

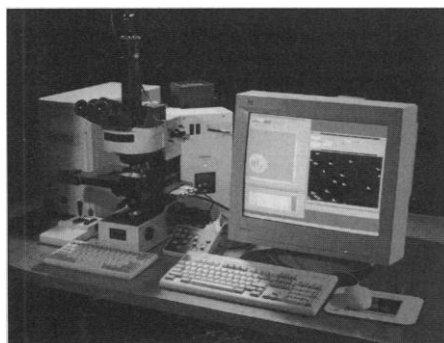
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sis, and image output. The fully integrated system automatically scans the defined area of a microscope slide and performs continuous autofocus during the scan. The added capability to automatically relocate any area on a slide allows the researcher to quickly relocate specific objects for further analysis. The Windows NT operating system provides a platform for the integration of computerized and standard fluorescence microscopes, color cameras, and automated stages.

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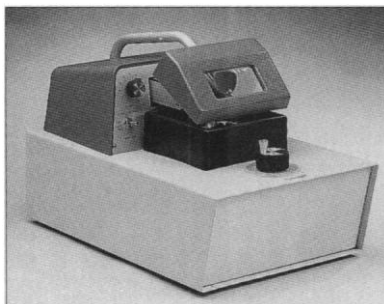
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### POSITIONS OPEN

#### DIRECTOR, PROGRAM IN HUMAN AND MOLECULAR GENETICS

Children's Memorial Institute for Education and Research

Children's Memorial Hospital/  
Northwestern University Medical School

The Children's Memorial Institute for Education and Research (CMIER) of Children's Memorial Hospital and Northwestern University Medical School invites applications for leadership of a new core program in mammalian and molecular genetics. The Director of the program will receive an endowed, tenured, full-time faculty position at the Professorial level in the College of Medicine. Candidates must have prior experience with interdisciplinary research and graduate education programs, and actively participate in an outstanding research program funded from extramural sources. The primary focus of this position will be development of a creative and innovative investigative program in CMIER that also interacts with other active research groups on campus, including the independent Division of Medical Genetics at Children's Memorial Hospital. A substantial recruitment package will be made available to the Director to initiate and facilitate the growth of this program in a state-of-the-art research facility. A start-up date of January 2000 is anticipated.

Please send a curriculum vitae and a brief statement of research interests by July 1, 1999, to:

Bernard L. Mirkin, Ph.D., M.D.  
Human and Molecular Genetics  
Search Committee

Professor, Department of Pediatrics and  
Molecular Pharmacology and  
Biological Chemistry

Director of Research, Children's Memorial  
Institute for Education and Research

Children's Memorial Hospital  
2300 Children's Plaza, #117  
Chicago, IL 60614

Telephone: 773-880-4590

FAX: 773-880-3282

E-mail: [b-mirkin@nwu.edu](mailto:b-mirkin@nwu.edu)

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#### RESEARCH ASSISTANT PROFESSOR OF BIOCHEMISTRY AND BIOPHYSICS

University of Pennsylvania  
School of Medicine

The Department of Biochemistry and Biophysics seeks to recruit a Research Assistant Professor (non-tenure-track) with a strong research interest in the design, synthesis, and structure determination of self-assembling monolayers. The successful candidate will run an independent research effort in the area of self-assembling monolayers. Applicants should have a strong background in the area of organic synthesis, biological chemistry, and surface chemistry. Please submit a curriculum vitae and have three letters of recommendation sent to: **Faculty Search Committee, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6059.** The deadline for applications is June 30, 1999. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

University of Florida seeks an **ASSISTANT/ASSOCIATE PROFESSOR** and **CHIEF** position in the Department of Medicine, Division of Internal Medicine. M.D. degree, Board-certified/Board-eligible in internal medicine. This position will be responsible for the administrative duties of the Division of Internal Medicine and patient care in the inpatient and outpatient clinics. There will also be teaching responsibilities of the Residents and medical students. Salary and benefits commensurate with experience. Recruiting deadline June 17, 1999. Anticipated start date July 19, 1999. Please respond with curriculum vitae to: **Dr. Richard Davidson, Associate Professor, Box 100277, JHMH, Gainesville, FL 32610.** *An Equal Opportunity/Affirmative Action Employer.*

### POSITIONS OPEN

#### BIOLOGY FACULTY-IN-RESIDENCE

With benefits, for academic year 1999-2000 with strong possibility of renewal for academic year 2000-2001.

