and other researchers in a project team-based environment. Monsanto is a member of the Industrial Macromolecular Crystallography Association (IMCA) and through this membership, we have regular access to synchrotron beam time at the Advanced Photon Source.

Structure-Based Drug Design Computational Chemists

Two positions are available. For the first position, your skills should include major strengths in two areas: (1) lead optimization especially through structure-based drug design and (2) design of focused combinatorial chemistry libraries. For the second position, skills in library design are also desirable, but strength in lead optimization through structure-based drug design will be a major focus of the search. For both positions, a graduate degree (or equivalent experience) in computational chemistry or a related discipline is required. Experience working with medicinal chemists in a team-based, pharmaceutical environment is highly desirable. Experience with QSAR and pharmacophore mapping techniques, as well as familiarity with organic chemistry and the interpretation of biochemical and ADME data would be an asset, as would computer programming experience.

Ad Code: 99-2977

Protein Crystallographer

Skills in all aspects of macromolecular crystallography including protein expression and purification, crystallization, data collection, phasing by molecular replacement, MAD and MIR techniques, map interpretation, model building and refinement are required. Structure-based drug design and lead optimization will be the major focus of your effort. Experience working with medicinal chemists in a team-based, pharmaceutical environment is highly desirable. Familiarity with organic chemistry and the interpretation of biochemical and ADME data is an asset. A graduate degree, or equivalent experience, with specialization in protein crystallography is required. **Ad Code: 99-2979**

Cheminformaticist

In this position you will be expected to invent, develop, and/or implement algorithms in one or more of the following areas: large dataset QSAR, pharmacophore perception, pharmacokinetic property prediction, and data-mining. One important application of these technologies would be in combinatorial library design. A graduate degree (or equivalent experience) in computational chemistry or a related discipline is required. Experience working with medicinal chemists and with biologists in a team-based, pharmaceutical environment is highly desirable. Competence in one or more of the following programming languages required: perl, C, C++, Java, VB. **Ad Code: 99-2980**

Searle, the pharmaceutical sector of the Monsanto Company is located in St. Louis, MO. We offer a competitive salary and benefits package including tuition reimbursement and 401(k). For fastest consideration, please submit your resume to: Monsanto-Ad Code (select from above), 700 Chesterfield Parkway, Mail Zone BB5B, Chesterfield, MO 63198 or fax to: 314/737-6419. EEO/AA Employer M/F/D/V. Please visit our website at www.searle-ican.com

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Inhale Therapeutic Systems is developing non-invasive systems that enable deep lung delivery of large molecule drugs as an alternative to injection. While our biotechnology and pharmaceutical partners make breakthroughs in new drug development, Inhale is developing technologies to deliver those therapies more efficiently to the people who need them.

Our partnership with Pfizer addresses pulmonary delivery of insulin. With Biogen, we are working on a non-invasive formulation of its leading multiple sclerosis drug, AVONEX. Inhale's novel system integrates customized formulation and proprietary fine-powder processing, packaging and inhalation device technologies. Now, with our valuable corporate alliances and our broad product portfolio in various stages of development and commercialization, this is an exciting time to join the Inhale team.

QUALITY

QC Research Associates

You will perform general quality control validations, including equipment and analytical method validation. You will support QC release and stability studies, and write validation protocols, SOPs, and final reports. Requires a BS/MS in Chemistry or related field and a minimum 2 years industry experience. Knowledge of GMPs and practical experience in chromatography and spectroscopy are essential. Job #530SCI

QC Scientist/Associate Scientist

You will develop and validate analytical methods for various molecules in aerosol powder formulations. You will also support project teams for method fine-tuning, method validation and clinical lot release. Requires a degree in Chemistry or related field and 5+ years experience in the biotech/pharmaceutical industry with an emphasis on analytical methods development and protein validation. Job #486SCI

DRUG DEVELOPMENT AND RESEARCH GROUPS

Scientist/Sr. Scientist

You will develop analytical methods, and characterize peptide and protein structures in the solid state and in solution. You will participate with project teams in the generation of reports and presentations. A PhD in Chemistry or Biochemistry and up to 5 years industrial experience are required. A minimum 2 years methods development experience for protein and peptide analysis is needed. Job #458SCI

Research Associate/Sr. Research Associate

In this role, you will develop analytical methods for protein and peptide powder formulations, with an emphasis on the solid state and on solutions formulation into fine particulate powders for aerosol delivery via inhalation. Requires a BS or MS in Chemistry, Biology, Chemical Engineering or related discipline and a minimum 2 years industrial experience. Familiarity with HPLC analysis, vibrational spectroscopy, and thermal analysis is also required. Job #454SCI

Scientists

You will lead and coordinate Inhale's research efforts to understand the factors which determine the bioavailability of inhaled peptides and proteins in the lungs. You should have a pharmacology background and experience working with the absorption, distribution, metabolism, and excretion (ADME) of protein and peptide pharmaceuticals. A PhD and 2+ years experience, or a BS/MS and 7+ years experience are required. Job #492SCI

Scientist

You will carry out formulation research projects to advance technology in the area of solid state stability of dry powder inhalation aerosols containing protein and peptide drugs. A PhD in Physical Chemistry or Physics and at least 1 year experience in applied research are required, along with a strong theoretical understanding of material science and physical chemistry. Job #450SCI

Inhale offers excellent benefits and an informal, friendly work environment. Salary commensurate with experience. Please reference job number in all correspondence. Please send resume and cover letter to: Inhale Therapeutic Systems, Attn: Human Resources, 150 Industrial Way, San Carlos, CA 94070; email: jobs@inhale.com. EOE.

inhale

ASSISTANT PROFESSOR - MICROBIAL PHYSIOLOGY

The Department of Microbiology at the University of Guelph invites applications for a tenure-track position at the rank of Assistant Professor. We are seeking an individual with the ability to establish and sustain a vigorous and creative independent research program and a commitment to teaching at both the undergraduate and graduate levels. The successful candidate will have research interests in microbial physiology and enzymology. Preference will be given to applicants who could interact productively with plant and animal scientists within the recently established Food Systems Biotechnology Centre, an initiative jointly funded by the Province of Ontario, the University of Guelph, and its industrial partners. Applicants should hold a Ph.D. and have a minimum of one to two years of relevant postdoctoral experience, an excellent record of research, and evidence of strength in teaching.

Applicants should forward their curriculum vitae, the names and contact information for three individuals who could provide letters of recommendation, a one-page description of their proposed research program, and representative publications to **Dr. Chris Whitfield, Chair of Search Committee, Department of Microbiology, University of Guelph, Guelph, Ontario N1G 2W1**. Consideration of applications will begin February 13, 2000 and will continue until the position is filled. For more information on the Department of Microbiology and the Food Systems Biotechnology Centre, visit our Web sites at www.uoguelph.ca/mbnet and www.uoguelph.ca/~fsbc/, respectively.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. This appointment is subject to final budgetary approval.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore, particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women.

**UNIVERSITY
OF GUELPH**



Faculty Positions at Drexel University

Applications are invited for two positions in the School of Environmental Science, Engineering and Policy (SESEP) at Drexel University: ecological economist and ecologist.

Applicants for these positions should have an earned doctorate, and interests in developing a career encompassing graduate and undergraduate teaching, research, and service. We seek persons at the assistant professor level, although applicants for all ranks will be considered. The positions are available in September 2000.

The ecological economist should have a degree in ecological economics or related economics discipline with interests in ecological economics and its application to urban environmental issues and public policy. The ecologist should have a degree in ecology or related discipline with an interest in undergraduate education in ecology and environmental science. Preference will be given to candidates with teaching experience.

Preference also will be given to candidates whose interests link with those of existing faculty, yet extend beyond our current activities.

SESEP (<http://www.drexel.edu/sesep/>) has 13 full-time faculty, 100 undergraduate and 90 graduate students. The successful applicant will work primarily in the environmental policy program, which complements programs in environmental science and environmental engineering.

Send CV, statements of research and teaching interests, representative reprints, and the names and contact information (including email) for three references to the Ecology Search Committee at:

SESEP

**Drexel University
3141 Chestnut Street
Philadelphia, PA 19104**

e-mail: SESEP@drexel.edu Fax: 215-895-2267

Review of applications will begin January 3, 2000. Applications will be accepted until the position is filled. *Drexel University is an Equal Opportunity Employer.*

GORDON RESEARCH CONFERENCES

Conferences at the Frontiers of the Biological, Chemical and Physical Sciences

- The preliminary 2000 Summer GRC schedule will appear in the November 26, 1999 issue of **SCIENCE**.
- The full 2000 Summer and Fall GRC schedule will appear in the February 18, 2000 issue of **SCIENCE**.

visit the *frontiers of science* at:

WWW.GRC.URI.EDU

Our web site contains the complete schedule of current and upcoming Conferences.
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BIOTECHNOLOGY'S

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Lilly is a premier biotechnology company and a world leader in the pharmaceutical industry. Our position and resources allow us to offer remarkable opportunities for equally remarkable professionals who insist upon cutting-edge projects and excitement in their work. Eli Lilly and Company is currently seeking to fill an Associate Biochemist position.

Associate Biochemists

Lilly Research Labs in Indianapolis is seeking BS/MS biochemists in the Biochemical Technologies group. Qualified individuals will be responsible for purification and characterization of proteins and enzymes, and application of protein based technologies in studies of proteomics. The positions will also contribute to projects of identification and validation of novel therapeutic proteins and targets. Successful candidates must have extensive experience with protein purification and characterization and a strong background in general biochemistry. Skills required include HPLC, column chromatography, protein electrophoresis, enzyme assays, Western blotting and protein sequencing. Experience in mass spec of protein and peptides, 2D electrophoresis, Biacore and other areas of proteomics is highly desirable. Familiarity with computer programs used in laboratory instruments and experience in protein expression, ligand binding or crystallography a plus. Qualified candidates should have strong problem solving skills, be able to conduct independent research projects, be self-motivated and be able to communicate effectively with team members.

We offer excellent salary and comprehensive benefits. For immediate consideration, please send resume to: **Eli Lilly and Company, US Recruiting and Staffing, ADSCMBC12, Lilly Corporate Center, DC 1811, Indianapolis, IN 46285.**

We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace. For additional opportunities at Eli Lilly and Company, please access our Job Bank at: www.lilly.com

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Vanderbilt University Structural Biology Center

Vanderbilt University has launched a major trans-institutional initiative in Structural Biology to promote discovery and training using structural and computational tools and to foster training and communications among multiple disciplines in the College of Arts and Sciences and School of Medicine. Six new faculty will be hired, joining current faculty to form the core of the Program. The University has made a substantial commitment to ensure the success of the Structural Biology initiative, including major expansion of current capabilities in NMR, X-ray crystallography and computation, and dedication of an entire floor in a new 130,000 sq. ft. Biological Sciences Building. We are currently seeking new faculty at the **Associate or Full Professor** level in the areas of **Computational Biology and X-ray Crystallography**. Candidates should be interested in multi-disciplinary and collaborative Structural Biology approaches and will work closely with the Director on future development.

The core research programs will be complemented by a Structural Biology resource center designed to promote atomic level molecular approaches to biological, biomedical and medical research and to foster the pursuit of multi-disciplinary structural biology projects. The resource center will provide open access to expertise in the areas of molecular graphics, molecular computation, NMR spectroscopy, X-ray crystallography and the production of samples for experimental Structural Biology. We currently have openings for two staff positions: one to develop **Biomolecular NMR** projects and the other to assist with **Protein Production and Characterization**. These positions will involve working with the research groups of the Structural Biology faculty and providing expertise and guidance to non-Structural Biologists on various phases of project development. Appointments will be made at the level of Assistant Director of the Structural Biology Program. Candidates should have post-doctoral experience and considerable expertise in their respective areas.

Interested applicants should contact **Professor Walter J. Chazin, Director, Structural Biology Center, at 606 Light Hall, Vanderbilt University, Nashville, TN 37232-0146, or via e-mail: walter.chazin@vanderbilt.edu.**

Vanderbilt University complies with all Federal regulations and does not discriminate on the basis of race, sex, color, national or ethnic origin, age, disability, or military service in its administration of employment.

CONFERENCES

Announcement of International Conference The Biology of Thrombospondins and Other Modulatory Extracellular Matrix Proteins

June 4th-8th, 2000

University of Wisconsin-Madison, USA

Organisers: Deane Mosher, University of Wisconsin
Josephine Adams, University College London

Plenary Speaker: Judith Kimble

Session Topics and Principal Speakers:

Angiogenesis and Tumor Biology (Bouck, Lawler, Senger, Silverstein)

Connective Tissue, Cartilage and Bone (Bornstein, Bristow, Hecht, Mackie, Oldberg)

Matrix Biology (Chiquet-Ehrismann, Sage, Schwarzbauer, Tucker)

Receptors and Intracellular Networks (Adams, Asch, Chiquet, Feige, Frazier, Murphy-Ullrich, Rapraeger, Roberts, Strickland)

Structural Biology (Engel, Hofsteenge, Klar, Mosher)

Vascular Biology (Hillary, Iruela-Arispe, Kuno, Preissner)

The meeting will also include poster sessions and short talks selected from abstracts. Information and Registration from Jan. 3, 2000: www.wisc.edu/union/info/conf/tspomecm/tspomecm.html. Contacts: dfmosher@facstaff.wisc.edu (Fax 608-263-4969) dmcbjca@ucl.ac.uk (Fax +44-171-380-7805)

POSITIONS OPEN

ASSISTANT/ASSOCIATE/FULL PROFESSOR GEORGE MASON UNIVERSITY Informatics (CSI), Institute for Bioscience, Bioinformatics, Biotechnology (IB3)

CSI and IB3 together are seeking faculty members for tenure/tenure-track positions at the levels of Assistant/Associate/Full Professor. CSI offers an interdisciplinary doctorate in computational sciences and informatics with a concentration in bioinformatics. Excellent molecular biology, DNA sequencing, and computational facilities are available at IB3. The successful candidates should have a Ph.D. and a strong research interest in a field related to bioinformatics and/or computational biology. Senior-level applicants must have demonstrated the ability to obtain competitive research grants, to direct independent research projects, and should show evidence of excellent academic teaching ability. For more information about the position, contact: **M. Black** at 703-993-3616. Information is available at our websites: <http://www.cis.gmu.edu> or <http://www.ib3.gmu.edu>. Review of applications will begin January 15, 2000, and continue until the position is filled. Please send a curriculum vitae, a statement of research interests, and a list of three references in electronic form (preferred) to: **e-mail: avrama@gmu.edu** or hard copy to:

Harold Morowitz
Chair, Search Committee for
Bioinformatics Faculty
Institute for Computational Sciences
and Informatics
MS#5C3
George Mason University
Fairfax, VA 22030

Affirmative Action/Equal Employment Opportunity.

INTERNATIONAL SCIENCE POLICY ANALYST

Forest Service Research and Development seeks someone to provide national leadership in tracking and analyzing science policy issues with international implications for forestry and related natural resources and in providing coordination with international organizations active in same. Analyses take a strategic perspective in seeking ways to use recent research results to influence policy deliberations on issues and in identifying information/technology gaps where additional research and development activities are needed. Incumbent tracks and analyzes ongoing research by leading scientific organizations in other countries and their potential effect on current issues. Incumbent represents the agency and U.S. Department of Agriculture in international forums. Successful candidates will be experienced researchers, technology developers, or policy analysts with a career record of publications and accomplishments. Salary range: \$80,658 to \$104,851 (GS-15). Some experience in international research and/or policy communities is highly desirable. Further information is at website: www.usajobs.opm.gov, announcement WO-868-99, or call **Marty Longan**, Telephone: 202-205-1507. Application deadline: January 20, 2000.

Delaware Valley College invites applications for a **TENURE-TRACK FACULTY POSITION** in small-animal science to teach introductory courses covering the handling and restraint of small animals as well as upper-level courses. Ph.D. in animal science or biology and commitment to undergraduate teaching and mentoring required. Position is available September 2000. Closing date is January 31, 2000. Applications will be accepted until position is filled. Rank and salary commensurate with educational background and experience. Send curriculum vitae; statement of teaching philosophy; transcripts; and names, addresses, and telephone numbers of at least three professional references to: **Small-Animal Science Search, Human Resources Office, Delaware Valley College, 700 East Butler Avenue, Doylestown, PA 18901.** *Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING Massachusetts Institute of Technology

The Department of Civil and Environmental Engineering is looking for energetic, talented individuals whose research will complement the strengths of existing faculty of the Parsons Laboratory in one or more areas of environmental engineering and science. The ability to apply one's discipline to the interdisciplinary problems of complex environmental systems is essential. Areas of interest could include but are not limited to: physical and chemical interaction of fluids and particles in the context of sediment of contaminant transport, environmental remediation, or natural hazards; physical and chemical aspects of regional and tropospheric air quality; the application of information technology including data management, advanced computational techniques, remote sensing, and representation of information in areas of environmental science and engineering; terrestrial and marine ecosystems. Selected candidates will be expected to teach undergraduate and graduate subjects and establish an active, sponsored research program. MIT provides full academic-year salary, excellent benefits, and start-up help. Candidates should send a curriculum vitae and names of three references to:

Professor Rafael L. Bras
Head, Department of Civil and
Environmental Engineering
Room 1-290
Massachusetts Institute of Technology
Cambridge, MA 02139

Electronic applications may be sent to **e-mail: CEED@mit.edu**. Applications are due by January 31, 2000. *Women and minority applicants are particularly welcomed.*

ASSISTANT PROFESSOR, PHYSIOLOGY DEPARTMENT OF BIOLOGY The College of Notre Dame of Maryland

The Department of Biology, College of Notre Dame of Maryland, a liberal arts college for women, is seeking to fill a tenure-track position in physiology. The incumbent will teach physiology, neurobiology, and developmental biology and will be expected to foster undergraduate research. The College emphasizes teaching excellence in a liberal arts environment. In spring 2000, the department will occupy offices and laboratories in newly constructed science facilities. These facilities include dedicated research space and newly purchased equipment, including light and fluorescent microscopes and HPLC. Ph.D. required; appropriate teaching and postdoctoral research a plus. Send letter of application, curriculum vitae, statement of teaching and research interests, and contact information for three references to: **Kathleen O'Hanlon, Department of Biology, College of Notre Dame of Maryland, 4701 North Charles Street, Baltimore, MD 21210.**

TENURE-TRACK FACULTY POSITION INTEGRATIVE ZOOLOGIST

The Department of Biology of the University of Puerto Rico, Rio Piedras, seeks an integrative Animal Biologist with expertise in one or more of the following areas: physiology, endocrinology, genetics, or behavior. Responsibilities include the establishment of an active research laboratory that will attract extramural funding, supervising Master's and doctoral research, and teaching graduate and undergraduate courses. Candidate must hold a Ph.D. and have postdoctoral research experience. Interested candidates should send a curriculum vitae, a statement of research interests, representative publications, and three letters of reference before January 13, 2000, to: **Dr. Alberto M. Sabat, Acting Chair, Department of Biology, P.O. Box 23360, San Juan, PR 00931-3360.** E-mail: asabat@upr.edu. *University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION SCRIPPS INSTITUTION OF OCEANOGRAPHY/INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS in Geodesy or Geodynamics

The Scripps Institution of Oceanography and the Cecil H. and Ida M. Green Institute of Geophysics and Planetary Physics are seeking a candidate for a tenure-track or tenured appointment as **ASSISTANT or ASSOCIATE PROFESSOR** in geodesy/geodynamics. Research areas include observing and modeling solid and fluid Earth processes on time scales ranging from months to millions of years. Examples include but are not limited to active plate boundaries, the changing mass and volumes of the ice sheets, the dynamics of the core, and the circulation of the deep ocean. Applicants with interests in other terrestrial planets are also encouraged to apply. Areas of interest include: the Earth Science use of space geodetic techniques, such as interferometric synthetic aperture radar, gravity gradiometry, and laser altimetry; and modeling of geodynamical processes in the mantle and core.

The successful candidate will be expected to teach graduate-level courses in the Scripps Graduate Department and will be encouraged to participate in the undergraduate Earth Sciences degree program at University of California, San Diego. Rank and salary will be commensurate with experience and qualifications, based on the University of California pay scale. The position requires a Ph.D. degree and a competitive record of publications, as well as evidence of the ability to conduct and fund an active research program as appropriate for the level of the appointment.

Applications and inquiries should be made to: **Chair, Geophysics Search, Department of the Scripps Institution of Oceanography, UCSD, 9500 Gilman Drive, La Jolla, CA 92093-0208.** The closing date for applications is March 1, 2000, or until the position is filled. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

CENTRE FOR MARINE SCIENCES DISCOVERY BAY MARINE LABORATORY University of the West Indies (MONA)

The University of the West Indies is seeking a Lecturer (**ASSISTANT PROFESSOR**, tenure track) as Assistant Director of the Centre for Marine Sciences, to be based at (and live near) the Discovery Bay Marine Laboratory. She/he will take part in the Laboratory's research and teaching programme; interact with visiting scientists and classes; and participate, in a supervisory/advisory capacity, in the management of the Laboratory. Applicants should have a Ph.D. and preferably experience of research in coastal physical oceanography or in the geology, biology, or management of coral reefs or related systems. Further particulars of the post and the Centre are available at website: www.uwimona.edu.jm and details of the Laboratory at website: www.dbml.org. Prior to January 17, 2000, send detailed applications (two copies), giving full particulars of qualifications and experience; and the names, addresses, and FAX numbers of three references (who should be asked to send their references unsolicited) to: **Campus Registrar (Attention: Senior Assistant Registrar, Appointments), the University of the West Indies, MONA, Kingston 7 Jamaica, West Indies.**

Cell biology and microbiology. Wittenberg University, **ASSISTANT PROFESSOR**, tenure track. Applicants should have a Ph.D. (or A.B.D.) and interest in teaching in the undergraduate liberal arts and sciences context. Applicants should send curriculum vitae, statement of teaching philosophy, complete transcripts, and three letters of recommendation to: **Timothy L. Lewis, Chair, Department of Biology, Wittenberg University, P.O. Box 720, Springfield, OH 45501.** For further information, **e-mail: tlewis@wittenberg.edu**. Review of applications will begin 31 January 2000 and continue until the position is filled. *Wittenberg University is an Affirmative Action/Equal Opportunity Employer.*

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At PE Biosystems, we're making some of the biggest breakthroughs in science happen by creating products and instruments that change the way researchers identify and analyze the building blocks of life. In just the last year, genes for breast cancer, skin cancer, Alzheimer's disease and hypertension have been identified by dedicated professionals using PE Biosystems instrumentation, reagents and software. We currently have the following opportunities available at our facilities just south of San Francisco.

SCIENTIST I/II/SENIOR

Bioinformatics

As part of a Bioinformatics team supporting DNA polymorphism analysis, you will be responsible for managing and extending an ORACLE-based molecular polymorphism and assay database. Your work will include performing updates and resolving data conflicts, customizing Web access forms, migrating database releases, implementing database schema changes, maintaining and coding input and output parsers, and performing ORACLE backups and upgrades. We will rely on you to ensure database integrity and accuracy, and to provide biological insight for data interpretation. To qualify, you must have a BS/MS/PhD in Computer Science, Molecular Biology, Genetics or a related field and 1-3 years relevant experience, or an equivalent combination of education and experience. Comprehensive knowledge of genetics/molecular biology databases, demonstrated computer skills, including database technologies (e.g., ORACLE), scripting languages (e.g., Perl, Tcl/Tk, Python), and UNIX and Windows NT platforms are also needed. Experience with bioinformatics tools (e.g., GCG, OPM), SQL, UNIX shell scripts, and Web/CGI is a plus, as are other programming skills, such as Java, C++ and C. Job Code XHX10783

HIV R&D MANAGER

Molecular Diagnostics

Focusing on the clinical diagnostics market, you will work within Molecular Diagnostics Business Unit to develop and manage a HIV genotyping R&D program. The R&D program will include assay development, project management of internal and external programs and personnel management. You will develop and manage external collaborations with the scientific HIV genotyping community and oversee deliverables to Process Development, Marketing, Clinical and Regulatory Affairs. Requires a PhD with at least 7-10 years experience in infectious disease R&D, preferably in industry. You must have strong scientific leadership capabilities, specifically with HIV genotyping and virology. Excellent written and verbal communication skills are also needed. Job Code XHX10891

We offer a competitive salary and benefits package with advancement potential for your career. For consideration, please send your resume, indicating Job Code, to: PE Biosystems, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. You may also fax to 650/554-2894, or email us at pecorpad@resume.isearch.com. PE Biosystems is an equal opportunity employer.

www.bioview.com/pe

PE Biosystems

A DIVISION OF PE CORPORATION

A healthy vision.

SmithKline Beecham (SB) is at the forefront of anti-infectives research. Our Microbiology Research Department is pioneering innovative research into novel and unexploited antimicrobial targets, and their utility in the discovery of new antibiotics. Two Post-Doctoral positions exist within the Microbial Biochemistry Group at our state-of-the-art suburban Philadelphia, PA facility.

Tuberculosis Research

SB, in collaboration with Professor Brennan's group at Colorado State University, is participating in the NIH/NIAID/NCDDG-OI initiative to discover novel drugs which have utility in the treatment of Mycobacterium tuberculosis infections. SB's integrated expertise in bacterial genomics, bioinformatics, biochemistry and enzymology, molecular biology, and high throughput screening (HTS) will form the platform for this exciting project. We wish to recruit an individual to carry out fundamental research into novel mycobacterial targets, especially those involved in cell envelope biogenesis. Responsibilities will include the identification, cloning, purification and characterization of novel proteins, the investigation of their roles in mycobacterial physiology and pathogenesis, and the design of assays amenable to HTS. (Ad Code: 992028)

Bacterial Cell Wall Biosynthesis and Cell Division

We are currently evaluating a diverse array of pathways and essential proteins as potential antibacterial targets and wish to recruit an individual to carry out fundamental research in the area of bacterial cell wall biosynthesis and cell division. Responsibilities will include the cloning, purification and characterization of novel proteins involved in cell wall biogenesis and cell division, and the investigation of their roles and potential interaction partners. (Ad Code: 992001)

Applicants for both positions should possess experience in protein purification, protein biochemistry, basic enzymology, and molecular biology, in addition to excellent communication skills and a desire to play a pivotal role in a multi-disciplinary team. SmithKline Beecham offers a competitive benefits and compensation package, as well as a challenging work environment. To be considered for these Philadelphia, PA opportunities, please forward your scannable resume to: SmithKline Beecham, c/o National Resume Processing, (Ad Code), P.O. Box 1070, Burlington, MA 01803. Indicating Ad Code is essential. Principals only, no agencies, please. For a full listing of current opportunities, or to submit a resume online, visit our website at www.sb.com/careers

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POSITIONS OPEN

ASSISTANT PROFESSOR BACTERIAL PATHOGENESIS

The Department of Food Science and Human Nutrition (FSHN), in partnership with the National Food Safety and Toxicology Center (NFSTC) at Michigan State University, is seeking applicants to establish an internationally recognized research program on bacterial toxins or other virulence factors of interest in food safety. The research should emphasize modern molecular approaches to elucidate the mechanisms of bacterial foodborne disease. The successful candidate will participate in collaborative research programs in FSHN (academic appointment) and the NFSTC and participate in the teaching and mentoring of undergraduate and graduate students as well as Postdoctoral Fellows. FSHN and NFSTC are state-of-the-art buildings in close proximity which house faculty offices, well-equipped laboratories, and laboratory animal facilities. A stimulating research environment emphasizing the application of basic and applied research methodologies to food safety research is provided by an internationally recognized group of faculty. Active searches are also underway to hire additional faculty in the areas of food allergy, microbial pathogenesis, and microbial evolution. Complete information on faculty, facilities, and the position can be found at the FSHN website: <http://www.msu.edu/unit/fshn/> and NFSTC website: <http://foodsafety.msu.edu/home.html>. Qualifications include a doctoral degree in microbiology, food science, or related discipline. Postdoctoral experience is highly desirable. The application deadline is February 15, 2000, or until a suitable candidate is identified. A letter of application, brief research summary, a curriculum vitae, several representative reprints, and three letters of reference should be sent to: **Dr. John Linz, Chair, Search Committee, 234B GM Trout Food Science and Human Nutrition Building, Michigan State University, East Lansing, MI 48824.** Questions can be directed to **John Linz** via Telephone: 517-353-9624; FAX: 517-353-8963; or e-mail: jlinz@pilot.msu.edu. *Michigan State University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.*

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Saint Louis University School of Medicine

The Edward A. Doisy Department of Biochemistry and Molecular Biology is seeking applications for tenure-track positions involving research and teaching at the ASSISTANT PROFESSOR level, although outstanding candidates at a more senior level will be considered. We anticipate making up to four appointments over the next two years. We seek applicants who will complement ongoing research in the areas of regulation of gene expression, cell signaling, physical biochemistry, and functional genomics.

Individuals studying mechanisms of biological processes at the molecular level using a combination of biochemical and modern molecular biological strategies are especially encouraged to apply. The successful candidate is expected to establish a strong extramurally funded research program. A potential for or demonstrated evidence of competing successfully for external funding will be an important criterion for selection. Excellent start-up funds and salary are available. Curriculum vitae, description of research plans, and at least three letters of recommendation should be sent to:

Search Committee
c/o William S. Sly, M.D., Chairman
Edward A. Doisy Department of Biochemistry
and Molecular Biology
Saint Louis University School of Medicine
1402 South Grand Boulevard
St. Louis, MO 63104-1028

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and health care, is an Affirmative Action/Equal Opportunity Employer and encourages nominations of and applications from women and minorities.

POSITIONS OPEN

ENVIRONMENTAL BIOLOGY UNIVERSITY OF UTAH

The Department of Biology at the University of Utah seeks candidates for a tenure-track faculty position at the ASSISTANT or ASSOCIATE PROFESSOR rank. We are looking for a colleague with broad interests in biology who will establish a strong basic research program relevant to environmental issues. Areas of interest include but are not limited to conservation genetics, global change, invasive species ecology, and applications of evolutionary biology to medicine. Preference will be given to candidates likely to interact broadly in our department, which spans all of biology from ecology and evolution through physiology, genetics, cell biology, and biochemistry. Applicants should have a strong commitment to undergraduate teaching as well as to research and graduate education. The successful candidate will be expected to develop an advanced undergraduate course in environmental biology and to contribute to the core curriculum for undergraduate biology majors. Applicants should submit a curriculum vitae, statement of research interests, copies of up to four recent publications, and arrange to have three letters of recommendation sent to: **The Environmental Biology Search Committee, Department of Biology, 257 South 1400 East, University of Utah, Salt Lake City, UT 84112.** Applications received by January 24, 2000, will receive the fullest consideration. *The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.*

FACULTY POSITIONS PHYSIOLOGY AND PHARMACOLOGY

The Department of Physiology and Pharmacology in the College of Veterinary Medicine of the University of Georgia invites applications for two tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level beginning July 1, 2000, or thereafter. Successful candidates are expected to establish an active independent program of extramurally funded research and participate in veterinary medical and graduate teaching. We seek candidates who will complement the research strengths within the department and college. Program strengths in the department include cell and molecular physiology, endocrinology, cardiovascular and renal physiology, molecular pharmacology, reproductive physiology, toxicology, and neuroscience ([website: www.uga.vet.edu/vph](http://www.uga.vet.edu/vph)). A D.V.M./Ph.D or Ph.D. is required. Applicants should submit curriculum vitae, statement of research interests, and a list of three references to: **Dr. Scott Brown, Search Committee Chair, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, Athens, GA 30602.** E-mail: sbrown@calc.vet.uga.edu. Applications received by February 15, 2000, are assured full consideration. *The University of Georgia is an Equal Employment Opportunity/Affirmative Action Institution.*

BIOLOGY FACULTY POSITIONS

Calvin College seeks applicants for two tenure-track positions to begin September 2000. (1) Broadly trained MICROBIOLOGIST to teach general microbiology and microbiology for nursing students. (2) GENETICIST with strong background in contemporary biotechnology methods to teach undergraduate courses in genetics and biotechnology. As schedules permit, teaching responsibilities for both positions will include introductory cell biology for biology majors and/or a non-majors course. Successful candidates will be expected to develop research programs in their areas of specialization involving undergraduates. Review of applications will begin February 1, 2000. Calvin College is a liberal arts college in the Reformed tradition of Protestant Christianity. Please contact: **Randall Van Dragt, Chair, Biology Department, Calvin College, Grand Rapids, MI 49546.** E-mail: vdra@calvin.edu; Telephone: 616-957-6497. Visit our website: <http://www.calvin.edu/academic/biology/>.

POSITIONS OPEN

HEAD DEPARTMENT OF MOLECULAR AND CELL BIOLOGY

The University of Texas at Dallas

The University of Texas at Dallas invites applications and nominations for the position of Head of the Department of Molecular and Cell Biology. The successful candidate will be eligible to hold the Cyrus L. and Amelia A. Lundell Professorship of Life Sciences. He/she will have strong administrative and leadership abilities, an excellent record in scholarly research and teaching, and the demonstrated ability to attract external funding. The research may be in any area of molecular and cell biology. A competitive package of support resources will be customized to fit the needs of the successful applicant. The Department of Molecular and Cell Biology ([website: http://nsm1.utdallas.edu/bio/](http://nsm1.utdallas.edu/bio/)) focuses on basic research and education at the doctoral and undergraduate levels and is housed in the School of Natural Sciences and Mathematics. The University is now planning a major renovation and expansion of the physical facilities of the School. Applicants should send a curriculum vitae; a short description of research plans; a concise statement of leadership philosophy; and names, addresses and telephone numbers of five references to: **Academic Search #2043, The University of Texas at Dallas, P.O. Box 830688 M/S AD 23, Richardson, TX 75083-0688.** The target starting date is September 1, 2000. Review of applications will begin immediately and continue until the search is closed. *The University of Texas at Dallas is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from candidates who would enhance the diversity of the University's faculty and administration. Indication of sex and ethnicity for Affirmative Action statistical purposes is requested but not required.*

FACULTY POSITION IN BIOLOGY AT ILLINOIS INSTITUTE OF TECHNOLOGY

The division of biology seeks applications from outstanding candidates for a full-time tenure-track faculty position in the broad areas of molecular biology, biochemistry (especially physical biochemistry), and cell biology. The successful candidate will have significant postdoctoral experience and will complement existing strengths in prokaryotic genetic engineering, protein biochemistry, eukaryotic molecular genetics, and X-ray-based biophysics and structural biochemistry. The successful candidate is expected to initiate a vigorous research program suitable for external support, having been provided competitive start-up resources. The appointment may begin as early as fall 2000. Address inquiries to:

Dr. Dale Webster, Chair
Biology Faculty Search Committee
Division of Biology
Illinois Institute of Technology
3101 South Dearborn Street #182
Chicago, IL 60616

Illinois Institute of Technology adheres to Affirmative Action/Equal Employment Opportunity policies and strongly encourages applications from minority group members and women.

The Transgenic Animal Core at the University of Missouri-Columbia has an immediate opening for a RESEARCH ASSOCIATE with experience in the generation of genetically modified mice to serve as Assistant Director of the facility. Requirements include at least a M.S. degree and two years of experience in the manipulation and culture of mouse embryos and embryonic stem cells, including expertise in pronuclear microinjection, stem cell culture, transformation, selection, and stem cell injections into blastocysts. Knowledge of basic mouse husbandry (including embryo retrieval and transfer) is essential, as well as experience in cell karyotyping and analysis of DNA by Southern or PCR techniques. Excellent communication skills are a must. By January 30, 2000, interested individuals should send a curriculum vitae and names of three references to: **Dr. Michael Kubisch, N125 ASRC, East Campus Drive, University of Missouri, Columbia, MO 65211.** *The University of Missouri is an Equal Opportunity Institution.*



**MAYO CLINIC
TRANSPLANTATION BIOLOGY
RESEARCH PROGRAM**

The Transplantation Biology program at the Mayo Clinic is seeking faculty for tenure or tenure-track positions in the program. The ideal applicant will be excited about developing an independent, cutting-edge basic science research effort, and at the same time participating in a highly-interactive, multidisciplinary program. The program will consist of scientists working in the areas of cellular, molecular, and structural biology, biochemistry and immunology as they apply to fundamental issues in transplantation biology. Members of the program will also have appointments in the Mayo Medical School and Mayo Graduate School.

For more information, visit the Mayo Clinic Research website: <http://www.mayo.edu/research.html>. To inquire, please send a cover letter describing your research interests, a curriculum vitae and the names and addresses of three references to:

**Jeffrey L. Platt, MD
Transplantation Biology
Research Program
Mayo Clinic**

**Medical Sciences Building 2-66
Rochester, MN 55905**

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

**Faculty Positions in Cancer Research
LSU Health Sciences Center**

The Stanley S. Scott Cancer Center at LSU Health Sciences Center in New Orleans invites applications for tenure track or tenured positions at the Associate Professor or Professor level. Candidates should possess a Ph.D. or M.D. degree and have demonstrated excellence in their research as indicated by both publications and a track record of externally funded research grants. The successful applicants will be expected to pursue an independent, yet collaborative approach, addressing broad issues that relate to oncologic science. Research interests in prostate and/or lung cancer are encouraged but not required.

The search will give full consideration to applications that include a curriculum vitae (including funding grant history), four representative publications, and the names of three individuals that may be contacted for letters of reference.

Joint appointments in the Cancer Center and an appropriate Department at the LSU Medical School are anticipated. The individual Departments will be dependent on the successful applicants' expertise and interests. Laboratory space will be provided in a new state of the art facility in the heart of the Medical School complex. LSUHSC is an EOE/AA.

Interested candidates should submit their curriculum vitae to **Dr. Oliver Sartor, Director, Stanley S. Scott Cancer Center, Suite 620, 2025 Gravier Street, New Orleans, Louisiana 70112.**



Setting A New Course in Interdisciplinary Environmental Research

The Desert Research Institute (DRI), an independent environmental research institution of the University and Community College System of Nevada, has strategically set a course to develop new interdisciplinary environmental science centers to meet current and future challenges of solving complex environmental problems.

We are seeking dynamic research leaders to develop two such Centers, both of which will integrate biological, geological, hydrological, atmospheric, social, and economic sciences to evolve novel solutions to specific environmental management issues.

Both Directors will report to the President and lead faculty from all three of DRI's divisions (Atmospheric Sciences, Earth and Ecosystem Sciences, and Hydrological Sciences) to: (1) define the goals and vision of the new Center; (2) develop a strategic science plan to reach that vision, and (3) implement the plan to build a thriving research program. The Directors will set fiscal priorities and have fiscal responsibility for their respective Centers; work with DRI's executive staff to develop hiring priorities for the Centers; serve as faculty mentors and collaborators; facilitate cooperation in teaching and research with related departments at the Universities of Nevada, Reno and Las Vegas; interact directly with current and potential sponsors; serve as DRI's main liaisons with local, state and federal agencies involved in their research areas; and play a key role in building collaborative relationships between DRI and other institutions in the region and throughout the country. As members of DRI's Executive Staff, the successful candidates will be involved in setting institutional priorities.

*** The WES (Watershed Environmental Sustainability) Center** will focus on environmental management issues in watersheds, initially but not exclusively on the Lake Tahoe Basin. Ultimately, a key responsibility will be to guide the program forward to perform research related to other watersheds in the U.S. and abroad. This position will be located in Reno, NV.

*** CALEM (Center for Arid Land Environmental Management)** will focus on environmental management issues in dry lands, primarily in the U.S. desert southwest. A key responsibility will be to provide leadership that fosters an integration of scientific research across all fundamental components of the desert ecosystem. Las Vegas is the preferred location for this position but Reno is a possibility under appropriate circumstances.

For details about DRI and the requirements for both positions, visit us at www.dri.edu or contact Dr. Jim Coleman, Search Chair, Interim VP, Research and Business Development, jcoleman@dri.edu or 775/673-7322. Our salaries are competitive, negotiable, and commensurate with qualifications, and we offer excellent benefits.

Review of applications begins February 1, 2000, and continues until Position filled. ***Required: curriculum vitae, a letter describing your qualifications, and contact information for five references. Submit package to: Human Resources, DRI, 2215 Raggio Pkwy, Reno, NV 89512. Please reference Position #10-009 for CALEM Director; Position #10-010 for WES Director. DRI is an AA/EEO employer that hires only U.S. citizens and those eligible to work in the U.S.***

POSITIONS OPEN

ASSISTANT PROFESSOR BIOPHYSICS/BIOPHYSICAL CHEMISTRY DEPARTMENT OF MOLECULAR AND CELL BIOLOGY University of Connecticut

The Department of Molecular and Cell Biology invites applications for a tenure-track faculty position at the Assistant Professor level. We seek a biophysicist/biophysical chemist whose research focuses on structural biology to complement current departmental research strengths in protein folding and assembly, macromolecular structure determination, and molecular interactions. The preferred candidate will use extensively the techniques of analytical ultracentrifugation in his/her research and become affiliated with the University's NSF-funded Analytical Ultracentrifugation Facility (AUF). The successful applicant is expected to develop an extramurally funded, productive research program. Responsibilities will include teaching in the undergraduate biophysics program, which is unique among the Northeast's public universities, and participation in graduate courses appropriate to the applicant's areas of interest. In the year 2000, the AUF will move into research space in a new building that will become available to the Department. The main campus at Storrs is located between Boston and New York City in a rural area of northeastern Connecticut. Information about the research interests of the faculty, the teaching program, departmental resources, and the AUF may be obtained at the Department's website: <http://www.mcb.uconn.edu>. Interested individuals should send curriculum vitae, statement of research and teaching interests, and arrange for three letters of reference to be sent to: **Dr. E. Braswell, Chair, Biophysics Search Committee, Department of Molecular and Cell Biology, University of Connecticut, 75 North Eagleville Road, U-Box 125, Storrs, CT 06269-3125.** (Search # 00A203). Review of applications began December 1, 1999, and will continue until the position is filled. *We encourage applications from underrepresented groups, including minorities, women, and people with disabilities.*

COMPUTATIONAL MOLECULAR BIOLOGY

The Department of Biology of Pomona College, a highly selective, national liberal arts college, invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** to begin in fall 2000. Applicants should have broad training in biology, with considerable expertise in molecular modeling or bioinformatics. Postdoctoral experience is preferred. The appointee will participate in Pomona's Molecular Biology Program. The successful candidate will teach an introductory biology course (with laboratory) either in biochemistry/molecular biology/cell biology or in genetics. In addition, he/she will teach an upper-division course (with laboratory) involving molecular modeling or bioinformatics, which may alternate with another upper-division course in biology or molecular biology. The successful candidate will establish an active research program involving undergraduates, for which start-up funds are available. A multistation laboratory with SGI O2s, PCs, and Macintoshes is available for teaching and research. The successful candidate will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts and sciences setting. Please provide a statement of teaching philosophy and interests, which would indicate which introductory course the applicant prefers, and include a description of the upper-division course(s) proposed. In addition, please send curriculum vitae, statement of research interests, and three letters of recommendation to: **Computational Molecular Biology Search, Department of Biology, Pomona College, Claremont, CA 91711. Telephone: 909-607-2950; FAX: 909-621-8878; e-mail: lhoopes@pomona.edu.** For full consideration, applications should be received by February 1, 2000, and will be accepted until the position is filled. *Pomona College is an Affirmative Action/Equal Opportunity Employer. We strongly encourage applications from members of groups underrepresented in the sciences.*

POSITIONS OPEN

AQUATIC PROGRAM DIRECTOR DEPARTMENT OF BIOLOGY SOUTHWEST TEXAS STATE UNIVERSITY

The Department of Biology invites applications for a Director (**ASSOCIATE** or **FULL PROFESSOR** level) to administer and develop the Aquatic Resources Program within the Department of Biology. Specific duties are to (a) forge links between the Aquatic Resources Program at SWT and local, regional, state, and national agencies involved in the management, development, and conservation of aquatic resources; (b) facilitate and enhance the research activities of the Aquatic Program by securing funding via grants or contracts with the above agencies for research on water-related issues; (c) develop and implement short-term and long-term program innovations to enhance the current program and propel it to a national/international level of prominence; (d) coordinate course offerings for undergraduate and graduate students. We are looking for an individual with a proven track record in research grantsmanship and administration. A Ph.D. in some aspect of aquatic biology or water resources is required. Applicants should submit a curriculum vitae, copies of up to five publications, statements of research and administrative philosophies, photocopies of transcripts, and a list of three references including telephone numbers and e-mail addresses to: **Francis L. Rose, Chair, (Aquatic Director) Biology Department, Southwest Texas State University, San Marcos, TX 78666.** The Biology Department consists of 33 faculty, 100 graduate students, and 1400 undergraduate majors. SWT, a state university with 21,700 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. More can be learned about the department at website: <http://www.bio.swt.edu>. Review of applications begins on February 1, 2000, and will continue until a suitable candidate is found. *SWT is an Affirmative Action/Equal Opportunity Employer, and is committed to increasing the number of women and minorities in faculty and administrative positions.*

ASSISTANT PROFESSOR. The Reproductive Physiology and Endocrinology Group of the Department of Biological Sciences, Kent State University, invites applications for a tenure-track position to start August 2000. The appointee will be expected to develop a strong research program in reproductive or developmental biology and to participate in one or several graduate programs (cell biology, physiology, and ecology). Instructional responsibilities include graduate and undergraduate teaching. The Ph.D., postdoctoral experience, publications, and potential for extramural funding are required. Applications must include a statement of research and teaching interests, curriculum vitae, recent publications, transcripts, and three letters of recommendation. All materials should be submitted by January 31, 2000, to: **Dr. Douglas Kline, Department of Biological Sciences, 256 Cunningham Hall, Kent State University, Kent, Ohio 44242-0001. E-mail: dkline@biology.kent.edu.** *Kent State University is an Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGY BIOLOGICAL SCIENCES

ASSISTANT PROFESSOR tenure-track position starting August 2000. Ph.D. required; broad training/experience in biology and undergraduate education in the liberal arts. Teaching responsibilities (two courses per semester) will include general biology, general and medical microbiology for majors, a specialty course for M.S. candidates, and a course for non-majors. Interest in environmental sciences. Strong commitment to undergraduate teaching and research (research area open). Send statement of teaching and research interests, curriculum vitae, transcripts, and three letters of reference to: **Dr. Paul A. Richmond, Chair, Department of Biological Sciences, University of the Pacific, Stockton, CA 95211.** Visit us at website: <http://www.uop.edu>. Review will begin January 31, 2000. *To help meet the needs of an increasingly diverse student body, we strongly encourage women and minority candidates to apply.*

POSITIONS OPEN

Southern Illinois University-Carbondale invites applications and nominations for the position of Chair, Department of Plant Biology, beginning August 16, 2000. The appointment as Chair is on a continuing basis, and the individual will be appointed with permanent tenure at the rank of **ASSOCIATE PROFESSOR** or **PROFESSOR** in plant biology, depending upon qualifications. We are seeking a leader with demonstrable commitment to quality and innovation in teaching, research, and outreach relevant to our undergraduate, M.S., and Ph.D. programs. Applicants must hold a doctoral degree in plant biology/botany, or a related field. Applicants must have an established record of research accomplishments as demonstrated by publications in reputable journals of plant science, evidence of grantsmanship, and currently hold a tenured position. Experience in personnel management and budget development is preferred. Candidates with research and teaching experience in any areas of plant biology will be considered. SIUC has Carnegie Research II status; 19 faculty holding appointments in the department provide a dynamic and broadly diverse program of study and research in the plant sciences. A detailed description of the Department may be found at our website: <http://www.science.siu.edu/plant-biology/index.html>. Applications, nominations, or inquiries concerning this position should be directed to: **Dr. Barbara Crandall-Stotler, Department of Plant Biology, Southern Illinois University-Carbondale, Carbondale, IL, 62901-6509. E-mail: crandall@plant.siu.edu.** Applications should contain a letter of interest summarizing qualifications and administrative philosophy; a curriculum vitae; three representative publications; and the names, addresses, telephone numbers, and e-mail addresses of at least three references. Applications will be reviewed commencing February 1, 2000, and continue until the position is filled. *Southern Illinois University-Carbondale is an Affirmative Action/Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.*

FACULTY POSITIONS NEUROBIOLOGY IN BIOMEDICAL ENGINEERING University of Rochester

Applications are invited for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** positions within an extensive multidisciplinary neuroscience and biomedical engineering (BME) community. Applicants should have a Ph.D. and/or M.D. with training in both engineering and neuroscience and should have established an independent research program. Particular areas of research interest include sensory and motor systems, adaptive plasticity, and neural tissue engineering. Successful candidates will form a productive, independent, and externally supported research laboratory and will also lead the establishment of a multidisciplinary focus on neuroscience within the BME program. Participation in teaching activities in both the BME and neuroscience programs is expected. Competitive start-up packages are included. Salary is commensurate with rank and experience. Appointments may begin July 2000. Applications, including a curriculum vitae, statement of career goals, at least three letters of recommendation, and several publications, should be sent to: **Gary D. Paige, M.D., Ph.D., Chair, Department of Neurobiology and Anatomy, University of Rochester, 601 Elmwood Avenue, Box 603, Rochester, NY 14642.** *The University of Rochester is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR RESEARCH-TRACK POSITION

Available immediately for cellular and/or molecular neurophysiologists to study second-messenger signaling in the mouse olfactory system. Demonstrated experience and publications in patch clamp recording or confocal imaging required. Send curriculum vitae with three references to: **Frank Zufall, Ph.D., Department of Anatomy and Neurobiology, University of Maryland, 685 West Baltimore Street, Baltimore, MD 21201. E-mail: fzuf001@umaryland.edu.**



**Announcing the
James R. Petersdorf
Endowed Chair in
CNS INJURY RESEARCH**

The Kentucky Spinal Cord Injury Research Center at the University of Louisville School of Medicine is looking for a new faculty member at the Associate or Full Professor level. The candidate's research focus should complement existing programs in CNS injury and regeneration, neural precursor cells and spinal cord motor systems. The successful applicant will be an internationally recognized leader in his/her field, with a strong history of publication, funding and scientific accomplishment. The position will have a primary appointment in the Department of Neurological Surgery at the University of Louisville School of Medicine with a joint appointment in an appropriate basic science department. The Endowed Chair represents a commitment on the part of Norton HealthCare, the Kentucky Spinal Cord and Head Injury Research Trust and the University of Louisville to building a strong research program in CNS injury. Applications should be received by February 15, 2000, and should include a curriculum vitae, three references and a summary of research accomplishments and future directions.