Teaching responsibilities include human anatomy and physiology I and II lecture with laboratories, primarily for physical education majors. Opportunity for teaching experience in eight-person department, undergraduate teaching mission, emphasis on liberal arts. Qualifications: Doctorate in physiology, anatomy, or related discipline required; college teaching experience preferred. Salary: \$35,000.

Keene State College, part of the University System of New Hampshire, is a public undergraduate liberal arts college of 5,000 students. Keene, a pleasant city of 22,000 with many cultural and recreational opportunities, is located in scenic Monadnock Region of southwest New Hampshire, two hours from Boston and the seacoast. Review of applications will begin on June 7, 1999, and continue until position is filled. Send cover letter, curriculum vitae, and three letters of recommendation to: **Biology, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604.**

Keene State College is a member of the Council of Public Liberal Arts Colleges, a national alliance of leading liberal arts colleges in the public sector. *As an Affirmative Action/Equal Employment Opportunity Employer, we actively seek women and minority candidates.*

#### FACULTY POSITION IN CELL BIOLOGY University of Texas Southwestern Medical Center at Dallas

The Department of Cell Biology and Neuroscience at The University of Texas Southwestern Medical Center at Dallas is seeking to appoint four exceptional scientists in the field of molecular cell biology to the position of **ASSISTANT PROFESSOR** (tenure track). The preferred candidate should have a Ph.D. or M.D. and specialize in research areas at the junction between cell and molecular biology such as molecular interactions in living cells, cellular basis of tissue organization, and spatial organization of signal transduction. The excellence of the individual candidate will take precedence over the area of special interest. The successful candidate will join an internationally recognized cell biology faculty at a top-rated medical institution and receive both a competitive salary and an exceptional start-up package. In addition, the candidate will be able to design their own laboratory space. Applicants should submit a curriculum vitae, the names of three references, and a brief description of their research goals to: **Dr. Richard G. W. Anderson, Chair, Department of Cell Biology and Neuroscience, The University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9039.** *The University of Texas Southwestern Medical Center is an Equal Opportunity Employer.*

#### FACULTY POSITIONS IN CELL AND DEVELOPMENTAL BIOLOGY

The Department of Cell and Developmental Biology at Oregon Health Sciences University is soliciting applications from candidates with an active research interest in fundamental mechanisms of cellular and developmental biology. Tenure-track or tenured appointments will be made at all levels, depending on qualifications and experience. Current research strengths of the Department include development, neurobiology, cellular trafficking, cell signaling, transcriptional regulation, and cancer biology. Successful applicants will be expected to participate in medical school and graduate school education. Please submit applications including a curriculum vitae, a statement of research accomplishments and future plans, and the names, addresses, and telephone numbers of three references to: **Bruce Magun, Ph.D., Chair, Department of Cell and Developmental Biology, Oregon Health Sciences University, L215, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098.**

Applications will be considered until the positions are filled. *Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.*



## focus on careers

# SWITZERLAND

## Life Science As An International Enterprise

**Swiss companies seek the very best life scientists — from anywhere in the world.** By Peter Gwynne

**S**witzerland is a global mecca of bioscience. Its life scientists rank first in the world in citations per individual. Some of the world's largest and most significant pharmaceutical companies, including Novartis, Roche, and the Ares-Serono Group, have Swiss headquarters. Indeed, for a country of about 7 million people with few natural resources, life science has emerged as a major source of exports.

Those exports include both pharmaceutical R&D results and life scientists at early stages in their professional lives. A government program encourages students who have completed their Bachelor's or Master's degrees to go abroad for further training. As a kind of quid pro quo, Swiss companies aim to recruit the cream of life scientists worldwide.