Send applications to:
Christopher B. Shields, M.D.
Norton HealthCare Professor and Chairman
Department of Neurological Surgery
210 E. Gray St., Ste. 1102
Louisville, KY. 40202

For additional information call (502) 629-5510

The University of Louisville is an Affirmative Action, Equal Opportunity Employer.

GRANTS



HUNTER'S HOPE

The Hunter's Hope Foundation was established by Jim and Jill Kelly in September 1997 after their son, Hunter, was diagnosed with Krabbe Disease. Hunter's Hope is Jim and Jill Kelly's life-long commitment to both increase public awareness of Krabbe Disease and support research efforts to find a cure for Krabbe and other leukodystrophies.

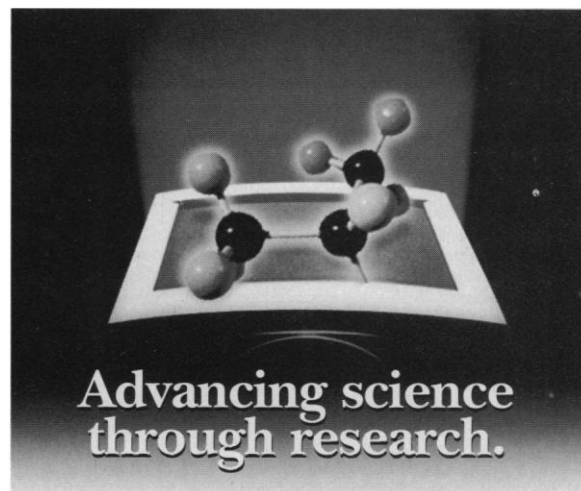
Call for Research Applications

1. **Post-Doctoral Fellowships** provide stipend support for individuals who are within five years of receiving their terminal degree (MD, DVM, Ph.D., or equivalent degree). Fellows will be working with senior investigators within their sponsoring institution on either basic mechanisms or treatment approaches to patients with Krabbe and other leukodystrophies. Fellowships will be awarded for two years with stipends ranging from \$40,000 - \$60,000 per year.
2. **Pilot Studies**, funded for \$30,000, will be awarded to researchers who wish to test new concepts or ideas. Proposals for this category will be funded at anytime throughout the year.
3. **Major Research Grants** for \$100,000 per year for one to three years will be awarded to senior investigators who are studying either basic mechanisms or treatment approaches to Krabbe Disease.

The deadline for the next cycle of applications will be April 15, 2000 with a funding date of July 1, 2000. The date for receipt of applications for the subsequent funding cycle will be September 15, 2000 with funding by January 1, 2001.

Please contact the Hunter's Hope Foundation Scientific Advisory Board for applications:

Debra Cagwin
Grants Administrator
Hunter's Hope Foundation
P.O. Box 643
Orchard Park, NY 14127
(716) 667-1200
(716) 667-1212 (fax)
1 (877) 984-HOPE (toll free)



Parke-Davis, a Division of Warner-Lambert Company, is devoted to discovering, developing, manufacturing, and marketing quality pharmaceutical products. At our state-of-the-art laboratory of Molecular Genetics in Alameda, CA, we are totally dedicated to the development of products that help treat such inherited diseases as diabetes, cardiovascular disease and cancer.

POSTDOCTORAL RESEARCH FELLOW

JOB CODE: CH-991693SC

Working in a existing Transgenic Research Group, you will characterize ion channel mutant mice (spontaneous, transgenic or knockout) as well as develop and characterize novel transgenic and knockout models of neuropathic pain.

To qualify, you must have a Ph.D in Neuroscience or relevant biological area. Desired experience include molecular characterization of ion channel function, physiological characterization of animal models of neurological disorders, and/or behavioral studies of neuropathic pain in animal models.

We offer competitive salaries, outstanding benefits, and an environment that's conducive to professional growth. Please send your resume with Job Code (SEE ABOVE), to: **Parke-Davis, Human Resources Department, CH, 1501 Harbor Bay Parkway, Alameda, CA 94502. Fax: 510/749-4294. Or e-mail: HR.PDLMG@wl.com.** We are an equal opportunity employer. Smoke-free environment.



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POSITIONS OPEN

SENIOR PAIN SCIENTIST AND CENTER DIRECTOR UNIVERSITY OF FLORIDA Brain Institute

The University of Florida Brain Institute (UFBI) and Colleges of Dentistry and Medicine invite applications for a tenure-track position at the level of **PROFESSOR** or **ASSOCIATE PROFESSOR**. The applicant should have a background and strong interest in research related to pain and be willing to participate in collaborative efforts to study mechanisms, pathophysiology, or management of pain. It is expected that the applicant will have established or will develop an externally funded research program and will contribute to mentoring and teaching in the neurosciences. The applicant will have the opportunity to help establish and direct a campuswide, multidisciplinary center involving an active group of pain researchers as a program of the Brain Institute. The UFBI is a campuswide research program with over 290 faculty from 51 departments and 10 colleges, with a new \$60 million building containing a wide array of advanced technology cores dedicated to interdisciplinary research in the neurosciences ([website: http://www.ufbi.ufl.edu](http://www.ufbi.ufl.edu)). Candidates should have a Ph.D. or equivalent professional degree and a track record of research productivity. Competitive salary support and start-up funds will be provided. Applications, including a curriculum vitae, statement of research interests, representative publications, and a list of at least three references should be sent to: **Dr. Charles Vierck, Box 100405, Health Science Center, University of Florida, Gainesville, FL 32610-0405**. Applications will not be considered after February 15, 2000. *The University of Florida is an Equal Opportunity/Affirmative Action Institution. The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records law. Search applications, résumés, and other documents related to the search will be available for public inspection.*

MOLECULAR NEUROSCIENTIST SETON HALL UNIVERSITY

The Department of Biology, Seton Hall University, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin in the fall of 2000. Applicants must have a Ph.D. in neuroscience/molecular biology, relevant postdoctoral experience, and research interests in neurobiology with an immunology or virology concentration preferred. The successful candidate will be expected to establish an externally funded research program and contribute to both undergraduate and graduate teaching programs. Send curriculum vitae, description of research interests, and three references to: **Office of the Provost, Attention: Faculty Position Number 100, Seton Hall University, 400 South Orange Avenue, South Orange, NJ 07079**. E-mail: changsul@shu.edu; [website: http://www.shu.edu/depts/biology/index.html](http://www.shu.edu/depts/biology/index.html). Review of applications will begin January 15, 2000, and continue until the position is filled. *Affirmative Action/Equal Opportunity Employer.*

MASS SPECTROMETRIST

The Department of Chemistry of the University of Cincinnati invites applicants for a tenure-track position in the area of mass spectrometry at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level. Outstanding applicants in any area of chemistry will be considered. The applicant should have strong instrumental interests and skills. The successful candidate is expected to be committed to quality teaching and a vigorous, externally funded research program. A résumé, a description of future research plans, a list of course-teaching preferences, and three letters of recommendation should be sent to: **Professor Thomas H. Ridgway, Search Committee Chair, Department of Chemistry, P.O. Box 210172, University of Cincinnati, Cincinnati, OH 45221-0172**. E-mail: Ridgwayth@uc.edu. Résumés accepted until filled. The search committee will begin reviewing applications on December 30, 1999. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR DALHOUSIE UNIVERSITY Department of Physiology and Biophysics and Division of Endocrinology and Metabolism

The Department of Physiology and Biophysics and the Division of Endocrinology and Metabolism of the Department of Medicine invite applications for a new, midcareer faculty member in the area of endocrinology. We seek a person with interests in cell signaling to provide links and possible collaborations between the two departments and between existing groups working at the cellular level in endocrinology. Applicants must have a strong, funded research program with an established record of research publications, undergraduate teaching, graduate student supervision, and contributions to departmental administration. This is a salaried tenure-track appointment. However, the successful applicant will be expected to apply for salary support from appropriate granting agencies. Applicants must be eligible to apply for Medical Research Council of Canada Scientist or Senior Scientist awards and have a record of previous salary support. The level of appointment and salary will depend on previous experience. Send a curriculum vitae, publication list, and the names of three references to: **Dr. Andrew S. French, Head, Department of Physiology and Biophysics, Dalhousie University, Sir Charles Tupper Medical Building, Halifax, Nova Scotia B3H 4H7 Canada**. Further information about the department is available at [website: http://www.physiology.dal.ca](http://www.physiology.dal.ca). Closing date for applications: January 31, 2000. *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified aboriginal peoples, persons with a disability, racially visible persons, and women.*

ANIMAL PHYSIOLOGIST DEVELOPMENTAL BIOLOGIST UNIVERSITY OF SOUTHERN MAINE

We invite applications for two tenure-track **ASSISTANT PROFESSORSHIPS** in the Department of Biological Sciences (September 2000). The Physiologist will participate in teaching courses in human anatomy and physiology for allied health students. The Developmental Biologist will participate in teaching introductory courses in biology. Both individuals will also teach upper-level courses in their area of expertise. Both will be expected to pursue active research programs with student participation. All requirements for the Ph.D., including thesis defense, must be completed by June 30, 2000. Send letter of application, curriculum vitae, statement of teaching and research interests, and the names of three references with complete contact information to either: **Physiologist or Development Biologist Search Committee, Biological Sciences Department, University of Southern Maine, P.O. Box 9300, Portland, ME 04104-9300**. Review of applications will begin February 1, 2000, and continue until position is filled. *USM encourages applications from and provides a welcoming atmosphere to women, ethnic minorities, and persons with differing abilities.*

ASSISTANT PROFESSOR, Plant Evolutionary Biologist. The Department of Biological Sciences of Kent State University invites applications for a tenure-track Assistant Professor position to begin August 2000. The individual is expected to develop a research program in the areas of systematics and/or ecology. Teaching at the undergraduate and graduate levels will be in areas appropriate to the interests and training of the candidate. Modern research facilities and significant start-up funds are available. A Ph.D. with postdoctoral experience is required. Send curriculum vitae, statement of research and teaching interests, copies of recent publications, and three letters of recommendation by January 31, 2000, to: **Dr. Alan Graham, Chair, Plant Evolutionary Biologist Search Committee, Department of Biological Sciences, 256 Cunningham Hall, Kent State University, Kent, Ohio 44242**. *Kent State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Human Anatomy and Physiology. **ASSISTANT PROFESSOR**, tenure-track: shared teaching responsibilities in human anatomy and physiology (two-semester sequence for prenursing), human biology (non-majors), and human anatomy (biomedical sciences). Demonstrated ability to teach and/or perform effectively, scholarly achievement or research, continued preparation and study, contribution to student growth and development, and service to the university and community. Ph.D. in human-based biology required. Experience in human anatomy/dissection to meet position responsibilities, with greater consideration given to candidates having experience/training in neuroscience. Preference to candidates with successful postsecondary teaching experience, strong commitment to teaching (B.S./M.A.) and research programs involving undergraduate and graduate (M.A.) students. Advising and committee participation is expected. The successful candidate will have demonstrated ability to teach and work with persons from culturally diverse backgrounds. Send letter of application, including statements of research plans and teaching philosophy; curriculum vitae; transcripts (copies acceptable for initial screening); and the names, telephone numbers, postal and e-mail addresses of three references. All materials must be postmarked by January 21, 2000. Submit materials to: **Chair, Department of Biological Sciences, St. Cloud State University, 720-Fourth Avenue South, MS-262, St. Cloud, MN 56301-4498**. Telephone: 320-255-4736; FAX: 320-255-4166; e-mail: Biologyst@StCloudState.edu or www.StCloudState.edu/~biol. Materials received after the postmark date are not guaranteed consideration. *SCSU is committed to excellence and actively supports cultural diversity. To promote this endeavor, we invite individuals who contribute to such diversity to apply, including minorities, women, GLBT, persons with disabilities, and veterans.*

ASSISTANT PROFESSOR in ecology and evolutionary biology: The Department of Biological Science at Florida State University invites applications for a position at the Assistant Professor level. We are searching broadly and will consider any excellent candidate with research interests in ecology, evolution, or conservation biology. Teaching responsibilities will include an undergraduate course appropriate to the applicant's area and participation in the graduate program. Applicants should send a curriculum vitae, a description of research interests and goals, a statement of teaching interests, and up to three reprints. Applicants should also provide the names and contact information for three references and arrange to have letters of recommendation sent to the search committee. To receive full consideration, all application materials must be received by February 3, 2000, and should be submitted to: **Ecology and Evolutionary Biology Search Committee, Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100**. E-mail: search3@bio.fsu.edu or [website: http://www.fsu.edu/~biology](http://www.fsu.edu/~biology). *Florida State University is an Affirmative Action/Equal Opportunity Employer.*

MIDDLEBURY COLLEGE AQUATIC ECOLOGIST

The Department of Biology invites applications for a two-year term position, beginning 1 September 2000, in aquatic ecology. Candidates should be able to teach courses in general ecology and an advanced course in aquatic ecology or in related area of interest. Appointment will be made at the rank of **VISITING ASSISTANT PROFESSOR** (Ph.D.). Candidates should provide evidence of commitment to excellent teaching and scholarly potential. Send a letter of application with a statement of teaching interests; curriculum vitae; graduate transcript; a sample of scholarly work; and three current letters of recommendation, at least two of which must speak to teaching ability, to: **Aquatic Ecology Search Committee, Department of Biology, Middlebury College, Middlebury, VT 05753**. Complete applications will start to be reviewed on January 14, 2000. *Middlebury College is an Equal Opportunity Employer and encourages applications from women and members of minority groups.*

**NATIONAL INSTITUTES OF HEALTH
NATIONAL CENTER FOR RESEARCH RESOURCES
Health Scientist Administrator/Veterinary Medical Officer**

The National Center for Research Resources invites applications for the position of Health Scientist Administrator/Veterinary Medical Officer, NCRR, NIH. The incumbent of this position will be responsible for providing technical leadership and scientific guidance in the planning, development, evaluation, and administration of resource grants and contracts for the Comparative Medicine area of the NCRR. Some of the major professional duties the incumbent performs include: 1) negotiations with officials of the nation's universities and research institutions; 2) interpretation of policies and procedure; 3) identification of research animal resource needs; 4) advisor to grant officials concerning the development of plans for research animal resources; and 5) performs various other related scientific and administrative functions, including participation with senior scientists, department officials and academic deans in the development of resource programs involving inter-university and institutional programs. Incumbent is required to be knowledgeable in various laboratory animal sciences, including genetics, molecular biology, and other relevant scientific areas.

Applicants are encouraged to address the following knowledge, skills, and abilities: (1) Professional knowledge of principles, theories and practices applicable to broad aspects of health related research using animals; (2) Ability to plan and manage major animal-oriented research programs involving complex administrative/management issues; (3) Ability to synthesize information and to write clearly, logically and persuasively on complex scientific topics for a diverse scientific and nonscientific audience; (4) Ability to meet and interact with scientific health professionals and members of the lay community; (5) Ability to organize, plan and manage group meetings; (6) Knowledge of Federal grants and contract procedures and general administrative management process. This is a permanent full-time position with a salary range of \$68,570 to \$89,142 per annum commensurate with qualifications. A recruitment bonus of up to 25 % of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25% of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

Send applications to Ms. Erin Bandak, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the full announcement contact Ms. Bandak at NCRR on (301) 496-1524. Deadline for applications is January 3.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

Applicants with access to the Internet may browse the NCRR Home Page to view the full text vacancy announcement at <http://www.nih.ncrr.gov>

NIH is an Equal Opportunity Employer

Clinical Associate – Clinical Pharmacology

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

The candidate will be responsible for writing clinical study reports and protocols with pharmacokinetic objectives and monitoring clinical studies for our Clinical Pharmacology Department. As a liaison, you will work with outside investigators and Merck Research Laboratories' departments.

The successful candidate should possess a Ph.D. or the equivalent, preferably in biological or health sciences, and 1-2 years' clinical research experience in academia or industry.

Merck is committed to providing employees with a stimulating work environment, as well as a competitive salary and benefits package. For consideration, please forward your resume and a cover letter, including salary requirements and **Job Code: XHXMRSMLS12179**, to: **Merck Positions, PO Box 92164, Los Angeles, CA 90009-2164. E-mail: merck@research.com Fax: (310) 337-3393.** We are an Equal Opportunity Employer, M/F/D/V.



NeoTherapeutics, Inc., a cutting-edge development stage pharmaceutical company located in Irvine, California, is focused on designing and developing novel small molecule drugs capable of promoting nerve regeneration and repair for a range of neurological diseases and conditions such as Alzheimer's and Parkinson's diseases, stroke, and spinal cord injury. Additional compounds in the NeoTherapeutics pipeline address other health issues such as migraine headache and depression.

DIRECTOR OF RESEARCH

NeoTherapeutics, Inc. has an opportunity for an experienced neuroscience researcher to assume responsibility for internal and external research in a multidisciplinary research program targeting drug development for nervous system diseases. The successful candidate will have a Ph.D. in neuroscience or a related field, ten years of research experience, with at least five years of pharmaceutical industry experience, excellent written and oral communication skills, and experience managing external contract and collaborative studies. Proven success in managing/supervising science professionals in a team environment is required. This Director of Research will be responsible for communicating the Company's research findings through presentations, regulatory submissions, scientific publications and project team reports.

NeoTherapeutics offers competitive compensation and benefits, and an opportunity for advancement within the Company. Please send your curriculum vitae in confidence, with a cover letter to:

NeoTherapeutics, Inc., Human Resources, AD#SM115,
P.O. Box 57052, Irvine CA 92619-7052.

Additional Company information can be found on the NeoTherapeutics web site at www.neotherapeutics.com

NeoTherapeutics, Inc. is an affirmative action and equal opportunity employer offering a smoke-free work environment.

POSITIONS OPEN

GENETIC TOXICOLOGIST UNIVERSITY OF TEXAS AT EL PASO

The Border Biomedical Research Center (BBRC) and the Department of Biological Sciences at the University of Texas at El Paso are seeking a genetic toxicologist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful candidate will be expected to develop an independent research program focusing on the role of genetic variation on susceptibility to environmentally related diseases. We are particularly interested in investigators who are using molecular approaches to studying DNA repair variability in human populations, xenobiotic metabolism, or other systems of toxicological importance in human populations. Our department offers a Ph.D. in pathology and participates in an interdisciplinary Ph.D. in environmental science and engineering. Research facilities include molecular biology and analytical chemistry, analytical cytology, tissue culture, and sequencing, as well as aquatic and small-animal facilities. Teaching responsibilities involve both undergraduate and graduate courses. Requirements for this position include a Ph.D. or equivalent degree and at least three years of postdoctoral research experience. For consideration, applicants should submit a curriculum vitae, a concise description of their research program or plan, a statement of teaching philosophy, and the names of three references by January 15, 2000, to: **Dr. Pablo Arenaz, Chair, Search Committee, Department of Biological Sciences, The University of Texas at El Paso, El Paso, TX 79968-0519.**

The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.

ASSISTANT PROFESSOR OF CELL BIOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

Applications are invited for a tenure-track position as Assistant Professor of cell biology. New faculty will be actively recruited in this area over the next three years as part of a new initiative in cell biology and neuroscience. Applicants should be interested in the integration of molecular-level information with an understanding of structural, spatial, and compartmental relationships in the cell. Specific areas of interest include chromosome structure and function; receptors; extracellular matrix; membrane trafficking and secretion; and DNA repair, recombination, or transcription. The successful candidate will have a demonstrated record of excellence in research and have an opportunity to contribute to instruction in a wide variety of graduate and undergraduate programs. Applicants must have a Ph.D. or equivalent degree and have postdoctoral research experience. Salary is commensurate with experience, and a competitive start-up package will be available. Applicants should submit a curriculum vitae, statement of research interests and relevant reprints, and should arrange for at least three letters of reference to be sent to: **Chair, Cell Biology Search Committee, 1208 Spieth Hall, University of California, Riverside, CA 92521.** Review of applications will commence on December 10, 1999. However, all applications received by January 31, 2000, will receive full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ECOLOGIST OR LANDSCAPE ARCHITECT IOWA STATE UNIVERSITY

ASSISTANT or ASSOCIATE PROFESSOR of Landscape Architecture, nine-month tenure-track or tenured appointment; 75 percent teaching, 25 percent research. Master of landscape architecture or Ph.D. in related field such as ecology required. This position will focus strongly on the integration of ecological knowledge in landscape restoration, landscape management, land use planning and site design, and will require teaching undergraduate and graduate courses in ecological planning and site ecology and other courses in specialty area. For a complete position description and application information, visit our website: www.design.iastate.edu/LA.SEARCH or e-mail: landarch@iastate.edu.

POSITIONS OPEN

The Department of Obstetrics and Gynecology has an opening for a faculty member, **ASSISTANT PROFESSOR** in the tenure track, to begin in spring/summer 2000. The Division of Gynecologic Oncology is seeking a physician-scientist to establish a vigorous translational research program in gene and immunotherapy of ovarian cancer. Applicants should have a documented background in molecular biology related to gene therapy and board certification/eligibility in obstetrics and gynecology and certification/eligibility in gynecologic oncology by the American Board of Obstetrics and Gynecology. Candidates holding combined M.D.-Ph.D. degrees are preferred. The successful candidate will have laboratory facilities in a newly constructed research building and will collaborate with established investigators in Abramson Family Cancer Center and the Institute for Human Gene Therapy. Candidates should submit a curriculum vitae, statement of research interest, a letter of interest and four references to:

Stephen C. Rubin, M.D.
Division Director, Gynecologic Oncology
University of Pennsylvania Health System
Department of Obstetrics/Gynecology
3400 Spruce Street
1st Floor—Courtyard Building
Philadelphia, PA 19104

The University of Pennsylvania is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR BIOLOGY

Position available for highly experienced molecular biologist to join an interactive group studying the family of enzymes responsible for the initiation of O-glycosylation (e.g., **Hagen et al., J. Biol. Chem. 274:6797, 1999; Ten Hagen et al., J. Biol. Chem. 274:27867, 1999.**) The goal of our work is to (1) define the role played by O-glycosylation in development; and (2) delineate the structure/function relationship of these enzymes. Opportunities will be provided to the successful applicant to develop his/her own research project. We also have **POSTDOCTORAL FELLOWSHIPS** available and can accommodate dual career needs (or more junior scientists interested in this area). Please send curriculum vitae and the names of three references to: **Dr. Lawrence A. Tabak, Senior Associate Dean for Research, School of Medicine and Dentistry, Box 611, University of Rochester, Rochester, NY 14642.** E-mail: Lawrence.Tabak@urmc.rochester.edu.

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

The Department of Neurology of the University of California San Francisco is recruiting for the position of **ASSISTANT PROFESSOR**. It is anticipated that the successful applicant will hold the Robert B. Aird Chair in Neurology and will be expected to participate in the teaching and clinical programs of the Department. Board-eligible neurologists with a strong background in neuroscience research are invited to apply. This will be a joint search with the Neuroscience Graduate Program. Only applicants judged capable of successful independent laboratory-based neuroscience research will be considered. We particularly encourage individuals with an interest in epilepsy to apply. Applicants should forward their curriculum vitae and three letters of reference to: **Howard Fields, M.D., Ph.D., Chairman of the Search Committee, Department of Neurology, Box 0114, University of California, San Francisco, CA 94143.**

UCSF is an Affirmative Action Employer. UCSF undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era and special disabled veterans.