The country encourages collaborative life science projects. Zeneca of the United Kingdom, Hoechst of Germany, and Monsanto of the United States, for example, participate in Swiss projects involving transgenic plants. Even though Switzerland is not a member of the European Union, Swiss scientists take part in several EU projects. And officials have recently set up a local "Biovalley" among Basel, Switzerland, Strasbourg, France, and Freiburg, Germany. Because of their international nature, the lingua franca of most Swiss laboratories is English.

The Swiss government is also stimulating development of a biotechnology industry, by encouraging transfer of technology from universities to small companies. Here, representatives of a biotechnology company and a scientific institute discuss their recruitment needs.

### Modex Therapeutics

**LAUSANNE, Switzerland:** Modex Therapeutics, a biotechnology company founded in 1996 as a collaborative between Cyto Therapeutics Inc., of Lincoln, Rhode Island, and founding scientists from the University of Lausanne and the Albert Einstein College of Medicine in New York City, focuses on treatment of disorders of the endocrine and blood systems, including diabetes and anemia. It has 19 employees; about half of its 15 scientists have Ph.D's or M.D's. The firm plans to grow. However, says Ed Baetge, head of Modex Therapeutics' R&D, "we want to keep the growth controlled, and still obtain our objectives. When we need the people, we'll start looking for them, both inside and outside Switzerland."

What will the company seek in the five or so life scientists it expects to hire over the next 18 months? "What's important is that they are organized people," says Baetge. "Small biotech companies need to stay focused on key objectives. That's often hard to do for scientists."

Baetge also expects applicants to possess creativity and a pen-

chant for teamwork. "There are creative ways to get your objectives done on time," he explains. "And in a company it's more important to be involved in teamwork in some respects than to work as an individual." How can overseas scientists impress Modex? "On top of having excellent scientific credentials, it's really a desire to want to work outside where you're from," says Baetge. "And you've got to enjoy what you do."

### Friedrich Miescher Institute

**BASEL, Switzerland:** The Friedrich Miescher Institute (FMI), founded in 1970 and named after the Basel scientist who discovered nucleic acids, focuses on cancer and growth control, gene expression, molecular neuroscience, and the molecular and cellular biology of plants. Novartis, the huge pharma/agro company that resulted from mergers including the two corporations that founded FMI, supports much of the Institute's research. However, a significant proportion of FMI scientists receives outside grants. Several have joint appointments with the University of Basel.

According to group leader George Thomas, FMI provides a two-way bridge between academic research and pharmaceutical development. "We should carry out excellent science and attract good people for seminars and sabbaticals," declares Thomas.

FMI relies heavily on graduate student programs. About 80 graduate students and roughly 70 postdoctoral fellows account for the majority of scientists in the institute's 25 research groups. Like the group leaders, only one-third of whom are Swiss, the cadre of graduate students has an international tinge: roughly 80 percent come from outside Switzerland. "We try to get the best," says Thomas. "We have a rigorous application procedure. Twice a year we receive over 200 applications, and in each round we take 10 to 15 students. We expect them to be excellent, and to have some experience in the laboratory." ■



Sara C. Kozma

Members of a FMI research team. Back row, left to right: Melanie Sticker, Siniša Volarević, Nicholas Pullen, George Thomas, Anja Jaeschke. Front row, left to right: Patrick B. Dennis, Sung Hee Um

For more valuable career features, go to [www.scienceonline.org](http://www.scienceonline.org), click on **Science Careers**, then click on **Advice and Perspectives**.

A former editor of Newsweek, Peter Gwynne writes about science and technology from his base on Cape Cod, Massachusetts, USA.



## **Group Leader**



Amgen, a leading biopharmaceutical company, is seeking a self-motivated, creative individual to lead computational/structural based drug design research as part of our Small Molecule Discovery program. Amgen has made a solid commitment to a future in small molecules, providing a new state-of-the-art research facility in beautiful Thousand Oaks, located about one hour northwest of Los Angeles, California. The successful candidate will join a rapidly expanding effort in Structure and Rational Based drug design which is closely integrated to high-throughput technologies, including genomics, automation, informatics and combinatorial chemistry.