POSITIONS OPEN

ANATOMICAL VETERINARY PATHOLOGY NORTH CAROLINA STATE UNIVERSITY

The Department of Microbiology, Pathology, and Parasitology, North Carolina State University, seeks applicants for an **ASSISTANT PROFESSOR** tenure-track position in anatomical veterinary pathology effective July 1, 2000. Primary duties involve developing or sustaining an independent research program. Research interests in the department include viral and chemical carcinogenesis; toxicological pathology of environmental contaminants; and the molecular pathogenesis of viral, bacterial, and parasitic infections. Additional duties will include a commitment to teaching and/or pathology service. Qualified applicants must have D.V.M. (or equivalent) and Ph.D. degrees. Preference will be given to applicants who are ACVP diplomates. Applicants should submit a curriculum vitae, three letters of recommendation, and statements of teaching and research interests before February 15, 2000, to: **Dr. Talmage Brown, Department of Microbiology, Pathology, and Parasitology, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.** Telephone: 919-513-6258; FAX: 919-513-6455; e-mail: Talmage_Brown@ncsu.edu. Visit our website: www.cvm.ncsu.edu/. *Individuals with disabilities desiring reasonable accommodations in the application process should contact: Dr. Lance Perryman, Telephone: 919-513-6250; FAX: 919-513-6455; TDD: 919-515-9617. Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF CHEMISTRY THE UNIVERSITY OF TEXAS AT EL PASO

A tenure-track opening in analytical chemistry at the Assistant Professor level. All research areas of analytical chemistry focusing on environmental or materials chemistry will be considered. The candidate will be expected to teach and contribute in the University of Texas at El Paso's Ph.D. programs in environmental science and engineering and/or materials science and engineering. Candidates must have a strong commitment to teaching and research at both the undergraduate and graduate level and a potential for obtaining extramural funding. Applicants must have a Ph.D. in analytical chemistry. Candidates should send a résumé, statement of research interests, teaching philosophy, and three letters of reference (under separate cover) to: **Analytical Chemist Search Committee, University of Texas at El Paso, Department of Chemistry, El Paso, TX 79968-0513.** More information on our Chemistry Department can be located at website: <http://www.chemistry.utep.edu>. *The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*

PRECLINICAL FACULTY

Lake Erie College of Osteopathic Medicine (LECOM) invites applications to fill full-time, doctoral-level preclinical faculty positions in medical anatomy, biochemistry, microbiology, pharmacology, and physiology. Applicants should have excellent teaching skills with experience in medical school education. Applicants must also be prepared to take leadership roles and to help guide their respective disciplines into the 21st century. Faculty are expected to be active in research. Rank is based upon qualifications and experience; salary and benefits are competitive. Applicants should forward a curriculum vitae; brief summary of teaching interests and research plans; administrative philosophy; career objectives; and names, addresses, and telephone numbers of at least three professional references to: **Silvia M. Ferretti, D.O., Dean and Vice President of Academic Affairs, Lake Erie College of Osteopathic Medicine, 1858 West Grandview Boulevard, Erie, PA 16509.** Applications will be screened immediately and will continue to be accepted until all positions are filled. *LECOM is an Affirmative Action/Equal Opportunity Employer and encourages female and minority candidates.*

IMMUNIZATION INITIATIVES

As a Fortune 500 global leader in the manufacture and marketing of medical devices and diagnostic systems, Becton Dickinson has been at the forefront of medical technology, helping people live healthier lives. The following opportunities are immediately available at our Franklin Lakes, NJ corporate headquarters:

DIRECTOR OF BUSINESS DEVELOPMENT

Work with regional, national and worldwide business teams to develop new business initiatives in immunization. Implement strategies to ensure delivery devices are bundled appropriately with disposal containers, and included in new global vaccine and safe injection financing schemes. Direct technology and business assessment of U.S. vaccine market; develop strong business partnerships abroad. Graduate training in Business; significant experience developing business in the vaccine or related pharmaceutical industries; background in international business. **Job Code: DBD**

IMMUNIZATION SPECIALIST

Support business teams through technical input, scientific analysis, hands-on assistance, and the development of sales tools. Organize expert scientific advisory group meetings; manage grants and technical projects; keep abreast of vaccine delivery issues, policies and business trends. PhD in related science (immunology, microbiology, etc.) or equivalent; research and vaccine development experience (industry preferred but academic acceptable); ability to write and present scientific data; strong quantitative and computer skills. International vaccine delivery experience a plus. **Job Code: IS**

Please forward your resume and salary history/requirements to: **BD, Attn: Job Code, P.O. Box 3687, Scranton, PA 18505-0687. Fax: 888-771-9898. E-mail: BD@Alexus.com** EOE



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Pharmaceutical Positions

Challenging and aggressive positions are available in a growing Pharmaceutical Division of a Leading International Petroleum / Petrochemical Company.

- **Pharmacologist**
Oncology, pulmonary, diabetes or dermatology background. Implement, design and develop studies in support of drug discovery/development process. Also evaluate in-license candidates.
- **Combinatorial Chemist**
Conduct research in the development and application of combinatorial chemistry technology to the drug discovery/development process.
- **Computational Scientist**
Conduct computer-assisted drug design in support of drug discovery and advancement of drug candidates.

MS/PhD candidates with a minimum of 3 years pharmaceutical industry experience desired to work in either USA or Korea research facility.

Qualifying candidates should forward CV with cover letter to: **SK Bio-Pharmaceutical R&D Center, 140 New Dutch Lane, Fairfield, NJ 07004. Fax: (973) 227-4488. Email: jameslee@skcorp.com**

CENTRAL DRUG RESEARCH INSTITUTE, LUCKNOW (INDIA)

ADVERTISEMENT No. 4/99

POSITIONS FOR BIOMEDICAL SCIENTISTS

Central Drug Research Institute is a premier Research Institute of the Council of Scientific & Industrial Research devoted to new Drug Research and Development in India. Besides synthesis and screening of biologically active compounds, the Institute has high thrust on the basic research related to new drug development. To further strengthen the latter activity, the Institute is now looking for active researchers of Indian origin who are desirous to take up their research career in India in the areas of Molecular Pharmacology, Molecular Endocrinology, Molecular Parasitology, Molecular Microbiology, Genomics, Combinatorial Chemistry, Bioinformatics and Molecular & Cellular Immunology of parasitic diseases.

1. **SCIENTIST 'E-I' [GR. IV(3)]** (Scale of Pay: Rs. 12,000-16,500)

ESSENTIAL QUALIFICATION: Ph.D degree in any of the above with at least 4 years research experience as evidenced by an outstanding record of publications in high impact National/International Journals. **JOB REQUIREMENTS:** These are independent group leader level positions where the selected candidates are expected to initiate new line of research in respective areas relevant to new drug discovery programme.

2. **SCIENTIST 'C' [GR. IV(2)]** (Scale of Pay: Rs. 10,000-15,200)

ESSENTIAL QUALIFICATION: Ph.D. degree in any of the above with at least 1 year research experience as evidenced by high quality publications in high impact National/International Journals. **JOB REQUIREMENTS:** These are independent group leader level positions where the selected candidates are expected to initiate new line of research in respective areas relevant to new drug discovery programme.

REMUNERATION

The total emoluments for Scientist 'C' and Scientist 'E-I' are Rs. 16,240/- and Rs. 19,280/- p.m. respectively. The candidates must clearly indicate their age, which should not exceed 35 years for Scientist 'C' and 40 years for Scientist 'E-I' as of 31st January, 2000 relaxable by 5 years for SC/ST/Physically handicapped and 3 years for OBC candidates.

APPLICATION

Candidates residing abroad must send their detailed Bio-data indicating full details of academic career from Matriculation/High School onwards providing all the required information with copy of their outstanding publications and names of three referees immediately, which should reach to the *Director, Central Drug Research Institute, Chattar Manzil Palace, Post Box No. 173, Lucknow - 226 001 (U.P.) India* on or before 31st January, 2000 positively. The candidates who had already applied in response to our earlier advertisement need not apply again. If any of the candidates is not found suitable for the post applied for by him/her, he/she may be considered for a lower post. Mere fulfilling the minimum prescribed qualifications and experience will not vest a right in a candidate for being called for interview. The Institute reserves the right to call for interview only those candidates who in its opinion are found to be suitable. Age-limit, qualifications and/or experience can be relaxed in the cases of exceptionally meritorious candidates.

POSITIONS OPEN

The James Graham Brown Cancer Center of the University of Louisville ([website: www.bcc.louisville.edu](http://www.bcc.louisville.edu)) plans an expansion of programs in the molecular and cellular biology of cytokines, with an emphasis on chemokines, hematopoietic stem cells, and endothelial cells. Two tenure-track positions are available at open rank (**ASSISTANT, ASSOCIATE, or FULL PROFESSOR**) dependent upon experience and qualifications. Applicants must have an M.D. or Ph.D., postdoctoral research experience, a strong track record of publications, and will be expected to establish an independently funded research program. Candidates with clear evidence of scientific expertise in contemporary molecular approaches and a history of funded research are encouraged to apply. The successful candidate will join a cadre of investigators in the Cancer Center and other research programs in the Schools of Health Sciences working on the molecular biology of chemokines and their receptors, photodynamic therapy, endothelial cell biology, mechanisms of carcinogenesis, tumor immunology, cytokine regulation of inflammatory processes, oligonucleotide-mediated gene therapy, molecular modeling of DNA interactions, molecular genetics of birth defects, signal transduction, and the biochemistry of steroid hormone receptors. The Cancer Center houses excellent shared facilities for molecular and cellular biology, including flow cytometry and cell sorting, DNA sequencing, molecular modeling, and facilities for transgenic mice. Please send a curriculum vitae with a bibliography, a synopsis of research interests, and the names and telephone/facsimile/e-mail of at least three references to: **Dr. Stephen C. Peiper, Search Committee Chair, James Graham Brown Cancer Center, University of Louisville, 529 South Jackson Street, Louisville, KY 40202** by February 29, 2000. E-mail: scp@bcc.louisville.edu.

ASSISTANT PROFESSOR, biochemistry; Clare Boothe Luce Professor in Chemistry at Creighton University. Creighton University invites applications from qualified candidates in the field of biochemistry for a Clare Boothe Luce Professor in the Chemistry Department. The specific area of biochemistry specialization is open, but preference will be given to applicants with a strong background in chemistry and whose research and teaching interests best complement those of the present faculty. We seek an individual with the potential to be an excellent scholar-teacher, mentor, and role model for undergraduate women interested in scientific careers. The successful applicant will be expected to teach an introductory level biochemistry course (with laboratory), an advanced specialty course, and to assist in the general chemistry program when necessary. The potential faculty member will also be expected to develop an effective and sustainable research program involving undergraduate students. This is a tenure-track appointment at the Assistant Professor level. Interested candidates should send a letter of intent, a curriculum vitae, statements of research and teaching interests, and have undergraduate and graduate transcripts and three letters of recommendation sent to: **Search Committee, Chemistry Department, Creighton University, Omaha, NE 68178-0104**. To ensure full consideration, the Search Committee should receive all materials by 24 January 2000. For further information about the Creighton University Chemistry Department, please see our [website: http://sampo.creighton.edu/](http://sampo.creighton.edu/). *Creighton University is a Jesuit, Catholic, Affirmative Action/Equal Employment Opportunity Institution that encourages applications from qualified individuals of all backgrounds who believe that they can contribute to the distinctive educational tradition of the University.*

STAFF ASSOCIATE

Position available to conduct research on calcium channels. Applicants must have a B.S. or equivalent and four years of experience in biophysics, preferably with prior experience in recording single calcium channels in planar lipid bilayers. Send curriculum vitae to: **Andrew R. Marks, M.D., Molecular Cardiology Program, Columbia University, Box 65, 630 West 168th Street, New York, NY 10032**. We take Affirmative Action toward Equal Employment Opportunity.

POSITIONS OPEN

ENVIRONMENTAL/CONSERVATION SCIENCE IN LATIN AMERICA

Tulane's Stone Center for Latin American Studies; Department of Ecology, Evolution, and Organismal Biology; and Department of Geology invite applications for a tenure-track **ASSISTANT PROFESSOR** position (see [website: http://www.tulane.edu/~ecob/faculty-search/las-search.html](http://www.tulane.edu/~ecob/faculty-search/las-search.html)) to begin July 1, 2000. We seek applicants with broad, multidisciplinary training in environmental and/or conservation science who will develop interdisciplinary research and courses focusing on tropical environments in Latin America. Successful candidates must have completed their Ph.D. by the start date; would be expected to develop a vigorous, externally funded research program; and have a strong commitment to undergraduate and graduate teaching. Applicants should send a letter of application, statement of research and teaching interests, curriculum vitae, and contact information for three references to: **LAS Search, Department of Geology, Tulane University, New Orleans, Louisiana 70118**. Review of applications will begin January 31, 2000, and the search will remain open until the position is filled. *Tulane University is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity; women and minorities are encouraged to apply.*

MOLECULAR GENETICIST

The Department of Biology, College of Charleston, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin August 2000. Candidates must possess a Ph.D., a strong commitment to teaching, and an active research program with the potential for undergraduate involvement. We are particularly interested in candidates who use molecular approaches to examine genomic pattern and process. Teaching responsibilities may include general genetics and participation in introductory biology. The College of Charleston is a public liberal arts institution of 10,000 students. The College's primary goals are teaching and research excellence. In addition to its undergraduate programs, the department offers M.S. degrees in marine biology and environmental studies. Information about the Biology Department is available at [website: http://www.cofc.edu/~biology/](http://www.cofc.edu/~biology/). Applicants should submit a curriculum vitae, statement of teaching and research interests, copies of relevant publications, and three letters of reference by January 31, 2000, to: **Chair, Department of Biology, Molecular Geneticist Search Committee, College of Charleston, Charleston, SC 29424**. *The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

TENURE-TRACK OR TENURED FACULTY POSITION

The Division of Pulmonary and Critical Care Medicine, Northwestern University Medical School, Chicago, invites applications for a full-time tenure-track or tenured faculty position at the **ASSISTANT, ASSOCIATE, or PROFESSOR** level. Applicant should have a Ph.D. or M.D. or both degrees and preferably an independent NIH-funded research program. The division wishes to add to its strengths in lung injury biology, signaling, and receptor function. Expertise in gene transfer and transgenic/knockout technology as an integral component of the research program is desirable. The position comes with a competitive start-up package and research space. Salary will be commensurate with experience. Please send a complete curriculum vitae, a brief statement of research interest, and names of three references to: **Northwestern University Medical School, Division of Pulmonary and Critical Care Medicine, 300 East Superior, Tarry 14-707, Chicago, IL 60611**. In order to receive full consideration, applications must be received by January 31, 2000. Start date is from February 1, 2000. *Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are encouraged to apply.*

POSITIONS OPEN

TWO POSITIONS MOUNT HOLYOKE COLLEGE SOUTH HADLEY, MASSACHUSETTS

Biochemistry. Biochemist/Molecular Biologist for a one-year position (renewable for a second year) at the **ASSISTANT PROFESSOR** level. Responsibilities include teaching courses in biochemistry and molecular biology and conducting research in which undergraduates participate. Please send curriculum vitae, transcripts and statement of teaching and research interests, and arrange to have three letters of recommendation sent by January 28, 2000, to: **Dr. Peter Gruber, Biochemistry Program, Mount Holyoke College, South Hadley, MA 01075**. E-mail: pgruber@mholyoke.edu.

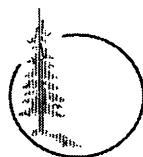
Developmental Biology. Developmental Biologist for a one-year position at the **ASSISTANT PROFESSOR** level. Responsibilities include participating in the animal half of a core introductory biology course (How Organisms Develop), teaching advanced courses in developmental biology or a comparable area of specialty, and conducting research in which undergraduates participate. Please send curriculum vitae, transcripts and statement of teaching and research interests, recent reprints, list of relevant courses taken, and arrange to have three letters of recommendation sent by January 15, 2000, to: **Dr. Frank DeToma, Department of Biological Sciences, Mount Holyoke College, South Hadley, MA 01075**. E-mail: biology@mholyoke.edu. *Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff, and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

PHYSIOLOGICAL ECOLOGIST (WILDLIFE)

The Division of Biological Sciences (DBS) at The University of Montana invites applications for a tenure-track position in physiological ecology at the **ASSISTANT/ASSOCIATE PROFESSOR** level to begin August 2000. The position involves responsibilities in the Wildlife Biology Program and DBS. The successful candidate is expected to develop a vigorous, externally funded research program in organismal-level physiological ecology pertaining to vertebrates and relevant to wildlife issues, teach courses in physiological ecology and related areas, mentor M.S. and Ph.D. students, serve on committees, and interact with conservation agencies and organizations. Requirements include a doctoral degree in animal physiological ecology, wildlife biology, or related field; a strong record of research achievement; formal courses in animal physiology; and teaching experience. Preference will be given to applicants whose research complements existing research programs within DBS ([website: http://biology.umt.edu](http://biology.umt.edu)) and the Wildlife Biology Program ([website: http://www.forestry.umt.edu/wildlife](http://www.forestry.umt.edu/wildlife)). Send curriculum vitae, statements of research and teaching goals, academic transcripts or other documentation of physiological training, and arrange to have three reference letters sent to: **Physiological Ecologist (Wildlife) Search Committee, DBS, The University of Montana, Missoula, MT 59812 U.S.A.** Telephone: 406-243-5122; FAX: 406-243-4184. A more complete position description is available on the DBS website. Review of applications begins 31 January 2000. *Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE POSITION UNIVERSITY OF TEXAS AT DALLAS

Postdoctoral Research Associate position open at the University of Texas at Dallas. Ph.D. in cell biology, biochemistry, or a related field. Experience in one or more of the following areas: mammalian cell culture, protein purification, lipid biochemistry, membrane traffic, protein toxins. Send a résumé, a statement of research experience, and three references to: **Dr. Rockford K. Draper, The University of Texas at Dallas, Department of Molecular and Cell Biology, FO31, P.O. Box 830688, Richardson, TX 75083-0688**. *UT Dallas is an Equal Opportunity/Affirmative Action Employer.*



Director Vaccine Development

Northwest Biotherapeutics is committed to developing cutting-edge, cell-based therapies against a range of cancers including prostate and brain.

The ideal candidate will have a Ph.D. in Immunology and/or Biochemistry with 7-10 years postgraduate research in cancer or related field. A minimum of 3-5 years experience managing successful process and product development teams and demonstrated experience with dendritic cells. Antigen presentation and processing, T-cell activation, and strong background in immunology and biochemistry highly preferred. Successful candidate will have participated on and directed multi-disciplinary project and program teams with demonstrated strong interpersonal skills and presentation experience.

You will have a wide range of responsibilities, including directing a research group focused on refining the Company's existing dendritic cell-based immunotherapy platform for treating cancer. You and your team will conduct research to improve dendritic cell antigen presentation, processing, T-cell activation and effectiveness and to transition the associated technology improvements into clinical trials.

If you are up to the challenge of truly making a difference, please submit a vitae and list of three references to: **Human Resources Department, Northwest Biotherapeutics, Inc. 2203 Airport Way South, Suite 200, Seattle WA 98134, mmcdonal@nwbio.com.** We offer a highly competitive salary, benefits, 401k plan and stock options.

PRESIDENT



TEXAS TECH UNIVERSITY

The Presidential Search Committee and the Chancellor of the Texas Tech University System seek nominations and applications for the position of President of TEXAS TECH UNIVERSITY. Texas Tech, founded in 1923, is one of the leading universities in Texas and is part of the Texas Tech University System. The other system institution is the Texas Tech University Health Sciences Center (including schools of medicine, nursing, pharmacy and allied health) with campuses in Lubbock, Midland/Odessa, El Paso and Amarillo. Texas Tech University is located in Lubbock, Texas, in a community of almost 200,000 people on the South Plains of Texas.

The Texas Tech campus in Lubbock (1,839 acres in size) has a student population of more than 24,000 - including over 20,000 undergraduate and 4,000 graduate students. The University is comprised of 10 colleges and schools, including agricultural sciences and natural resources, architecture, arts and sciences, business administration, education, engineering, human sciences, and law, as well as the graduate school and honors college.

Texas Tech University offers 119 undergraduate, 99 masters and 50 doctoral degrees. Texas Tech is a Research II institution under the Carnegie Foundation classifications in effect for 1999. Texas Tech's library system is a member of the Association of Research Libraries.

The President exercises broad authority and is responsible for all aspects of university administration. The President is responsible to the Chancellor of the Texas Tech University System and the Texas Tech University System Board of Regents.

Review of applications will begin immediately and will continue until an appointment is made. Texas Tech treats inquiries, nominations, and applications for this position and others in a confidential manner. Applicants should confirm in their letters that they wish their applications to be kept confidential. Nominations and applications should be sent to:

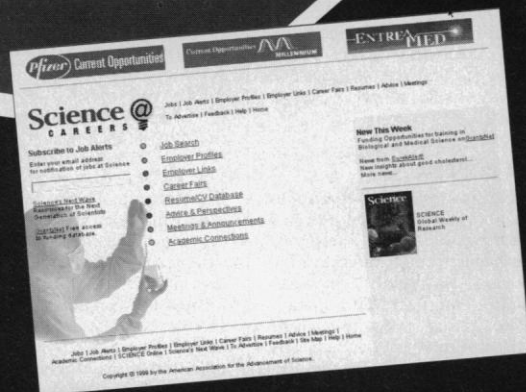
Dr. Nancy E. Jones
Chairman, Presidential Search Committee
Texas Tech University
P.O. Box 42013
Lubbock, Texas 79409-2013
(806) 742-0012

Texas Tech University is an Equal Opportunity Employer and encourages nominations and applications from minority and female applicants.

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POSITIONS OPEN

Shearwater Polymers, Inc. is the market leader in polyethylene glycol "PEG" technology. Shearwater's proprietary technologies include the development and commercialization of new PEG-based pharmaceuticals, as well as the manufacturing and supply of pharmaceutical-grade PEGs and PEG derivatives. We have an opening for the following position:

PROTEIN CHEMIST/BIOCHEMIST

The applicant must have a M.S. or Ph.D. in protein chemistry, biochemistry, bioengineering, or molecular biology and have an understanding of protein structure/function relationships, protein purification and assay techniques, synthetic polymers, and protein delivery systems. A minimum of five years of experience in either the pharmaceutical, biopharmaceutical industry, or postdoctoral is preferred. The ideal applicant will be responsible for the development of new technologies for protein and peptide modification, expression and purification of recombinant proteins from bacterial and mammalian systems, and the formulation of peptide and protein delivery systems. We are seeking an individual who has excellent verbal and written communication skills and who can work in a multidisciplinary team environment.

Shearwater Polymers, Inc. offers excellent opportunities for career growth in addition to a highly competitive salary and benefits package that includes health, dental, and life insurance; a 401(k) plan with match; and other benefits.

Applicants should send their résumé and salary requirements to: **Shearwater Polymers, Inc., Human Resources Department, 1112 Church Street, Huntsville, AL 35801. E-mail: bparker@swpolymers.com; FAX: 256-533-4805.**

BEAMLINE USER SUPPORT SCIENTIST

The Industrial Macromolecular Crystallography Association Collaborative Access Team (IMCA-CAT) seeks applicants for a User Support Scientist position at its facilities at the Advanced Photon Source, Argonne National Laboratory, Argonne, Illinois. Candidates should have a Master's or Ph.D. degree and must be experienced with Unix and with macromolecular crystallographic data collection. Synchrotron experience is desirable but not necessary. The successful candidate will have excellent communication skills and will be willing to work weekends and operate on-call at night. Responsibilities include training new users; advising and assisting experienced users; beamline system maintenance and modification; documentation, and providing support in IMCA-CAT's biochemistry laboratory. Salary range: \$37,000 to \$51,000 commensurate with experience. Submit letter of application together with a curriculum vitae and two references to: **Andrew J. Howard, Director, IMCA-CAT, Associate Professor of Biology, Illinois Institute of Technology, LS174, 3101 South Dearborn Street, Chicago, IL 60616. E-mail: ahoward@psyche.csrii.iit.edu.**

TECHNOLOGIST TRANSGENIC MOUSE FACILITY

Memorial Sloan-Kettering Cancer Center seeks applicants for a technologist position in the Transgenic Mouse Facility. The technologist's responsibilities include egg injection for the production of transgenic mice, ES cell injection into blastocysts for the generation of chimeric mice, and cryopreservation of embryos and sperm. Successful applicants will have a Bachelor's degree and three to five years of research experience in genetics, embryology, and/or molecular biology. Applicants with different levels and types of experience will be considered, but preference will be given to those applicants with experience in micromanipulation of mouse embryos. Salary will be commensurate with experience in transgenic mouse technology. Please submit curriculum vitae and two letters of recommendation by January 5, 2000, to: **Dr. Elizabeth Lacy, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 86, New York, NY 10021. FAX: 212-639-2861; e-mail: e-lacy@ski.mskcc.org. MSKCC is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN



MOLECULAR MEDICINE RESEARCH LABORATORY

Applications are invited for **SCIENTISTS** in the following domains: Molecular biology: Ph.D. (five years of research experience) with expertise in regulation of gene expressions. Microbiology: Ph.D. (five years of research experience) with expertise in downstream processing. Organic chemistry: Ph.D. (five years of research experience) with expertise in chiral synthesis. Applicants should submit a curriculum vitae, a brief statement of research interests, copies of recent publications, and two references to: **Dr. Shrikant Mishra, Molecular Medicine Research Laboratory, USV Limited, B.S.D. Marg, Govandi Station Road, Govandi, Mumbai 400 088 India. Telephone: 91-22-556-40-48-51; FAX: 91-22-551-56-08. Complete applications should be received before January 20, 2000. USV Limited is a research-led institution and is an Affirmative Action/Equal Opportunity Employer.**

The Wildlife Conservation Society at the Bronx Zoo seeks a **DIRECTOR OF THE AFRICA PROGRAM** to promote biological conservation by overseeing approximately 100 of the Society's field projects in 20 countries in Africa. Responsibilities include establishing program priorities, developing strategic approaches, and coordinating financial and administrative support to the field. Will promote biological conservation in Africa among national governmental organizations, international agencies, and other nongovernmental organizations; direct international attention to important sites for conservation; and influence policies that promote conservation. Must have a Ph.D. in a field related to conservation of biological diversity, a minimum of five years of experience in the management of conservation programs in Africa, and written/spoken fluency in English and French. Send curriculum vitae with letter of interest summarizing research and conservation experience and list of references to **e-mail: zrvera@wcs.org** or to: **The Wildlife Conservation Society, Human Resources Department, Box APB, 2300 Southern Boulevard, Bronx, NY 10460.**

RESEARCH ASSOCIATE: The Department of Pediatrics, Section of Neonatology, is urgently seeking a research-oriented faculty member at the postdoctoral level for a Research Associate position. The successful candidate will be involved in molecular biological research associated with the NIH program project, "Role of Milkborne Hormones in Sucking Rats." The major focus of these studies is on the nutritional role of milkborne growth factors (EGF, IGF-I, IGF-II) on the development of gastrointestinal tract and its functions. To apply, reference Job #995254, and submit curriculum vitae and two references to: **AHSC Human Resources, 1501 North Campbell Avenue #2233, Tucson, AZ 85724-5010. Review of application materials begins January 4, 2000, and continues until the position is filled. For more information, see website: <http://hr2.arizona.edu>. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.**

BIOLOGY POSITIONS

The University of Wisconsin Colleges, Department of Biological Sciences, has two full-time, tenure-track positions it is seeking to fill for the 2000-01 academic year. Information about the institution and individual campuses, detailed position descriptions, qualifications, application instructions, and application deadlines are posted at website: **<http://www.uwc.edu/Employment>**. For further information, contact: **The University of Wisconsin Colleges of Human Resources, Telephone: 608-262-2578. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

DIRECTOR, OFFICE OF TECHNOLOGY LICENSING: St. Jude Children's Research Hospital, located in Memphis, Tennessee, is an internationally recognized biomedical research center dedicated to finding cures for catastrophic diseases of childhood. We are currently seeking candidates for the position of Director, Office of Technology Licensing. This position offers the opportunity to serve as the primary institutional contact and resource for intellectual property and patent matters. These responsibilities include identification of patentable inventions, development of patenting strategies, management of patent prosecution, and transfer of institution technology to the private sector for commercial development through licensing and collaborations. The Director ensures institutional compliance with federal technology transfer policy and supervises operations of the Office of Technology Licensing.

Qualified candidates must have a Ph.D. (or comparable doctoral degree) in biomedical science and at least two years of prior experience in an academic institution, biotechnology company, or law firm. Prior experience in intellectual property management relating to biomedical research, especially patent prosecution, is required. Successful candidate will have demonstrated familiarity with biotechnology/pharmaceutical business development and patent strategies.

Salary is commensurate with qualifications and experience. St. Jude offers an exceptional fringe benefit package that includes four weeks of vacation per year, paid sick leave, low-cost medical insurance, and retirement program. Qualified candidates should submit a curriculum vitae to: **St. Jude Children's Research Hospital, Human Resources Department, 505 St. Jude Place, Memphis, TN 38105. FAX: 901-495-3123; e-mail: human.resources@stjude.org.**

BIOLOGIST LAFAYETTE COLLEGE

Tenure-track **ASSISTANT PROFESSOR** to begin in August 2000. We seek a broadly trained Biologist interested in applying cellular or biochemical analyses to integrative questions. Areas of specialization may include but are not limited to immunology, virology, avian biology, or plant-animal coevolution. Candidates must have a Ph.D. degree and postdoctoral training; preference will be given to candidates with established records of undergraduate teaching and research. Lafayette College is a highly selective undergraduate institution with a strong liberal arts and engineering tradition. Teaching load is two/two plus mentoring independent research and honors thesis students. Teaching duties will include a basic immunology course, a semester of general biology, plus two additional courses at the intermediate or advanced level to be designed by the applicant. Additional opportunities exist for teaching in the college-wide Common Course of Study. The successful applicant will be expected to maintain a productive research program involving undergraduates. Lafayette College offers competitive salary, benefits, and start-up funds. Expanded position description is available at website: **<http://www.lafayette.edu/biology/biohome.html>**. Applicants should submit curriculum vitae, undergraduate and graduate transcripts, a two-page description of teaching philosophy and research plans, and arrange for three letters of recommendation to be sent by February 1, 2000, to: **Dr. Shyamal K. Majumdar, Head, Department of Biology, Lafayette College, Easton, PA 18042-1778. Lafayette College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.**

There is a three-year *Equal Opportunity* position at the Carnegie Institution of Washington (Stanford, California) for a **RESEARCH ASSOCIATE** to help develop and exploit *Chlamydomonas* genomics. The position can be filled as early as December. Responsibilities include overseeing cDNA sequencing (performed by technical staff at the Stanford Center for DNA Sequence and Technology) and developing DNA microarrays to analyze gene expression under different environmental conditions and in different mutant strains. Send applications to: **Arthur Grossman; e-mail: arthur@andrew2.stanford.edu.**

nature biotechnology

Invites applications for the post of Editor of *Nature Biotechnology*

The publishers of *Nature*, *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Biotechnology*, *Nature Neuroscience* and *Nature Cell Biology*, are seeking a successor to Susan Hassler, who is leaving *Nature Biotechnology* after eight successful years with the journal. We are looking for a successor who will continue to develop *Nature Biotechnology* and build upon its reputation as the leading international journal of biotechnology research, news and business developments.

The Editor is responsible for the day-to-day and long-term editorial content of the title, working closely with an experienced team based in our New York office, and with colleagues in our London, Tokyo and other offices. Regular contact and communication with the international biotechnology community is central to the role, to ensure that the journal continues to meet the needs of its diverse and fast-growing readership. Planning and managing editorial resources, as part of the senior management team of the Nature group, is an integral part of this job.

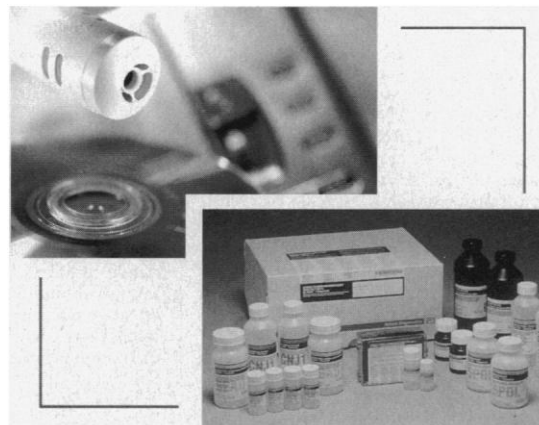
The ideal candidate will have a higher degree in a relevant field, excellent scientific judgement, a broad-based knowledge and understanding of the biotechnology research and business communities and strong leadership and management skills. Experience in the communication of science would be a distinct advantage.

Applications, including a curriculum vitae, a succinct (up to 1,000 words) assessment of the strengths and weaknesses of the *Nature Biotechnology*, and a concise cover letter explaining your interest in this job, should be sent to Dr. Adrian J. Ivinson, Publisher, Nature America Inc., 345 Park Avenue South, New York, NY 10010, email a.ivinson@natureny.com Fax 212.696.9752, **to arrive by Tuesday, January 4th, 2000.**



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RESEARCH MICROBIOLOGIST

In this postdoctoral position, the selected candidate will characterize the mechanisms of antibiotic resistance vs. beta-lactams, and the mode of action of beta-lactam agents using molecular/biochemical and microbiologic techniques. Position requires a Ph.D. in Microbiology/Biochemistry along with research experience in molecular mechanisms of antimicrobial resistance and/or mechanisms of action. Knowledge of antimicrobial susceptibility testing/characterization of antimicrobial agents/infectious diseases, and microbial epidemiology experience handling pathogenic bacteria and fungi are essential. 2 year commitment. Ad Code: 99-KDA3497

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Functioning under the general guidance of the Manager of Regulatory Toxicology and Safety Pharmacology, this professional will be involved with discovery programs evaluating lead compounds and development projects supporting clinical evaluation and registration of Abbott products. Additionally, you will serve as therapeutic area expert for toxicology evaluation to include defining development strategies, preparation of regulatory submissions and benchmarking and monitoring class-specific findings and safety concerns. Preferred areas of expertise are CNS pharmacology or cancer drug development. To qualify, candidates must possess a Ph.D. in Toxicology or related field and 7+ years industrial experience in pharmaceutical toxicology. Expertise in global, toxicology-related regulatory requirements and guidelines required. Must be highly experienced in the design, conduct and interpretation of toxicology studies; risk assessment; preparation of regulatory submissions; and regulatory agency interactions. Demonstrated ability to understand, acquire and apply evolving technologies in the field of toxicology a must. Proficient communication, creative problem solving and effective project management skills essential. Ad Code: 99-WKB2229

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POSITIONS OPEN

NATIONAL SCIENCE FOUNDATION

NSF Division of Biological Infrastructure (DBI), the Division of Environmental Biology (DEB), the Division of Integrative Biology and Neuroscience (IBN), and the Division of Molecular and Cellular Biosciences (MCB) seek qualified applicants to serve as **PROGRAM DIRECTORS** under the provision of NSF's rotational program in the areas listed below.

Responsibilities include research proposal evaluation, budget development, and scientific planning. Broad knowledge and specific research accomplishment are key qualifications. Positions will be filled on a one- or two-year rotational/temporary basis beginning late summer/early fall 2000. The current salary range is \$68,570 to \$106,868; qualification requirements are a Ph.D. or equivalent experience plus six or more years of independent research experience beyond the Ph.D.

For general information about NSF programs in the biological sciences, consult the NSF website: <http://www.nsf.gov>. For information re DBI programs, call: **Dr. Machi F. Dilworth, Telephone: 703-306-1470**; re DEB programs, call: **Dr. Joann Roskoski, Telephone: 703-306-1480**; re IBN programs, call: **Dr. Grace Wyngaard, Telephone: 703-306-1420**; or re MCB programs, call: **Dr. Maryanna Henkart, Telephone: 703-306-1440**.

Applicants must submit a résumé or other application format of choice. Applications must specify the job title for which you are applying and should include the following information: country of citizenship; information about education, including major and type and year of degree(s); complete information about experiences related to this job, including job titles, duties and accomplishments, employer's name and telephone number, starting and ending dates and year; and salary to: **National Science Foundation, Staffing and Classification Branch, Suite 315, 4201 Wilson Boulevard, Arlington, VA 22230, Attention: Sybil Smith**.

Hearing-impaired individuals should call **Telephone: 703-306-0189**. NSF is an Equal Opportunity Employer.

ASSISTANT CURATOR MISSOURI BOTANICAL GARDEN

The Missouri Botanical Garden operates the world's most active research program in tropical botany and is a leader in international scientific collaboration. We seek an Assistant Curator to coordinate plant-collecting programs in Gabon and Zambia to supply plant samples for pharmaceutical study, conduct plant systematics research, prepare systematic treatments/revisions, and manage database information. Must be available to travel for extended periods and attract additional financial support. Qualifications include a Ph.D. in botany or related field and up to seven years of specialized experience in botanical systematics and related activities. Also requires familiarity with herbarium routines, botanical literature, and exceptional written communication skills. Spoken French ability desired. We offer an outstanding benefits package. To apply, send curriculum vitae to: **Missouri Botanical Garden, HRM, Attention: ACGZ, P.O. Box 299, St. Louis, MO 63166-0299. E-mail: rland@admin.mobot.org; FAX: 314-577-9597; website: www.mobot.org**. Review of résumés begins immediately. Position is open until filled. *Equal Opportunity Employer*.

RESEARCH ASSOCIATE position available immediately to work on novel methodologies for labeling proteins and peptides with radioiodine nuclides and the "particle emitter Astatine-211. The goal of this project is to develop targeted radiotherapeutics for the treatment of brain tumors and other malignancies. Familiarity with either radiohalogenation chemistry or peptide/protein modification would be desirable. Level of appointment (postdoctoral or research faculty) dependent on experience. If interested, please contact: **Professor Michael Zalutsky, Department of Radiology, Box 3808, Durham, NC 27710 U.S.A. Telephone: 919-684-7708; e-mail: zalut001@mc.duke.edu**.

POSITIONS OPEN

NEXTRAN

AN AFFILIATE OF BAXTER HEALTHCARE CORPORATION

SCIENTISTS

NEXTRAN, an affiliate of Baxter Healthcare and an established leader in xenotransplantation research, has two Ph.D. positions available at our Princeton, New Jersey, location.

IMMUNOLOGIST: We are looking for an innovative Immunologist (Ph.D. with postdoctoral experience preferred) interested in investigating the unique immunological challenges that are presented by xenotransplantation. The successful candidate will join an active team that supports our preclinical transplantation program and is focused on research to control the immune response induced during pig-to-primate xenografts. Candidates with general expertise in B-cell activation or with experience in primate immunology are preferred, but all candidates will be considered. Responsibilities will be commensurate with experience.

VIROLOGIST: Extensive experience working with retroviruses (Ph.D. plus postdoctoral experience preferred), with proficiency in basic molecular biology and tissue culture techniques are required for this position. Incumbent will join an established group that is characterizing porcine endogenous retroviruses at the molecular and functional level.

NEXTRAN offers an excellent working environment along with competitive compensation and benefits. Please submit your curriculum vitae indicating the position you are applying for and your salary requirements to:

**The Human Resources Manager
NEXTRAN
303B College Road East
Princeton, NJ 08540**

PSYCHIATRY/PHARMACOLOGY ASSOCIATE PROFESSOR OR PROFESSOR-LEVEL NEUROSCIENTIST

The Departments of Psychiatry and Pharmacology and the Lieber Center for Studies in Schizophrenia at Columbia University, College of Physicians and Surgeons, and New York State Psychiatric Institute seek a neuroscientist for a joint appointment in psychiatry and pharmacology at the Associate Professor or Professor level (tenure or tenure track). The eligible candidate should be a Ph.D., M.D., or M.D.-Ph.D. involved in basic neuroscience work relevant to schizophrenia (pharmacology, molecular biology, or systems neuroscience). A strong record of publications and success in obtaining funding are essential. We are especially interested in faculty who will foster translational research to link basic and clinical research in the Lieber Center for Studies in Schizophrenia. Applicants should submit a letter describing research interests and plans, a curriculum vitae, and three references to: **Marc Laruelle, M.D., Psychiatry/Neuroscience, Columbia University, 1051 Riverside Drive, NYSP Unit 42, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer**.

RESEARCH SCIENTISTS: Advanced Viral Research Corporation (ADVR), a leader in the development of peptide nucleic acids, is seeking scientific personnel with expertise in virology, immunology, and/or molecular biology to staff its expanding research laboratories in Westchester County, New York. **SENIOR SCIENTIST** candidates should have a Ph.D. and some postdoctoral experience. **ASSOCIATE SCIENTIST** candidates should have B.S./M.S. degrees with at least one year of laboratory research experience. We offer competitive compensation and benefits packages. Please submit curriculum vitae to: **Human Resources Department, Advanced Viral Research Corporation, 200 Corporate Boulevard South, Yonkers, NY 10701; FAX: 914-376-7368. ADVR is an Equal Opportunity Employer**.

POSITIONS OPEN

ENVIRONMENTAL MODELER THE INSTITUTE OF ENVIRONMENTAL AND HUMAN HEALTH Position Available

A tenure-track Environmental Modeler position is available at all ranks at The Institute of Environmental and Human Health (TIEHH) at Texas Tech University and Texas Tech University Health Sciences Center. Candidates must have either a Ph.D. or M.D. degree, a minimum of three years of postdoctoral experience, strong quantitative skills in both basic and applied research, and an ability to participate in multidisciplinary research teams. The person employed will be expected to develop an independent research program in environmental modeling using high-performance computing and visualization. The Texas Tech High Performance Computing Center is located at TIEHH and houses a 56-processor-based SGI Origin2000™ high-performance computer interfaced with a 40-seat, auditorium-style virtual reality center for use in data modeling and visualization. TIEHH is a multidisciplinary research and education institute with a home page at [website: www.tiehh.ttu.edu](http://www.tiehh.ttu.edu) that has recently established a National Center for Countermeasures to Chemical and Biological Threats. The candidate is expected to be an active member of this center. This position (#2001TLF034) is available immediately, and the search will continue until an applicant has been selected. Applicants should submit a letter of interest, curriculum vitae, and a minimum of three letters of reference to: **Louis A. Chiodo, Ph.D., Chairman, Search Committee, The Institute of Environmental and Human Health, Box 41163, Lubbock, TX 79409-1163. Texas Tech University is an Affirmative Action/Equal Employment Opportunity Employer that encourages applications from women and minorities**.

MOLECULAR BIOLOGY/IMMUNOLOGY GROUP LEADER AIDS Vaccines

The successful candidate will be working in a team dedicated to development and clinical testing of candidate AIDS vaccines. The individual's primary responsibilities will involve: (1) collecting epidemiologically significant viruses from international cohorts, (2) cloning and expressing recombinant HIV antigens for use as vaccines, (3) developing vaccine strategies to stimulate humoral and cellular immune responses, and (4) implementing comparative immunogenicity studies to identify promising vaccine candidates for advancement into human clinical trials. A high level of expertise in HIV biology is required as well as an outstanding record of accomplishment in molecular biology, immunology, virology, or protein chemistry. Excellent management, communication, and team-building skills are required. The position requires a Ph.D. and at least six years of relevant HIV experience. Send résumés to:

**VaxGen
Human Resources
1000 Marina Boulevard, Suite 200
Brisbane, CA 94005-1841
Attention Job Code BIOS-pwb
E-mail: jobs@vaxgen.com
FAX: 650-624-1084**

DIRECTOR, NORTHWEST TREE IMPROVEMENT COOPERATIVE

Director of a large cooperative tree-breeding program. Available April 1, 2000. Ph.D. in forest genetics or related discipline with five years of experience in applied tree improvement. Professional faculty (non-teaching), fixed-term position. Application closing date January 17, 2000. Send résumé, three letters of recommendation, and transcripts to: **Sandra C. Lewis, Office Manager, Department of Forest Science, Oregon State University, 321 Richardson Hall, Corvallis, OR 97331-9501**. For more information, see [website: http://www.cof.orst.edu/cof/fs/test/index.htm](http://www.cof.orst.edu/cof/fs/test/index.htm). OSU is an Equal Employment Opportunity/Affirmative Action Employer and is responsive to dual-career needs.

LIFE TECHNOLOGIES™

Life Technologies, Inc. is the worldwide leader in the manufacturing of cell culture products. We have been honored as one of the "Top 100 Companies to Work For" by *Working Mother* magazine as well as *Fortune* magazine. We have the following immediate opportunities available at our Grand Island facility:

R&D Scientists R&D Post-Doctoral Associate

Candidates should possess BS, MS or Ph.D degree in life sciences plus academic and/or industrial experience in one or more of the following: cell culture, cell biology, molecular biology, protein chemistry, biochemistry, biochemical engineering, microbiology or virology. Experience in biotechnological manufacturing is helpful. Specific knowledge of metabolic modeling, carbohydrate chemistry, lipid chemistry, bioprocessing, protein purification or vaccine design is desirable. Positions include assignments in biological and cell culture product/process development to include: planning and execution of laboratory experiments, generation of product applications, scientific presentations, customer interactions and preparation of technical reports and documentation. For Post-Doctoral position, neuroscience experience is required.

LTI offers a competitive salary and flexible benefits program which includes a company-matched 401(k). Mail or fax resumes to:

Life Technologies, Inc.
Attn: Human Resources
PO Box 68
Grand Island NY 14072
(716) 774-6756 - FAX
No Phone Calls Please.

EOE M/F/H/V

LTI supports a drug-free workplace



The University of Michigan Chair, Department of Cell and Developmental Biology and Director, Center for Organogenesis

The University of Michigan is seeking an outstanding senior investigator in the area of cell and developmental biology and/or developmental genetics to chair a newly restructured department of Cell and Developmental Biology, and to direct an active, intercollegiate center, the Center for Organogenesis. Individuals should have an established, internationally recognized research program, leadership abilities and a creative vision regarding the clinical, applied and basic science research potential in the fields of cell biology, developmental biology and organogenesis. An outstanding recruitment package has been assembled, reflecting broad-based excitement and support for this position throughout the University of Michigan. In conjunction with a major institutional commitment to the life sciences, the package includes exceptional opportunities for junior faculty recruitment. Direct inquiries to **Chair, Search Committee: Dr. Thomas D. Gelehrter, Professor and Chair, Department of Human Genetics, c/o Polly A. Romantini, University of Michigan Medical School, 1150 West Medical Center Drive, Medical Science Building 1, Suite 4101, Ann Arbor, Michigan 48109-0624 (pollyr@umich.edu)**. Website for the Center for Organogenesis: <http://www.med.umich.edu/medschool/organo>.

The University of Michigan is an affirmative action equal opportunity employer and actively seeks diversity in its applicant pool.



Animal and Plant Health Inspection Service Plant Protection and Quarantine

**Protecting the health of U.S. plant and animal resources
and facilitating their movement in the global
marketplace**

SCIENCE AND TECHNOLOGY

Consider a position in the Senior Executive Service as Director, Center for Plant Health Science and Technology, Plant Protection and Quarantine (PPQ) with the United States Department of Agriculture, Animal and Plant Health Inspection Service (APHIS). Duty location is Raleigh, NC.

This critical, executive level position manages the overall planning, coordination and direction of development and transfer of technology used in APHIS's safeguarding operations and is accountable for the relevancy and quality of Plant Protection and Quarantine's scientific program.

The mission of PPQ is to safeguard America's plant and animal agricultural resources and natural ecosystems from the harmful effects of invasive species.

Vacancy announcements and application procedures at

WWW.USAJOBS.OPM.GOV

APHIS offers a competitive scientific environment, excellent benefits, and opportunity for advancement.

USDA-APHIS-PPQ is an equal opportunity employer.

Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 2000 in its training program, now in its 25th year, for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology, and research that interfaces with clinical and physical sciences. Training is available in DNA repair, replication, and mutagenesis; regulation of cellular proliferation and differentiation including growth factors, signal transduction pathways, and intercellular communication; molecular immunology; molecular genetics and epidemiology of cancer; and human disease models and gene therapy. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

Preceptors are: **Steven Bachenheimer, Albert Baldwin, Victoria Bautch, David Brenner, Keith Burrige, Sharon Campbell, Stephen Chaney, David Clemmons, Edward Collins, Marila Cordeiro-Stone, Channing Der, Robert Duronio, H. Shelton Earp, Beverly Errede, Jeffrey Frelinger, Frank French, Jack Griffith, Eng-Shang Huang, Clyde Hutchison III, Kenneth Jacobson, Rudolph Juliano, David Kaufman, William Kaufmann, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Patricia Maness, William Marzluff, Beverly Mitchell, Joseph Pagano, Tom Petes, Mark Peifer, Nancy Raab-Traub, James Raleigh, Dale Ramsdeo, R. Jude Samulski, Aziz Sancar, Ronald Swanson, Lishan Su, Holden Thorp, Jenny Ting, Ronald Thurman, Michael Topal, Terry Van Dyke, Jean-Michel Vos, Kevin Weeks, Bernard Weissman, Elizabeth Wilson, and Yue Xiong.**

Candidates must be U.S. citizens or permanent residents. For an informational brochure or to apply (include curriculum vitae, three letters of recommendation, a statement of research interests, and graduate school records) write to:

**Joseph S. Pagano, M.D.
CB# 7295**

**UNC Lineberger Comprehensive Cancer Center
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7295**

UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged to identify themselves voluntarily.

POSITIONS OPEN

RESEARCH ASSOCIATE YERKES REGIONAL PRIMATE RESEARCH CENTER Emory University

Ph.D.-level scientist to staff and operate a developing gene chip facility at Emory University. Responsibilities will include maintenance and construction of cDNA libraries, production of low- and high-density microarrays, and data analysis including bioinformatics. A minimum of two years of experience in molecular biology or related fields is desirable. Must be able to work well in a team environment. Salary is \$28,000 to \$30,000 with potential for growth. Please send curriculum vitae, description of research interests and goals, and three references to: **Dr. Scott Hemby, Yerkes Regional Primate Research Center, 954 Gatewood Road, N.E., Atlanta, GA 30329. E-mail: shemby@pharm.emory.edu. Affirmative Action/Equal Opportunity Employer.**

VIROLOGIST TENURE-TRACK/TENURED POSITIONS

Center for Biologics Evaluation and Research, FDA, seeks an individual with Ph.D. and/or M.D., minimum several years of postdoctoral experience, and record of scientific productivity for tenure-track/tenured position in the Division of Cellular and Gene Therapies. Expertise and research relevant to viral pathogenesis, in particular expertise in adenovirus (e.g., virology, molecular biology, and/or immune response to viral infection) preferred. Candidate will establish an independent research program. The candidate will also participate in formulation of FDA policy and review of product applications in the areas of cellular and gene therapies. New laboratory facilities and state-of-the-art animal quarters with excellent veterinary support located on the NIH campus in Bethesda, Maryland. Investigators will be supported with intramural funding. Send curriculum vitae, names of three to five references, and statement of research to: **DCGT Search, 1401 Rockville Pike, HFM-527, Rockville, MD 20852. E-mail: wilsonc@cber.fda.gov. U.S. citizens or permanent residents only.**

MOLECULAR BIOLOGY/VIROLOGY/ PROTEOMICS/BIOINFORMATICS

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS at the Jefferson Center for Biomedical Research. The Jefferson Center is a unique research facility specializing in hepatitis and herpes molecular biology, antivirals, vaccines, glyco-biology, and proteomics. It is a division of Thomas Jefferson University College of Medicine but is located in a new, 28,000-square-foot building in suburban Philadelphia on the beautiful campus of Delaware Valley College. Scientists work closely together in a team-oriented environment emphasizing innovative academic/translational research. Send curriculum vitae and names of three references to: **Timothy M. Block, Ph.D., Director, Jefferson Center, Suite 238, 700 East Butler Avenue, Doylestown, PA 18901. FAX: 215-489-4920. Equal Opportunity Employer.**

ASSOCIATE DIRECTOR OF PHARMACOLOGY

The Cancer Therapy and Research Center, located in San Antonio, Texas, seeks Associate Director of Pharmacology. Candidate will direct the preclinical pharmacology laboratory and possess a Doctorate in pharmaceutical sciences. Requires five years of experience using analysis and evaluation techniques. Prefer experience in GLP and mass spectrometry. Qualified candidates respond by mail to: **CTRC, 8122 Data-point Drive, Suite 250, San Antonio, TX 79229. FAX to: 210-616-5801. Visit our website: www.ctrc.saci.org. Equal Opportunity Employer/Affirmative Action.**

POSITIONS OPEN

RESEARCH SCIENTIST

Ferring is an international pharmaceutical company specializing in products for the treatment of hormone-related disorders (**website: www.ferring.com**). Ferring is continuing to discover and develop new drugs and is dedicated to an innovative workplace. The biology department at the San Diego Division of Ferring has an immediate opening for a self-motivated Research Scientist to join a multidisciplinary discovery team.

The successful candidate will be responsible for the development, validation, and implementation of screening assays and new technologies to support drug discovery programs. Qualified candidates will also participate in team efforts to identify and validate novel, therapeutically relevant targets. Two or more years of relevant and proven experience of *in vitro* cell-based biochemical assays (e.g., receptor-ligand interactions, enzyme assays, immunoassays, signal transduction, and cell proliferation) are required. Experience in autoradiography, HPLC, and protein expression would be an advantage.

An individual with a Ph.D. and prior experience in the biotechnology or pharmaceutical industry is preferable. Important qualities include the desire and ability to interact with other ongoing projects within and across the departments and excellent data management/reporting and communication skills.

Ferring Research Institute Inc. offers competitive compensation and benefits packages. Qualified applicants are encouraged to apply in writing. Send or FAX a cover letter, résumé/curriculum vitae, salary history, and the names of three references to: **Ferring Research Institute Inc., 3550 General Atomics Court, 2-422, San Diego, California 92121 FAX: 858-455-3190.**

NEUROBIOLOGY RESEARCH-TRACK AND POSTDOCTORAL POSITIONS

Available immediately for: (1) an integrative and/or cellular neurophysiologist to study synaptic integration and sensory processing in mammalian olfactory bulb and piriform cortex. Experience in optical imaging of voltage-sensitive dyes and/or patch clamping in slices required; (2) a neuroanatomist with expertise in *in situ* hybridization (immunocytochemistry/tract tracing skills desirable) to investigate neural circuits underlying taste analgesia. Applicants must have a Ph.D. or M.D. Competitive salary/fringe benefits. Opportunity to interact with neuroscientists in the department (**website: http://neurobiology.umaryland.edu**) and the Neuroscience Program (**website: http://neuroscience.umaryland.edu/**). Send curriculum vitae and names of three references to: **Dr. M. Ennis, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201. E-mail: mennis@umaryland.edu. University of Maryland is an Affirmative Action/Equal Employment Opportunity/Americans with Disabilities Act Employer.**

WRIGHT STATE UNIVERSITY SCHOOL OF MEDICINE

The Department of Pharmacology and Toxicology invites applications for two faculty positions at the **ASSOCIATE** or **FULL PROFESSOR** level. All applicants must have a Ph.D., M.D., or D.V.M. with an established research program supported by extramural funding. Full Professor candidates should have administrative experience. Departmental research focuses on neural and cardiovascular sciences and mechanistic toxicology with emphasis on molecular genetic approaches. Competitive salary and start-up packages are available. Review of applications will begin on January 17, 2000, and continue until the positions are filled. Send curriculum vitae, a description of research interests, and the names and addresses of three references to: **Mariana Morris, Ph.D., Department of Pharmacology and Toxicology, Wright State University School of Medicine, P.O. Box 927, Dayton, OH 45401-0927. WSU is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

ScienceMedia.com: SENIOR SCIENTIST

Start-up company led by scientists and senior executives from the molecular modeling and educational publishing industries. Developing interactive courseware that employs rigorous scientific models and cutting-edge technology.

Seeking a Ph.D. in biochemistry, biology, or computational chemistry with strong computer skills to join the company's core scientific team and work with authors and technical staff to develop science courseware. The candidate selected will be an active participant in ScienceMedia.com's research efforts, including submission of research grants as a principal investigator and working with senior management to obtain and execute corporate partnerships and contracts. Expertise with multimedia/Web technologies and/or college teaching experience a plus.

Competitive salary, benefits, and opportunity for significant equity participation. Interested individuals submit curriculum vitae to: **ScienceMedia.com, 6540 Lusk Boulevard C148, San Diego, CA 92121, Attention: Human Resources. Electronic submissions to e-mail: hr@sciencemedia.com; website: http://www.sciencemedia.com.**

RESEARCH SCIENTIST POSITIONS PROGRAM IN MACULAR DEGENERATION RESEARCH The Cleveland Clinic Foundation

Full-time research positions at levels equivalent to **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** are available in ophthalmic research in the new Cole Eye Institute. Basic investigators or research clinicians with training in molecular biology, cell biology, biochemistry, developmental biology, electrophysiology, or human genetics with research interests that relate to the clinical areas of macular degeneration and inherited retinal diseases will be seriously considered. New laboratory space, generous start-up funds, outstanding salary support, and benefit packages are available. Applicants for positions at the Associate level and above must have a record of independent funding. Interested applicants should submit a statement of their research plans related to the focus of the above-described program, a copy of their curriculum vitae, and contact information for three references to:

**Joe G. Hollyfield, Ph.D.
Director of Ophthalmic Research
Cole Eye Institute (FFB)
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195-5245
FAX: 216-445-3670
E-mail: hollyfj@ccf.org**

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POSTDOCTORAL POSITION available now in the Departments of Ophthalmology and Molecular Genetics. We are studying: (1) the molecular mechanisms of transcription factors implicated in eye development; (2) genetic and biochemical interactions between those genes and factors; (3) identification of Pax-6 target genes and genes associated with glaucoma using cDNA microarrays using our state-of-the-art core facility. Base stipend is \$26,256 to \$41,268 per annum. Relevant experience preferred. For further information, see **website: www.sequence.aecom.yu.edu/molgen/faculty.html**. Please send or FAX a curriculum vitae, statement of interest, and at least two names of references to: **Dr. A. Cvekl, Ophthalmology and Molecular Genetics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 909 Ullmann, 1300 Morris Park Avenue, Bronx, NY 10461. E-mail: cvekl@aecom.yu.edu; FAX: 718-430-8778. Equal Opportunity Employer.**

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We are currently seeking a highly-motivated and dynamic individual to locate first-rate scientific papers for publication in the multi-disciplinary research journal *Proceedings of the National Academy of Sciences (PNAS)*. We require a Master's degree (Ph.D. preferred) in a relevant scientific discipline (i.e., physical sciences, social sciences, and mathematics) and superior written and verbal communication skills. Editorial experience desired. In addition, you will work with Academy members to develop a network of scientific contacts at major research institutions and recruit future papers at scientific conferences. Some travel required.

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CORNELL UNIVERSITY

Dean of the New York State College of Agriculture and Life Sciences

Cornell University is seeking applications or nominations for Dean of the New York State College of Agriculture and Life Sciences at Cornell University.

We seek a dean with outstanding leadership qualities who is a distinguished scholar and has proven administrative ability. The candidate should be visionary in terms of the future directions and needs of the agricultural, life, environmental, and social sciences that make up the focus of the College. The breadth and scope of the programs and departments of the College are among the strongest of Land Grant institutions. Cornell is well positioned in the discovery of new knowledge as well as in the implementation of such knowledge to solve pressing societal needs. The dean serves as the principal spokesperson to the college's internal and external audiences. The dean must be able to provide academic and administrative leadership to the college's faculty, students, and staff and must be effective in fostering both basic and mission-oriented endeavors. We desire a dean who has a commitment to enhancing human diversity. The dean must also engage and partner effectively with alumni, agricultural, environmental, and consumer-interest organizations, the State University of New York, state and national governmental agencies, and international agencies and programs. The dean must recognize the importance of the economic viability and sustainability of agriculture and communities in New York State.

The College of Agriculture and Life Sciences enrolls 3,100 undergraduates and 1,025 graduate students in a broad range of programs centered in 30 departments at its campus in Ithaca. The College has 332 faculty and a total of 1,460 staff. The College budget is nearly \$174,053,000 including grants and contracts. The College is responsible for a broad range of undergraduate and graduate programs, the New York Agricultural Experiment Station in Geneva, New York, and has shared responsibility for Cooperative Extension programs throughout New York State.

We are particularly interested in having nominations and applications from women and members of other groups historically underrepresented on college faculties. Nominations, applications, and inquiries should be directed to:

Provost Don M. Randel, Chair
Search Committee for Dean of the College of Agriculture and Life Sciences
433 Day Hall
Cornell University
Ithaca, NY 14853-2801
(607) 255-3062 FAX: (607) 255-2990

All applications and inquiries will be treated in a strictly confidential manner and should arrive in Ithaca by January 31, 2000.

Postdoctoral Opportunities at Tularik

Located in the San Francisco Bay Area, Tularik Inc. is a biopharmaceutical company dedicated to the discovery and development of novel therapeutic agents that act through the regulation of gene expression. The continued growth of our research organization has created an excellent opportunity for a select group of recent Ph.D. level professionals to make significant contributions to our R&D programs.

Postdoctoral Fellow - Orphan Nuclear Receptor Program

You will identify natural orphan receptor ligands, use in-house genechip technology to identify target genes, characterize the phenotype of knockout mice, and use various technologies to elucidate ONR signaling pathways. A solid understanding of molecular biology and biochemistry is essential. (Job Code: JL-SCI)

Postdoctoral Fellow - Hypercholesterolemia Program

You will conduct research to help discover novel drug targets for the treatment of hypercholesterolemia. Candidates must possess a strong desire to identify the next generation of lipid-lowering therapeutics and a solid understanding of molecular biology and biochemistry. (Job Code: JS-SCI)

Research Associate - Protein Crystallography

You will be responsible for obtaining single protein crystals and protein/ligand complexes, collecting/processing X-ray diffraction data, and elucidating structures utilizing modern X-ray crystallographic and computational methods. Your research will form the basis for structure-based drug design efforts in various cutting-edge research projects. Candidates must possess an MS/recent Ph.D. in chemistry, biochemistry or related field and 2+ years of experience with protein crystallography. (Job Code: ZW-SCI)

These projects provide exciting opportunities for outstanding professionals to carry out leading-edge research and creative drug discovery. Tularik offers experienced leadership, employee stock options, a competitive salary and benefits package, and a collaborative and stimulating research environment that recognizes achievement. If you are interested in joining our research team, please submit your resume to:

Tularik, Inc.
Human Resources
Attn: (Job Code: _____)
Two Corporate Drive
South San Francisco, CA 94080
Fax: (650) 825-7554
E-mail: resume@tularik.com



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POSITIONS OPEN

PATHOLOGIST or MOLECULAR/CELLULAR BIOLOGIST: The Pathology Division seeks M.D., M.D./Ph.D., or Ph.D. applicants for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The individual will be expected to develop independent and collaborative research in conjunction with an interdisciplinary Cardiovascular and Renal Research Focus Group. Broad knowledge and experience in molecular methods is required. Expertise in viral gene delivery methodologies is highly desirable. Opportunities exist for a qualified M.D. candidate to participate in nephropathology and autopsy services. Please send curriculum vitae; statement of research interests; and names, addresses, telephone numbers, and e-mail addresses of three references to:

William F. Glass II, M.D., Ph.D.
Chair, Department of Pathology and Anatomy
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, VA 23501

Eastern Virginia Medical School is an Affirmative Action/Equal Opportunity Employer.

STRUCTURAL BIOLOGIST/GENETICIST at Finch UHS/Chicago Medical School. **ASSISTANT or ASSOCIATE PROFESSOR** position in biochemistry and molecular biology is available for an individual with interest in structural genomics, bioinformatics, proteomics, molecular genetics, or macromolecular structure/function. The ability to teach genetics would be an advantage. The excellent research environment and modern facilities of the school are located in a pleasant North Shore suburb 35 miles north of the Loop. Send letter, curriculum vitae, names of three references, description of research, and statement of current funding to: **Dr. K. E. Neet, Chair, Department of Biochemistry and Molecular Biology, FUHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. Website: www.finchcms.edu/biochem/Biochem.html. An Equal Opportunity/Affirmative Action Employer.**

SCIENTIFIC ADMINISTRATOR/WRITER

Outstanding opportunity for a highly organized, personable and articulate individual with excellent writing skills to provide support to a basic research department faculty, including assisting in the drafting of grant applications and manuscripts; organizing scientific review sessions, conferences, and lectures; and administering pre- and postdoctoral trainee activities. A Ph.D. or equivalent in the biomedical sciences is required, along with strong knowledge of current biochemical and molecular biological techniques, as well as experience with graphics and gene database software. Applicants should submit a curriculum vitae and examples of their scientific or lay writing to: **Mr. Dale McMahan, Department of Cell Biology-NC10, Lerner Research Institute, Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: mcmahad@ccf.org.**

POSTDOCTORAL POSITION is available immediately to study active ingredients of botanical supplements. Qualifications: Ph.D. in life sciences with experience in: redox stress, transcriptional overexpression and signaling, and altered estrogen receptor function. Strong background in molecular biology required. Send résumé and names of three references by January 31, 2000, to: **Dr. A. Constantinou, Department of Surgical Oncology (M/C 820), University of Illinois at Chicago, 840 South Wood Street, Chicago, IL 60612. E-mail: Andreasc@uic.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

RESEARCH SPECIALIST (50 percent FTE): Available immediately for biology graduates (M.S. preferred) with work experience in contemporary cellular and molecular immunology. Send curriculum vitae with names of three references to: **Dr. R. Krishnaraj, Department of Medicine (M/C 787), University of Illinois at Chicago, 840 South Wood Street, Chicago, IL 60612. Telephone: 312-996-6083; e-mail: RKKRISHNA@UIC.edu.**

POSITIONS OPEN

The Department of Botany-Microbiology at Ohio Wesleyan University seeks Plant Biologists for two tenure-track positions to begin in August of 2000. Candidates for each position must have a Ph.D. in an appropriate field, a demonstrated commitment to undergraduate teaching, and a research program amenable to involvement of undergraduate students. Both positions will involve teaching an introductory botany course, as well as two upper-level specialty courses in alternate years. (1) **PLANT PHYSIOLOGIST:** Upper-level teaching includes plant physiology and mycology, as well as laboratories in molecular genetics and biotechnology. Individuals with expertise in molecular aspects of plant physiology, plant-microbe interactions, or genetic regulation of plant development are particularly encouraged to apply. (2) **PLANT ECOLOGIST:** Teaching includes a core course in ecology for environmental studies and two upper-level courses in plant ecology. The latter currently include plant community ecology and limnology/paleoecology, but forest dynamics or restoration ecology are also possibilities. Complete applications will include a curriculum vitae, statement of teaching and research interests, reprints of selected publications, official college transcripts, and three letters of recommendation received by January 20, 2000. Applications for these positions should be sent to: **Dr. J. Goldstein (Plant Physiologist Search) or Dr. D. M. Johnson (Plant Ecologist Search), Department of Botany/Microbiology, Ohio Wesleyan University, Delaware, OH 43015.** Further information about the position, the department, and the university can be found at our website: <http://www.owu.edu/~zooweb/bm.htm>. *Ohio Wesleyan is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

POSTDOCTORAL 1999-67

Corixa Corporation is a leading-edge biotechnology company based in Seattle, Washington, dedicated to the discovery of vaccines for the treatment of cancer and infectious diseases. We currently have a Postdoctoral opening available at our Hamilton, Montana, location for a person to conduct synthesis of various glycolipids and glycopeptides in support of the company's SBIR Phase II efforts on synthetic vaccine models and AGP process development. Successful candidates need a Ph.D. in organic chemistry, strong theoretical background, and relevant laboratory experience in modern synthetic organic chemistry. Desire experience in carbohydrate chemistry, especially glycolipid/glycopeptide synthesis and purification. Corixa offers an attractive compensation and benefits package and a progressive work environment. Please apply by January 17, 2000, to: **Corixa Corporation, Attention: 1999-67, 553 Old Corvallis Road, Hamilton, MT 59840. FAX: 406-363-6129; website: www.corixa.com. Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP in immunology is available February 2000 to study the role of endosomal proteases in MHC Class II-restricted antigen presentation. The fellowship will focus on the use of selective protease inhibitors and gene-targeted mice to explore the role of specific cysteine proteases in antigen presentation *in vitro* and in select *in vivo* models of immunity. Qualified candidates should have experience in molecular biology and immunology. Send curriculum vitae to: **Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California, San Francisco. FAX: 415-476-5712; e-mail: hachap@itsa.ucsf.edu.**

The University of Georgia's Marine Extension Service seeks a **FISHERY BIOLOGIST** for its coastal Marine Advisory and Seafood Technology Center in Brunswick, Georgia. The position is a nontenured service faculty appointment as a Public Service Assistant. The successful candidate will provide technical support and leadership to the commercial fisheries section of the Brunswick Station for both outreach and research. Please visit our website: www.marsci.uga.edu/ext/MAREX.html or Telephone: 912-264-7268 for more information. *The University of Georgia is an Equal Opportunity/Affirmative Action Institution.*

POSITIONS OPEN

PROTEIN BIOCHEMIST TENURE-TRACK POSITION AT THE UNIVERSITY OF MONTANA

The Division of Biological Sciences invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level to begin August 2000. Teaching expectations are undergraduate and graduate courses in biochemistry, including a graduate-level course in proteins and enzyme kinetics. The successful candidate is expected to have or develop a vigorous, externally funded research program in protein biochemistry and to mentor undergraduate and graduate students. Research interests should interface well with others in the biochemistry-microbiology group (see website: <http://biology.unt.edu>) and other university programs. Requirements include a doctoral degree in biochemistry or closely related field, a strong record of research accomplishments including postdoctoral experience, and teaching experience. Send letter of application, curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: **Dr. Scott Samuels, Protein Biochemistry Search Committee, Division of Biological Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-5122; FAX: 406-243-4184.** To receive full consideration, completed applications should be received by January 31, 2000. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY DRUG ABUSE

Applications are invited for an academic year, tenure-track position at the Assistant Professor level. The successful candidate should have a Ph.D. (preferably in pharmacology) or equivalent degree and several years of postdoctoral experience. The applicant will be expected to: (1) direct a vigorous, extramurally funded research program in the area of drug abuse; and (2) participate in medical and graduate education in the area of neuropharmacology. Applicants should submit a curriculum vitae, a statement of research and teaching interests, and names and addresses of three references to: **Dr. Kenneth E. Moore, Chairman, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824-1317. See our website: <http://www.phmtox.msu.edu>.** Review of applications will begin January 2000 and continue until the position is filled. *Michigan State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

VIROLOGIST/MOLECULAR BIOLOGIST

Anticipated faculty openings at any rank in the **RESEARCH or TENURE TRACK** in the Department of Biochemistry and Molecular Pharmacology, Thomas Jefferson University, are available at the Jefferson Center for Biomedical Research, located on a suburban Philadelphia college campus. Current focus is on antiviral research, proteomics, and use of plants for biomedical purposes; however, the search is an open one. The search will continue until all positions are filled. Send a curriculum vitae, research plans, and direct three letters of reference to: **Search Committee, c/o Dr. Timothy Block, Jefferson Center for Biomedical Research, Suite 238, 700 East Butler Avenue, Doylestown, PA 18901-2697. FAX: 215-489-4920. Equal Opportunity Employer.**

Molecular neurobiologist at **POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE** level to join multidisciplinary neuroscience laboratory studying expression and regulation of genes in single mammalian neurons *in vivo* and *in vitro*. Strong background in neuroscience and skills in molecular biological and cytological techniques necessary. Experience in neurophysiology a plus. Contact: **D. J. Reis, Division of Neurobiology, Weill Medical College of Cornell University, 411 East 69th Street, New York, NY 10021. E-mail: djreis@mail.med.cornell.edu. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.**



MAYO CLINIC POSTDOCTORAL POSITION

Position available for a postdoctoral fellow to study regulators of the mitotic phase of the cell cycle and their role in the development of cancer. A combination of biochemical and genetic approaches to investigate the molecular mechanism of cell-cycle control are used. Individuals with Ph.D. in biological or biomedical sciences and a strong background in biochemistry or molecular biology are encouraged to apply. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Applications, including a CV, summary of past accomplishments and the names of three referees should be sent to:

Jan van Deursen, Ph.D.

Mayo Clinic

**Pediatric and Adolescent Medicine
Guggenheim 10, 200 First St. SW
Rochester, MN 55905**

email: vandeursen.jan@mayo.edu

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SAIC Frederick works at the forefront of biomedical research at the National Cancer Institute (NCI) Frederick Cancer Research & Development Center in Frederick, MD. SAIC Frederick is a leading-edge biotechnology organization dedicated to the development of knowledge and tools for the diagnosis, treatment and prevention of human cancer and AIDS. The NCI has established state-of-the-art biological drug production facilities for the development of experimental therapeutics for preclinical and Phase I and II clinical trials in cancer and other diseases. Several of these are of national importance. Projects are selected from a wide range of NIH-supported research, intramural and nationwide.

Quality Assurance, Director

Experienced QA professional to work collaboratively with members of R&D, manufacturing and other departments to design and support a strategic QA program. Successful candidate will have the ability to ensure QA of the operation in accordance with Good Manufacturing Practices (cGMPs) and Good Management Practices and must be able to demonstrate an effective track record in continuous improvement of the operation. Possession of a PhD degree with 8+ years' experience, MS degree with 12+ years' experience or a BS degree with 15+ years' experience in an area relevant to biopharmaceuticals. Qualified candidates must have served in QA management/leadership roles in the pharmaceutical or biotech industry and have experience with project management, including failure analysis. Knowledge of GMP regulatory requirements, industry standards and issues applicable to FDA, OSHA and EPA required. Certifications in RAPS/ASQ/ASQC/ASM desirable.

Quality Control, Director

QC professional to provide the technical direction of the QC lab supporting production of clinical trial materials by the Biopharmaceutical Development Program (BDP). Responsible for direction of the lab in compliance with requirements for testing according to GMPs. Ideal candidate will assume a pivotal role in review and approval of test results for raw materials, in-process samples, product release and stability testing programs. Director will serve as the analytical expert on project teams and collaborate with production, QA and administrative staff. Possession of a PhD degree with 8+ years' experience, MS degree with 12+ years' experience, or BS degree with 15+ years' experience, laboratory management experience in a GMP-compliant testing lab in the pharmaceutical industry required. Hands-on bench experience in a clinical testing lab desirable.

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RESEARCH SCIENTIST I/II

Working toward the discovery of novel therapeutics, you will conduct neurophysiological research to reveal the underlying mechanisms of various central nervous system disorders. Your activities will include benchwork involving brain slice electrophysiology and/or calcium imaging, as well as supervising Research Associates. To qualify, you must have a PhD in Physiology, Pharmacology or Biology, 1-3 years relevant experience, including *in vitro* preparations, the ability to conduct independent research, and knowledge of cellular physiology. This work demands excellent communication skills, as well as the ability to train Research Associates in whole-cell patch clamping or extracellular recording in brain slices. Training in pharmacological analysis of drug action is preferred.

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THREE TENURE TRACK POSITIONS-LNS

A newly reorganized Laboratory of Neurosciences of the National Institute on Aging is recruiting scientists for three tenure-track positions within its intramural program. Applications must have an established record of scientific accomplishment within the neurobiology of aging or related fields and possess a strong publication record. Preference will be given to applicants with expertise in the following area:

(1) stem cell biology; (2) electrophysiological and/or imaging analyses of synaptic plasticity in brain slice preparations; (3) invertebrate molecular biology focused on identifying genes and cellular mechanisms that either promote or suppress aging and age-related neurodegenerative disorders, but other interests will be considered. These positions are 100% research, include an attractive set-up package and operating budget, and provide a unique and stimulating, interactive research environment that includes laboratories headed by Mark Mattson (Chief), Donald Ingram, Mark Lane, and Nigel Greig. Applicants should send curriculum vitae, bibliography, and 1,000-word overview of a proposed program along with three letters of recommendation to:

**Chair, LNS Tenure Track Search Committee,
Vacancy # NIA 99-40(GRC), c/o Personnel Office,
Box 26 National Institute of Aging, 5600 Nathan
Shock Drive, Baltimore, MD 21224-6823.**

Applications must be postmarked by February 15, 2000.

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POSITIONS OPEN

POSTDOCTORAL POSITION

Position available to investigate modulation of autoreactive T cells at the cellular and molecular level (see Min et al., *J. Exp. Med.* 188:2007, 1998; and Legge et al., *J. Exp. Med.* 185:1043, 1997). Experience with gene cloning and construction of gene library required. Correspondence to: H. Zaghouani, The University of Tennessee, Knoxville, Department of Microbiology, M409 Walters Life Sciences Building, Knoxville, TN 37996. E-mail: hzaghou@utk.edu. UTK is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans with Disabilities Act/ADEA Employer.

Our laboratory is now undergoing a second phase of expansion. Funding is available to study the molecular mechanisms of T cell activation and functional differentiation. Positions for two to three POSTDOCTORAL FELLOWS/TECHNICIANS are open for motivated individuals. All applications are welcome. Prior experience in gene expression, signal transduction, and immunology is particularly desirable. Salaries for Postdoctoral Fellows range from \$26,000 to \$30,000. For more information, please e-mail: Dr. Wei-ping Zheng at weiping.zheng@urmc.rochester.edu. Telephone: 716-273-1402.

POSTDOCTORAL POSITION is available to study signal transduction pathways involved in the regulation of G protein-coupled chemoattractant/chemokine receptors (*JBC* 274:6027, 1999). Experience in molecular/cellular biology is essential. Send curriculum vitae to: Hydar Ali, Ph.D., Associate Professor, Department of Pathology, University of Pennsylvania School of Dental Medicine, 4010 Locust Street, Philadelphia, PA 19104. FAX: 215-573-2050; e-mail: ali@path.dental.upenn.edu. University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study mechanisms of neuropathic pain in biopsy, surgical, and autopsy tissues from pain patients. Experience with anatomic and molecular techniques preferred. Please send letter, curriculum vitae, and names of three references to: Anne Louise Oaklander, M.D., Ph.D., Departments of Anesthesiology and Neurology, Massachusetts General Hospital, 55 Fruit Street, Clinics 3, Boston, MA 02114. FAX: 617-726-5845; e-mail: aoaklander@partners.org.

POSTDOCTORAL POSITION

Postdoctoral-level Molecular Biologist to study HIV-1 in human brain in a project directed at understanding envelope-chemokine receptor interactions in neurological disease. Expertise with high-sensitivity PCR techniques is essential, and experience with HIV-1 and/or immunohistochemistry is desirable. Send letter, curriculum vitae, and three references to: Dr. R. Collman, University of Pennsylvania School of Medicine, 36th and Hamilton Walk, Philadelphia, PA 19104-6060. FAX: 215-573-4446.

RESEARCH TECHNICIAN wanted to work on mechanisms of cell division in yeast and animal cells. Extensive molecular biology experience required. Biochemistry or microscopy experience a benefit. B.A. or M.A. required. Interested applicants should submit a résumé and cover letter to: David Pellman, M.D., Department of Pediatric Oncology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: david.pellman@dfci.harvard.edu. FAX: 617-632-5757. Equal Opportunity Employer.

POSTDOCTORAL POSITION. K channel structure-function relation/channel modulation by cardiac pathology. Experience in patch clamp essential; further experience in molecular biology preferred. Send curriculum vitae and names of three references to: Dr. Gea-Ny Tseng, Department of Physiology, Virginia Commonwealth University, Box 980551, Richmond, VA 23298-0551. E-mail: gtseng@hsc.vcu.edu by January 28, 2000. VCU is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION in molecular mycology at Washington University Medical School. Position is to study polysaccharide capsule synthesis in the opportunistic fungus *Cryptococcus neoformans*, using molecular biology, biochemistry, and genetics. Experience with molecular biology, yeast biology, and/or genetics is desirable. To learn about the Molecular Microbiology Department and link to the laboratory, see website: www.microbiology.wustl.edu. E-mail curriculum vitae, a statement of career goals and research interests, and full contact information for three references to: Dr. Tamara Doering; e-mail: doering@borcim.wustl.edu. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately to study the structure and signal transduction mechanism of guanylate cyclase-coupled transmembrane receptors. Studies will involve combinations of biochemistry, molecular biology, biophysics, and crystallography. One position requires experience in mutagenesis and protein expression. Candidates should send curriculum vitae and list of three references to: Dr. Kunio Misono, Department of Molecular Cardiology/NB50, Lerner Research Institute, Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-444-9263; e-mail: misonok@ccf.org.

POSTDOCTORAL POSITION in protein interactions available April 1, 2000, to develop a new technique (BRET) for assaying protein interactions (see *PNAS* 96:151-156). The candidate will focus on extending the technique to mammalian cells, especially for circadian clock proteins. Required: molecular genetic experience. Desirable: experience with transfection, microscopy, and standard interaction assays. Applicants should send a curriculum vitae including the names of three references to: Dr. Carl Johnson, Department of Biology, Box 1812-B, Vanderbilt University, Nashville, TN 37235 U.S.A. E-mail: carl.h.johnson@vanderbilt.edu; website: <http://johnsonlab.biology.vanderbilt.edu>.

A **POSTDOCTORAL POSITION** is available immediately to study the mechanism by which p53 functions as a tumor suppressor. He/She will characterize some of the newly identified cellular genes regulated by the p53 family proteins. Experience in molecular biology and biochemistry is required. For more information, please see the article in *Molecular Medicine Today* 5:387-392, 1999. Send your curriculum vitae and references to: Dr. Xinbin Chen, Medical College of Georgia, Room CB2803, IMAG, Augusta, GA 30912. E-mail: xchen@mail.mcg.edu. The Medical College of Georgia is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL OR RESEARCH ASSOCIATE in molecular neurobiology. Project is focused on sleep-related changes in neuronal plasticity using molecular and neuroanatomical techniques. Ph.D./M.D./D.V.M. or equivalent is required. Send curriculum vitae and the names and addresses of three references by January 15, 2000, to: James Krueger, Ph.D., Department of VCAPP, Washington State University, Pullman, WA 99164-6520. WSU is an Equal Opportunity/Affirmative Action Employer. People of color, women, persons of disability, Vietnam-era and disabled veterans and/or persons between the ages of 40-70 are encouraged to apply.

POSTDOCTORAL OR RESEARCH FELLOW POSITION available to study the regulation of genotoxic stress responses including cell cycle control in mammalian cells. See website: <http://rex.nci.nih.gov/RESEARCH/basic/lbc/fornace.htm>. Position available for applicant with up to five years of postdoctoral experience; more senior position can be developed for an exceptional candidate with more than five years of experience. Contact: Dr. Fornace, Building 37, Room 5C09, NIH, Bethesda, MD 20892-4255. E-mail: fornace@nih.gov. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

Two Postdoctoral positions are available to study human immunodeficiency virus (HIV-1) envelope glycoprotein structure, function, role in pathogenesis, and interaction with the host immune system. Please send a curriculum vitae and the names of three references to: Dr. Joseph Sodroski, JFB 824, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: Joseph_Sodroski@dfci.harvard.edu. Equal Opportunity Employer.

POSTDOCTORAL FELLOW. University of Pennsylvania. A Postdoctoral position is available for studies on male germ cell genetic modification. Projects involve culture and expansion of male germ line stem cells (spermatogonia), followed by transfection and introduction of the transformed cells into the testis. (*Sem. Cell Dev. Biol.* 9:401-409, 1998; *PNAS* 96:5504-5509, 1999). A background in cell and molecular biology is preferred. Send curriculum vitae, names of three references, and a letter describing research experience to: Dr. R. L. Brinster, School of Veterinary Medicine, University of Pennsylvania, 3850 Baltimore Avenue, Philadelphia, PA 19104.

POSTDOCTORAL POSITION NEUROPHARMACOLOGY

Available April 2000 to study behavioral and neurochemical adaptations following opiate dependence and withdrawal. Experience with stereotaxic surgery, microdialysis, and neuroanatomy techniques preferred. Send research interests, curriculum vitae, and references to: Kenneth Grasing, M.D., Associate Chief of Staff for Research, Kansas City VA Medical Center, Kansas City, MO 64128. E-mail: kenneth.grasing@med.va.gov. Equal Employment Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are available immediately to study neuroprotection and mechanisms of cell death as they relate to Parkinson's disease and other neurodegenerative disorders. A background in neuroscience, previous experience in primary cell culture, and broad knowledge of cellular/molecular approaches for studying cell death and survival are required. Send letter of interest, curriculum vitae, and names of three 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.

Two **POSTDOCTORAL POSITIONS** available immediately to study (1) function of novel retinoic acid receptor-fusion proteins in promyelocytic leukemia, and (2) role of corepressors and histone deacetylase in development of myeloid leukemia. Strong background in molecular biology or protein biochemistry required. Send curriculum vitae and three references to: Dr. Robert Redner, E1058 BST, 211 Lothrop Street, University of Pittsburgh, Pittsburgh, PA 15213.

POSTDOCTORAL POSITION to study DNA repair in mammalian cells in the laboratory of Timothy O'Connor, Ph.D. Must have prior experience in molecular biology, biochemistry, and/or protein isolation. Excellent oral/written communication skills required. Submit curriculum vitae along with three references to: I. Abich, Academic Personnel Office, Beckman Research Institute, 1450 East Duarte Road, Duarte, CA 91010-3000 or FAX: 626-301-8843. (Ref. Job Code OCSC)

POSTDOCTORAL POSITION available to study cellular fatty acid transport and trafficking (*Cell* 79:427-436; *JBC* 273:28642-650; *JLR* 40:881-892). Ph.D., M.D., or V.M.D. and experience in molecular/cell biology required. Send curriculum vitae and names of two references with their e-mail/FAX to: Dr. J. Schaffer, Washington University School of Medicine, 660 South Euclid Avenue, Box 8086, St. Louis, MO 63110. E-mail: jschaff@imgate.wustl.edu; FAX: 314-362-0186.

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- The amount of finance dedicated to each project is **1.3 MF** (salaries, social security charges, management costs, taxes and support expenses, etc. included).
- The beneficiaries must give a dozen lectures and a public seminar should close their stay.
- A multi-disciplinary panel, drawn from the Institut de France, will select applicants according to the scientific interest of the project and the quality of the application.

Applications submitted: before 29 February 2000

Application forms available from the following address:

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45, rue d'Ulm, F-75230 Paris cedex 05

Information :

Wladimir Mercouroff - Tel.: 33 (0) 1 44 32 3185 / 3581 / 3849 - Fax 33 (0) 1 44 32 3183
E-mail: vladimir.mercouroff@ens.fr

GLOBAL OPPORTUNITIES



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RESEARCH ASSOCIATE DEPARTMENT OF PHYSIOLOGY (Ref: A75/99)

A vacancy exists for a fixed-term appointment until 31 December 2001 in the Auditory Laboratory at The University of Western Australia, for a postdoctoral position to work on neural circuitry of the auditory brainstem in collaboration with Associate Professor Don Robertson. The research will use whole-cell patch and microelectrode recording in slices of auditory brainstem, using blind and pre-labelling methods and will investigate the effects of neuromodulators on synaptic function and the pharmacological and physiological characteristics of different identifiable neuronal populations. A knowledge of the auditory system is not required, but experience in brain slice recording and whole-cell patch techniques is essential. For examples of work carried out so far, see articles in *J Neurophysiology*, vol.80, p218-219, 1998 and in *Hearing Research*, vol.116, p86-98, 1998. Prospective applicants should send a curriculum vitae detailing research experience. **For further information and copies of the selection criteria please contact Associate Professor Don Robertson on telephone +61 8 9380 3291, or email drobed@cyllene.uwa.edu.au or access the web link below.**

SALARY RANGE PER ANNUM: Level A A\$33,899 - A\$46,003 (Minimum starting salary for appointee with PhD will be A\$42,856.)

CLOSING DATE: 14 January 2000

PLEASE NOTE: the University will be closed from Saturday, 25 December 1999 to Thursday, 6 January 2000 (inclusive).

Conditions of appointment will be specified in any offer of appointment which may be made as a result of this advertisement.

Written applications quoting reference number, telephone number, qualifications and experience and the names, addresses (including email) and fax/telephone numbers of three referees, who can comment on the applicant's research abilities, should reach the Director, Human Resources, The University of Western Australia, Nedlands WA 6907, Australia, by the closing date.

<http://jobs.uwa.edu.au/>

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POSITIONS OPEN

POSTDOCTORAL POSITIONS (TWO) are available in the Center for the Study of Reproductive Physiology in the Department of Cell Biology and Physiology at the University of Pittsburgh. One position is available to study the neurobiological mechanisms that govern the ontogeny of GnRH gene expression and release in the monkey (**Plant**) and one position to study the cAMP/PKA signaling pathway in the ovary using replication-defective adenovirus vectors (**Zelevnik**). Applicants must have a Ph.D. or M.D. degree and appropriate experience. Send curriculum vitae and names of three references to either: **Dr. Tony M. Plant** (e-mail: plant1+pitt.edu) or **Dr. Anthony J. Zelevnik** (e-mail: zelevnik+pitt.edu). The University of Pittsburgh is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available for individuals interested in investigating leukocyte-dependent mechanisms of inflammation. Present studies include investigating (1) molecular mechanisms regulating neutrophil apoptosis, (2) cell-mediated immunity in glomerulonephritis, (3) immune complex-stimulated neutrophil functions. Strong background in molecular biology/cell biology, immunology, or pathology is desired. Experience in small-animal experimentation plus. Publication(s) in international journals is a prerequisite. Send curriculum vitae and names of three references to: **Tanya Mayadas, Ph.D., Associate Professor of Pathology, Brigham and Women's Hospital and Harvard Medical School, 221 Longwood Avenue, Room 404, Boston, MA 02115. FAX: 617-732-5933.**

POSTDOCTORAL POSITION in gene therapy for prostate cancer. Available in January 2000. \$28,000 to \$30,000 plus health insurance. Experience in transfection techniques, gene cloning and expression, DNA-protein interaction, apoptosis, and DNA repair. Good writing skills and ability to work independently are essential. Send curriculum vitae and names of three references to: **Dr. V. Soldatenkov, Department of Radiation Medicine, Georgetown University Medical Center, The Research Building, Room E204A, 3970 Reservoir Road, N.W., Washington, DC 20007-2197. FAX: 202-687-0400; e-mail: soldates@gunet.georgetown.edu.** Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in T cell memory studies at the Trudeau Institute. Two Postdoctoral positions are available to study the factors that control the generation and maintenance of CD4 and CD8 T cell memory in a murine model. The Trudeau Institute provides excellent training opportunities in basic immunology and infectious disease studies. Send curriculum vitae, research interests, and names of three references to: **Drs. Susan Swain and Richard Dutton, Trudeau Institute, P.O. Box 51, Saranac Lake, NY 12983. E-mail: dutton@northnet.org.** The Trudeau Institute is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

Texas A&M University at Galveston (TAMUG) seeks applications for two three-year Postdoctoral Fellowships from highly qualified candidates interested in any aspect of marine biology, marine science, or environmental research. For details, see website: <http://www.tamug.tamu.edu/postdoc>. Telephone: 409-740-4810. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL RESEARCH FELLOWSHIP available for studies on bone cell regulatory proteins. Experience in protein purification, basic biochemistry, molecular biology techniques, and signal transduction mechanisms desirable. Ph.D. required. Two to three years of previous postdoctoral experience desirable. Salary and benefits competitive; possibility exists for long-term position. Send résumé, cover letter, and names of three references to: **Dr. S. Mohan, P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

POSTDOCTORAL POSITION IMMUNOLOGY UNIVERSITY OF PENNSYLVANIA School of Veterinary Medicine

A Postdoctoral position in a collaborative study in the Departments of Clinical Studies (**Dr. Ray Sweeney**) and Pathobiology (**Dr. Phil Scott**) is available beginning January 1, 2000. The successful candidate's efforts will focus on the bovine immune response to *Mycobacterium paratuberculosis*, with an emphasis on vaccine development. Candidates with a strong background in immunology are encouraged to contact: **Dr. Raymond W. Sweeney, Department of Clinical Studies, New Bolton Center, 382 West Street Road, Kennett Square, PA 19348 U.S.A. FAX: 610-925-8100** with curriculum vitae and names of three references.

POSTDOCTORAL POSITION available immediately to study the role of TGF- β in the immune system, including: (1) effects of TGF- β on Th1/Th2 development, (2) mechanisms of pathogenesis in the TGF- β 1 knockout mouse, (3) generation and characterization of mice with immune-specific lesions in the production of or response to TGF- β (via Cre-Lox/transgenic technology). Applicants must have a Ph.D. and/or M.D.; experience in molecular biology, genetics, or immunology preferred. Send curriculum vitae and names/addresses of three references to: **Jim Gorham, M.D., Ph.D., Dartmouth Medical School, Department of Pathology and Program in Immunology, One Medical Center Drive, Lebanon, NH 03756. FAX: 603-650-6120; e-mail: James.D.Gorham@Dartmouth.edu.**

POSTDOCTORAL POSITION

The Department of Anatomy, Pathology, and Pharmacology, College of Veterinary Medicine, Oklahoma State University, invites applications for a Postdoctoral researcher in area of neurotoxicology. Applicant must have a doctoral degree in toxicology, pharmacology, neuroscience, or related field. The project will examine neurotoxicity of pesticides. Send curriculum vitae including names of three references to: **Carey Pope, Ph.D., Room 250, Veterinary Medicine Building, Department of Anatomy, Pathology, and Pharmacology, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74078.** OSU is an Equal Opportunity/Affirmative Action Employer that encourages applications from members of minority groups.

POSTDOCTORAL POSITIONS for individuals to perform research in the areas of cell cycle regulation/restriction point control (**Alan Diehl, Ph.D., laboratory**); telomerase/telomere biology (**Michel Ouellette, Ph.D., laboratory**); antigen presentation/cancer immunotherapy (**Joyce Solheim, Ph.D., laboratory**); or signal transduction mechanisms regulating cell survival and differentiation (**Robert Lewis, Ph.D., laboratory**). Send curriculum vitae and names, telephone numbers, and e-mail addresses of three references to: **the relevant professor, Eppley Institute for Research in Cancer and Allied Diseases, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, NE 68198-6805.** For additional information, contact our website: www.unmc.edu/Eppley/. UNMC is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION DUKE UNIVERSITY MEDICAL CENTER DEPARTMENT OF RADIOLOGY

A position is available immediately for a Postdoctoral researcher in cancer biomarker discovery using surface-enhanced laser desorption and ionization mass spectrometry. Experience in MALDI-TOF mass spectrometry and protein chemistry would be helpful. Applicants are requested to send a curriculum vitae and the names and addresses of three references to: **Mike Campa, Ph.D., DUMC, Department of Radiology, Box 2610, Durham, NC 27710.**

POSITIONS OPEN

POSTDOCTORAL POSITION

One or two NIH-funded Postdoctoral positions to study the physiological role of phospholipase D and phosphatidic acid in growth factor signal transduction starting in May or June 2000. The research is part of a highly interactive group and will involve molecular biology, confocal microscopy, caged compounds, and live cell microscopy. Send curriculum vitae to: **Dr. Guillermo Romero, W1345 BST, Department of Pharmacology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. E-mail: ggr+pitt.edu.** An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITIONS available immediately for research on molecular regulation of spermatogenesis, sperm maturation, fertilization, embryo implantation, and androgen receptor transcriptional activation. These *NIH-funded positions* are available to U.S. citizens and permanent residents only. Send curriculum vitae, names of three references, and letter describing research interests (or request for more information) to: **Dr. Frank S. French, Laboratories for Reproductive Biology, CB# 7500, 382 Medical Sciences Research Building, University of North Carolina School of Medicine, Chapel Hill, NC 27599-7500. FAX: 919-966-2203; e-mail: fsfrench@med.unc.edu.** The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.

A POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE POSITION is available immediately to study the effects of ethanol on regulation of glucose transport. This position will specifically focus on signal transduction and regulation of intracellular trafficking of the GLUT4 glucose transporter in adipose and muscle (*Ann. J. Physiol.* 271:E477-E484, 1996; 277:E259-E267, 1999). Candidates should have a recent Ph.D. in cell biology, biochemistry, or a related discipline and experience in signal transduction and molecular biology. Send curriculum vitae, statement of research interests, and names of three references to: **Dr. Laura Nagy, Department of Nutrition, Case Western Reserve University, 1213 Abington Road, Room 201, Cleveland, OH 44104-4906.**

POSTDOCTORAL POSITION at University of California at San Diego is available immediately to investigate protease and protease inhibitor mechanisms required in the biosynthesis of peptide neurotransmitters and hormones. Expression of protease and serpin genes in cultured cells by plasmid and viral vectors will be analyzed by methods in peptide/protein biochemistry. Appropriate experience and Ph.D. degree are required. Curriculum vitae and three references to: **Dr. V. Hook, c/o M. Richards, University of California at San Diego Department of Medicine, 9500 Gilman Drive #0822, La Jolla, CA 92093-0822. FAX: 619-543-2281 or e-mail: mlrichards@ucsd.edu.**

RESEARCH ASSISTANT PROFESSOR/ POSTDOCTORAL ASSOCIATE

In (1) protein purification of androgen receptor and nuclear orphan receptor for crystallization and *in vitro* transcriptional assay or (2) molecular mechanism of steroid receptor co-activators. Send curriculum vitae to: **Chawnshang Chang, George H. Whipple Professor, University of Rochester. E-mail: chang@urmc.rochester.edu; FAX: 716-756-4133.** For publications, see website: www.urmc.rochester.edu/ChangLab/.

POSTDOCTORAL POSITION in bioorganic chemistry is open to study the mechanisms by which enzymes activate C-H and N-H bonds. Experience in enzymology, physical-organic chemistry, or inorganic chemistry preferred. Send curriculum vitae and three letters of reference to: **Prof. Annon Kohen, Department of Chemistry, University of Iowa, Iowa City, IA 52242 U.S.A. or e-mail: annonkohen@uiowa.edu.** UI is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.



FONDATION ARES-SERONO
THE ARES-SERONO FOUNDATION

The Ares-Serono Foundation is supporting the following in 2000

Workshops

Molecular Genetics of Human Reproduction

Crete - September 15-17

Scientific Organiser: E Milgrom (F)

4th International Workshop on Developmental Endocrinology

Cambridge, UK - September 21-22

Scientific Organisers: I. Hughes (UK), P. Gluckmann (NZ), M. Aubert (CH)

2nd Workshop on Inhibin, Activin & Follistatin

Melbourne, Australia - October 26-28

Scientific Organiser: D. de Kretser (AUS)

Fellowships

Two Fellowships will be awarded by the Ares-Serono Foundation for postdoctoral training pertaining to studies in the field of neurosciences, particularly related to molecular or immune mechanisms potentially leading to therapeutic application, based on an international competition.

Fellowship Terms

Full-time postdoctoral training

2 years of support

USD40,000 annual grant towards salary and direct expenses for postdoctoral training

Schedule

Application deadline

February 29, 2000

Grants announced

After July 15, 2000

Fellowships start

October 2000

For further information or to register for any of the above Workshops please contact

The Ares-Serono Foundation, 12 chemin des Aulx, 1228 Plan-Les-Ouates, Geneva, Switzerland

Tel +41 22 706 9368 Fax +41 22 706 9398

Internet Deborah.Moore@Serono.com

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE

DEAN OF THE SCHOOL

The London School of Hygiene & Tropical Medicine is seeking to appoint a Dean in succession to Professor Harrison Spencer.

The mission of the School, an independent UK Higher Education Institution, is to contribute to the improvement of health worldwide through the pursuit of excellence in research, postgraduate teaching, advanced training and consultancy in national and international public health and tropical medicine.

The Dean is the Chief Executive Officer of the School and is responsible to the Board of Management for its academic, financial and administrative affairs. The successful candidate will have the capacity and vision to provide energetic leadership in an international institution in a challenging health-related higher education environment, including the ability to develop strategy and gain support for its implementation. In addition, they will have experience of successful management at a senior level and an internationally relevant academic record.

Detailed information about this position, the School and application requirements may be obtained from the Secretary & Registrar, London School of Hygiene & Tropical Medicine, Keppel Street, London WC1E 7HT; telephone +44 (0)20 7927 2277; fax: +44 (0)20 7636 7679; e-mail: ruth.fitch@lshtm.ac.uk, to whom applications should be submitted by **20th January 2000**.

The London School of Hygiene & Tropical Medicine is an equal opportunities employer



SYMPOSIUM



OTITIS MEDIA: A PREVENTABLE DISEASE?

International symposium
organized by the
Marcel Mérieux Foundation

Les Pensieres, Veyrier-du-Lac
(near Annecy, French Alps)
13- 16 February 2000

Scientific Committee

Ron Dagan (Beer Sheva), Juhani Eskola (Helsinki), W. Paul Glezen (Houston), Jerome Klein (Boston), Sheena Loosmore (Toronto), Ollie Ruuskanen (Turku), Joseph W. St Geme (Saint Louis), Stanley Plotkin (Paris/ Philadelphia), Betty Dodet (Lyon)

The purpose of this Symposium is to gather scientists in the area of otitis, in order to review the immunology, epidemiology and natural history of the disease, and discuss the possibilities of prevention, with special emphasis on immunization strategies.

Information and registration:

Fondation Mérieux

17 rue Bourgelat, BP 2021, 69227 Lyon Cedex 02, France.

Tel: 33 (0)4 72 40 79 72 - Fax: 33 (0)4 72 40 79 50

E-mail: bdodet@fond-merieux.org & fmerieux@asi.fr

Web site: <http://www.fond-merieux.org>

POSITIONS OPEN

POSTDOCTORAL POSITIONS available immediately in sensory biology. Positions in (1) visual neuroscience using transgenic zebrafish and mutagenesis to investigate genetic regulation of the retinal development and function; (2) chemical senses, patch-clamp studies of brain insulin receptor kinase, and ion channel neuromodulation using site-directed mutagenesis and genetically altered mouse models as applied to olfaction. Individuals with experience in genetics, molecular biology, neurobiology, patch-clamp or protein biochemistry, and signal transduction are encouraged to apply. Send curriculum vitae, representative reprints, and at least three letters of reference to: **Drs. Fadool (identify position), Department of Biological Sciences, Florida State University, Biomedical Research Facility, Tallahassee, FL 32306-4340.** See also website: <http://www.fsu.edu/~biology/faculty1.html>. FSU is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS ALBERT EINSTEIN COLLEGE OF MEDICINE, NEW YORK

Positions available immediately for individuals with exceptional immunology, cell and/or molecular biology backgrounds. **Dr. Anne Davidson:** Investigate the mechanism of action of costimulatory blockade and novel designer cytokines in human and murine SLE and in transplantation models. **Dr. Sanjeev Gupta:** Study the biology of transplanted liver cells, including stem cell, xenografting, and novel animal models. **Dr. Chaim Putterman:** Study the antigenic triggers and molecular targets of anti-DNA antibodies in SLE. Excellent English and availability for interview essential. Send statement of interests, and curriculum vitae listing all publications and addresses of three references to: **Anne Davidson, Sanjeev Gupta, or Chaim Putterman, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, U505, Bronx, NY 10461.** Website: www.aecom.yu.edu. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP BEHAVIOR OF GENE REGULATORY CIRCUITRY

The University of Arizona Department of Biochemistry has a position to study the behavior of gene regulatory circuitry using the genetic switch of phage lambda as a model system (see *EMBO J.* 18: 4299-4307, 1999). Ideal candidate has Ph.D. in biochemistry, molecular biology, genetics, or related field; prokaryotic genetics and recombinant DNA techniques background; and interest in understanding behavior of complex systems. More information at website: www.biochem.arizona.edu/profiles/little.htm or www.hr.arizona.edu. Send curriculum vitae and names of three references to: **Dr. John W. Little, Department of Biochemistry, The University of Arizona, Tucson, AZ 85721.** E-mail: jlittle@u.arizona.edu. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.

POSTDOCTORAL POSITION available starting February 2000 to participate in NIH- and NSF-funded projects investigating motor cortex-cerebellar interactions underlying motor control. Applicants should have Ph.D. or M.D. and experience in single or multiunit recording. For more information, see website: www.med.nyu.edu/sackler/postdoc/eric_lang.htm. Please send curriculum vitae and names of references to: **Dr. Eric Lang, Department of Physiology and Neuroscience, New York University, School of Medicine, 550 First Avenue, New York, NY 10016.** E-mail: lange01@popmail.med.nyu.edu.

POSTDOCTORAL FELLOW position available in major Harvard-affiliated hospital. Expertise in lipid biochemistry required. Projects involve study of fatty acid biosynthesis and regulation of inflammation in cystic fibrosis. Experience with Western blot and cell fractionation desirable. Send résumé to: **Dr. Freedman, Beth Israel Deaconess Medical Center, Dana 501, 330 Brookline Avenue, Boston, MA.** E-mail: sfreedma@caregroup.harvard.edu.

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions. website: <http://www.training.nih.gov>. The NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS available. Applicants are sought for positions in the Endocrine Division of Physiology at Dartmouth Medical School. One successful candidate will join an exciting research project related to autocrine regulation of lung and breast cancers by neuropeptides or to the roles of vasopressin in cystic fibrosis/Alzheimer's disease. Two others will work with projects related to regulation of gene expression by thyroid hormone or aldosterone. Applicants must be U.S. citizens or permanent residents with a Ph.D. or M.D. Experience with techniques in molecular biology, sterile cell culture, or protein purification is desirable. Send curriculum vitae and names of three references to: **Dr. William G. North, Professor of Physiology, Dartmouth Medical School, 1 Medical Center Drive, Lebanon, NH 03756.** Telephone: 603-650-7736. E-mail particulars and/or questions to: William.G.North@Dartmouth.Edu. Some information about physiology at DMS can be obtained through our website: <http://www.dartmouth.edu/~physiol/>.

POSTDOCTORAL POSITIONS AT THE UNIVERSITY OF VIRGINIA

Postdoctoral positions are available to study how the diversity of G protein α and $\beta\gamma$ subunits leads to specificity in transmembrane signaling. We are defining functional roles for $\beta\gamma$ dimers containing divergent β subunits such as β_5 using pure, recombinant proteins and cell transfection assays to monitor interaction with various α subunits and effectors. Systems under study include receptor- $\alpha\beta\gamma$ coupling, regulation of Type I and II adenylyl cyclases, and activation of PLC- β or PI 3-kinase. A Ph.D. with experience with molecular techniques, biochemistry, and protein purification is required. Send a curriculum vitae and list of references to: **Dr. James C. Garrison, Department of Pharmacology, Box 448, University of Virginia Health System, Charlottesville, VA 22908.** Application deadline: December 31, 1999. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available at The Jackson Laboratory to study the genetics of hearing impairment in mice. The NIH-funded project will involve the positional cloning and molecular characterization of two newly discovered spontaneous mutations causing deafness in mice. Applicants should have a Ph.D. degree with publications and a strong background in molecular genetics. This position provides a unique opportunity to develop skills and obtain experience in the genetics, physiology, and anatomy of the auditory system in mutant mice as models for understanding human hereditary deafness. Flexible start date. Send letter of interest, curriculum vitae, and the names/addresses of three references to: **Dr. Kenneth R. Johnson, The Jackson Laboratory, Bar Harbor, ME 04609.** E-mail: krj@jax.org. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study signal transduction and gene expression related to the pathogenesis of atherosclerosis. Experience in molecular biology, protein biochemistry, and signal transduction preferred. Please send curriculum vitae and references to: **Dr. Xilin Chen, Division of Cardiology, Emory University School of Medicine, 1639 Pierce Drive, WMB 319, Atlanta, GA 30322.** FAX: 404-727-3330; e-mail: xchen01@emory.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN NUTRITION AND IMMUNOLOGY

Two positions are open immediately with the Western Human Nutrition Research Center at the University of California, Davis, to examine the cellular and molecular effects of nutrition on immune function. A Ph.D. or M.D. is required, and previous experience in cellular and molecular biology is expected. The projects involve measuring the impact of fatty acids (**Dr. Kelley**) or vitamin A/retinoic acid (**Dr. Stephensen**) on gene expression (including microarray analysis) in cells of the immune system. Send curriculum vitae, bibliography, description of research experience to: **Dr. Darshan Kelley (e-mail: dkelley@whnrc.usda.gov) or Charles Stephensen (e-mail: cstephensen@ucdavis.edu), USDA Western Human Nutrition Research Center, Surge IV Room 213, University of California, Davis, CA 95616.**

POSTDOCTORAL POSITIONS in RNA biochemistry and microbiology to study (1) RNA-protein interactions and anti-HIV therapeutics, (2) catalytic RNA and DNA, (3) engineering microbial physiology by expressing aptamers and ribozymes *in vivo*, and (4) molecular recognition in RNA-small molecule complexes. Successful applicants should have background or strong interest in nucleic acid biochemistry, microbial genetics and physiology, tissue culture, enzymology, *in vitro* evolution (SELEX), or chemical synthesis. More information at website: ernic.chem.indiana.edu/~dhburke. Send cover letter and curriculum vitae, contact information for references, and brief statement of research interests to: **Donald H. Burke, Department of Chemistry, 800 East Kirkwood Avenue, Indiana University, Bloomington, IN 47405-7102.** E-mail: dhburke@indiana.edu. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

A postdoctoral position is available to study the molecular basis of neurodevelopment and neurodegenerative disease. Current investigations focus on understanding the roles of Presenilin-1 and Notch-1 in neural development and in adult brain using conditional *Presenilin-1* and *Notch-1* mutant mice. Highly motivated individuals with a recent Ph.D. and substantial experience in developmental neurobiology, genetics, and molecular biology are encouraged to apply. Send curriculum vitae, two recent reprints, and names of three references to: **Ms. Alice Colby, Center for Neurologic Diseases, 77 Avenue Louis Pasteur, Boston, MA 02115.** E-mail: Colby@cnd.bwh.harvard.edu.

POSTDOCTORAL POSITION MUTATION IN ANTIBODY GENES

A position is available to study somatic hypermutation in immunoglobulin variable genes. Research will focus on identifying the genes and DNA polymerases involved in the mutation mechanism, using knockout mice and DNA microarray systems. Our laboratory has an active research environment in DNA repair and immunology with in-house services for the project. Please send curriculum vitae and names of three references to: **Dr. Patricia Gearhart, Laboratory of Molecular Genetics, National Institute on Aging, National Institutes of Health, 5600 Nathan Shock Drive, Baltimore, MD 21224.** E-mail: gearhartp@grc.nia.nih.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms of apoptosis regulation. Studies will focus on developing novel agents that disrupt antiapoptotic machinery, including interactions between Bcl-2 and other cellular proteins. A strong background in protein or peptide biochemistry is required. Please send curriculum vitae and names of three references to: **Daniel E. Johnson, Ph.D., University of Pittsburgh, BST E1055, 211 Lothrop Street, Pittsburgh, PA 15213-2582.**

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During the first quarter of 2000 we will be seeking to recruit more than 30 experienced, innovative Scientists and Senior Scientists in all departments of the Cardiff R&D Unit. You will join multi-skilled teams of scientists involved in developing new technology areas and applications targeted towards the drug discovery process.

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The level of appointment and salary offered will depend upon both your range and depth of experience. To complement an attractive benefits package including 25 days holiday as a minimum, an excellent contributory pension scheme and life assurance, we also offer a friendly working environment at our site based close to Cardiff with ready access to the mountains of the Brecon Beacons and to the South Wales coastline.

If you wish to be considered for any of these opportunities please email Peter Robinson, quoting reference apb/a3: hr.cardiff@eu.apbiotech.com Amersham Pharmacia Biotech, Cardiff Laboratories, Whitchurch, Cardiff, CF14 7YT, South Wales, UK. Further information on our Company and our technology can be found at www.apbiotech.com



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POSITIONS OPEN

SYSTEMATICS OF MARINE INVERTEBRATES

POSTDOCTORAL FELLOWSHIP at University of Kansas for systematic revision of sea anemone genus using laboratory and field techniques. Strong background in modern systematics or study of sea anemones required; both preferred. Experience with molecular techniques and skill in GIS, databasing, or image manipulation desirable. Position details: assumable 1 September 2000 to 31 January 2001 (doctoral degree must have been granted by then); year-round, full-time position (depends on federal funding) lasting five years pending satisfactory performance and funding continuation; open to non-U.S. citizens. Send curriculum vitae, copies of publications, brief statement of interests and career goals, official academic transcripts, and three letters of recommendation to: **Daphne G. Fautin, Biological Sciences, Haworth Hall, University of Kansas, Lawrence, KS 66045 U.S.A. Telephone: 1-785-864-3062; FAX: 1-785-864-5321; e-mail: fautin@ukans.edu.** Application review begins 20 March 2000.

The University of Kansas is an Equal Opportunity/Affirmative Action Employer. The University encourages applications from underrepresented group members. Federal and state legislation prohibits discrimination on the basis of race, religion, color, national origin, ancestry, sex, age, disability, and veteran status. In addition, University policies prohibit discrimination on the basis of sexual orientation, marital status, and parental status.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE POSITIONS Molecular Biology of Transcription Factors Computational Analysis of Transcription Factor Sites

Positions are available to study (1) a novel transcription factor that regulates liver development, (2) the long-distance, locus-control mechanisms that regulate the albumin and alpha-fetoprotein genes, and (3) development of new approaches to the computerized definition of cis transcription controls. Applicants should have a Ph.D. and experience in molecular cloning and the molecular biology of transcription factors or computational biology or development or liver cell biology. The positions can provide both training and extensive opportunities for collaboration. Please send curriculum vitae and the names of two references to:

Joseph Locker
Department of Pathology and The Liver Center
Jack and Pearl Resnick Campus
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, NY 10461
Telephone: 718-430-3422
FAX: 718-430-3483
E-mail: locker@aecom.yu.edu
Equal Opportunity Employer.

JEREMIAH MEAD FELLOWSHIPS IN RESPIRATORY BIOLOGY

POSTDOCTORAL POSITIONS, including named fellowships with annual stipend of \$38,000, are available in the Physiology Program at the Harvard School of Public Health. Faculty interests include innate immunity, signal transduction, redox signaling, respiratory neurophysiology, cellular biomechanics, integrative physiology, physiological genomics, and bioengineering. These interests are applied to understanding physiology of the normal lung, as well as physiological alterations associated with asthma, infection, and air pollution. Please send curriculum vitae, a brief statement of goals, and the names of three references to: **Jeffrey Fredberg, Ph.D., Physiology Program, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. E-mail: jfredber@hsph.harvard.edu; FAX 617-432-3468.** Further information is available at website: www.hsph.harvard.edu/Register/ch-phys.html. NIH support is available for U.S. citizens and permanent residents. Minority applicants are encouraged to apply.

POSITIONS OPEN

EXPERIENCED NUCLEIC ACID BIOCHEMIST

A **POSTDOCTORAL FELLOWSHIP** is available immediately. The project involves purification and functional analysis of HIV-1 reverse transcriptase variants containing structure-based mutations in the active site and in the fingers and the thumb subdomains to delineate determinants of polymerase processivity, fidelity, and enzyme translocation. Candidates with experience in the areas of nucleic acid biochemistry, protein chemistry, and DNA/RNA polymerase biology should send or e-mail their curriculum vitae and names of three references to:

Dr. Vinayaka Prasad
Albert Einstein College of Medicine
Jack and Pearl Resnick Campus
1300 Morris Park Avenue
Bronx, NY 10461 U.S.A.
E-mail: prasad@aecom.yu.edu
Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** in neurophysiology are available in the Center for Computational Biology at Montana State University, Bozeman, to study neural coding in the cerebellar sensory system of the cricket. The focus of one position is to characterize encoding of dynamic sensory stimuli by neural ensembles, using multiunit extracellular recording. The focus of the second position is to determine the physiological mechanisms underlying encoding in this system, using intracellular and optical recording techniques in combination with advanced morphometric analysis. Both projects will involve the development of mathematical and compartmental models of neurons and networks and will involve the application of information theory to the analysis of neural systems. Applicants must have a Ph.D. in neuroscience or a related field and must have experience in electrophysiology. Experience in computational approaches and information theory is preferred. Advanced computational, microscopy, and physiological recording facilities are available within the Center. Contact: **John Miller, e-mail: jpm@nervana.montana.edu** and **Gwen Jacobs, e-mail: gwen@nervana.montana.edu.** *Americans with Disabilities Act/Equal Opportunity/Affirmative Action/Veterans Preference.*

POSTDOCTORAL POSITION TRANSCRIPTIONAL CONTROL OF CELL FATE

Position (two to three years) is available in the Department of Medicine (Division of Nephrology and Hypertension). The project uses molecular and transgenic techniques to study the regulation of epithelial-mesenchymal transformation in the cell fate of organ fibroblasts. Experiments include yeast one-hybrid screening for candidate cDNAs, *in vitro* studies of candidate transcription factors for functional activity on fibroblast-specific promoters, and the generation of wild-type and genetically modified animals using dominant negative and knock-in constructs. Please send curriculum vitae and names of three references to: **Eric G. Neilson, M.D., Hugh J. Morgan Professor and Chair, Department of Medicine, D-3108 Medical Center North, Vanderbilt University School of Medicine, Nashville, TN 23232-2358.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS. Research includes cloning/functional analysis of novel TGF β signaling components, signal transduction, cell cycle, Smads, human colon/breast cancer. Ph.D./research in molecular biology documented in recent publications. Send curriculum vitae and three references to: **Dr. K. M. Mulder, Professor, Penn State College of Medicine H078, 500 University Drive, Hershey, PA 17033. E-mail: dlp11@psu.edu; FAX: 717-531-5013; website: www.collmed.psu.edu/pharm/faculty/mulder.htm.** *Equal Opportunity Employer.*

POSITIONS OPEN

METABOLISM BRANCH NATIONAL CANCER INSTITUTE

The Metabolism Branch, National Cancer Institute, is offering a **POSTDOCTORAL RESEARCH FELLOW** position in the laboratory of **Dr. Thomas Waldmann** for an individual who would investigate new therapeutic approaches directed toward the IL-2/IL-15 and HER2/neu receptors and their signaling pathways. The approach, focusing on the IL-2 receptor, exploits the observation that the high-affinity IL-2R is not expressed by normal cells but is expressed by select leukemic cells, as well as T-cells involved in allograft rejection and autoimmunity. A murine model of IL-2R expressing Adult T-Cell Leukemia (ATL) was established by introducing cells from an ATL patient into SCID-NOD mice. Following serial transfer of these cells, the animals developed grossly enlarged spleens and leukemia of ATL cells that retained the phenotype and HTLV-I integration pattern of the patient's ATL leukemia. The candidate would be involved in the development of novel therapeutic agents and in their evaluation in the mouse ATL model, as well as in a model of HER/2neu expressing breast cancer. Agents showing promise in these murine models may move forward into clinical trials. Humanized anti-receptor antibodies armed with alpha and beta emitting radionuclides or with toxins, as well as JAK-3 kinase-directed inhibitors, are some of the agents under investigation. Applicants should have completed an M.D. or Ph.D. and be highly motivated individuals interested in joining a progressive clinical research program. Interested candidates should submit a statement of interest, curriculum vitae, bibliography, and list of three references to: **Ms. Jean Decker, Building 10, Room 4N115, NIH, Bethesda, MD 20892-1374.** *NIH is an Equal Opportunity Employer.*

POSTDOCTORAL OPPORTUNITY IN MOLECULAR EPIDEMIOLOGY LOMBARDI CANCER CENTER

The Molecular Epidemiology Laboratory of the Lombardi Cancer Center is seeking a Postdoctoral Fellow to join in a laboratory-based program on inherited and acquired risk factors for lung and breast cancer or genetic risk factors for tobacco addiction. The fellow will participate in epidemiological studies that focus on carcinogen-DNA adducts in human tissues, metabolizing enzymes, genetic polymorphisms for metabolizing enzymes, and genes involved directly in carcinogenesis. Previous experience in chemistry, molecular genetics, epidemiology, or carcinogen-DNA adduct detection preferred. Fellow will be encouraged to attend postgraduate training in epidemiology. Please send curriculum vitae, a short statement of research interest and goals, and the names and addresses of three references to: **Peter G. Shields, M.D., Room E501, Research Building, 3970 Reservoir Road, N.W., Washington, DC 20007. E-mail: huffk@gunet.georgetown.edu.** *Affirmative Action/Equal Opportunity Employer. Women/minorities encouraged to apply.*

Several **POSTDOCTORAL POSITIONS** are available to investigate the biochemical and cell biological basis of the negative regulation of tyrosine kinases. The major focus is on the recently uncovered role of the Cbl family proteins to target activated kinases for ubiquitination and degradation (see: *Immunology Today* 20:375, 1999). The ongoing projects use a combination of biochemical, genetic, and cell biological approaches and provide outstanding opportunities for training within the stimulating milieu of Harvard Medical School campus. Candidates should have a M.D. and/or Ph.D. degree in a relevant field and should be able to document their background through peer-reviewed publications. Send curriculum vitae and three letters of recommendation to: **Hamid Band, M.D., Ph.D., Associate Professor of Medicine, Brigham and Women's Hospital, Harvard Medical School, Smith Building, Room 538C, One Jimmy Fund Way, Boston, MA 02115. Telephone: 617-525-1101; FAX: 617-525-1010; e-mail: hband@rics.bwh.harvard.edu.**

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The Stazione Zoologica "Anton Dohrn" of Naples will launch a call for application to its International Ph.D. Program early in 2000. Deadline for applications will be April 30, 2000. Information can be found on the website: <http://www.szn.it/~phdszn/default.htm>.

ANNOUNCEMENTS

NASA PLANETARY BIOLOGY INTERNSHIPS

The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for internships to explore scientific questions of global scale about the planet Earth. Interns will receive awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomineralization, origin and early evolution of life. Application deadline: March 1, 2000. For information/applications, contact: Michael Dolan, Planetary Biology Internship, Department of Geosciences, Box 35820, University of Massachusetts, Amherst, MA 01003-5820. E-mail: pbi@geo.umass.edu. Telephone: 413-545-3223. An Equal Opportunity/Affirmative Action Institution.

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