Expertise in all aspects of molecular modeling for small molecule Rational and Structure Based Drug Design is required, as well as expertise in protein modeling and structural techniques. The position requires extensive experience interacting with chemists and biologists in a project team setting, with a record of accomplishment at a major pharmaceutical company. Strong communication skills are essential, and knowledge of commercial modeling software packages a strong plus.

We also require a Ph.D. with 5-10 years experience in the pharmaceutical industry and 3 years managerial management.

We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks of vacation. Please send your resume, indicating **Ad Code 300**, to: **Amgen Staffing, P.O. Box 2569, Thousand Oaks, CA 91319-2569** or e-mail in ASCII text to: **jobs@amgen.com**. For additional information on our company and other career opportunities, visit our website at **www.amgen.com**

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Qualifications include a PhD and/or MD, at least three years of postdoctoral experience, a proven record of excellence in research, and expertise in delivery systems applied to human disease states. Knowledge in the area of GLP-facility operations would be an asset. If the successful applicant engages in direct patient care, eligibility for licensure in the Province of Alberta is mandatory.

While the selected candidate must compete successfully for salary and grant support from external agencies such as the Alberta Health Foundation for Medical Research and the Medical Research Council of Canada, bridge support will be available initially.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.

*Please submit a curriculum vitae, a summary of research interests, and two reprints of recent publications, as well as arrange to have three letters of reference sent by June 30, 1999, directly to:*

*Dr. J.H. van de Sande, Vice Dean, Faculty of Medicine, University of Calgary, 3330 Hospital Drive N.W., Calgary, Alberta, Canada T2N 4N1*



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The selected individual will be responsible for conducting pharmacokinetic studies using modern physical and chemical methods of product analysis. The position requires a recent Ph.D. in Bioanalytical Chemistry or related discipline. The appointment is for two years with the possibility of extension. Excellent oral/written communication and interpersonal skills required.

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The Institute offers excellent compensation and a great benefits package, including 401K. For immediate and confidential consideration, please send curriculum vitae's and letters of recommendation to **Peter Schultz at The Novartis Institute for Functional Genomics, 3050 Science Park Road, Suite 102, San Diego, CA 92121-1102; Fax: (619) 784-8995. EOE.**



**St. Jude Children's  
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ALBAC - Danny Thomas, Founder

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available immediately to study the function of death receptors of the TNF receptor superfamily and their signaling pathways in the chemotherapeutic response of human neoplastic diseases. The current focus of the laboratory is on the role of Fas/FasL interactions following DNA damage and downstream signaling pathways in drug-induced apoptosis and cell death in solid tumors. Studies encompass the areas of molecular and cell biology, biochemistry, and pharmacology, and include the use of cultured human tumor cell lines and xenografts in scid mice for approaches in developmental therapy. Applicants should have a recent Ph.D. degree in pharmacology, molecular biology, biochemistry, or a related discipline, or hold Pharm.D or M.D. degrees. Submit curriculum vitae with names of three references to: **Dr. Janet Houghton, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. Affirmative Action/Equal Opportunity Employer.**



# Growth through Discovery



Parke-Davis Pharmaceuticals Research, a division of Warner-Lambert, has maintained an outstanding track record of innovation through scientific research to discover drugs for unmet medical needs. Focused on the future, we continue our global success in an environment that recognizes and rewards the individual and team contributions of our diverse employees. At Parke-Davis, we not only make significant contributions to scientific research, but to vital organizations striving to make the workplace a truly equal opportunity environment. We also offer specialized programs that help our colleagues balance their careers and family lives. They include options like flextime, job-sharing, telecommuting, and access to child-care and elder-care networks. As we continue to experience rapid growth, we have the following opportunities for world-class scientists to join our state-of-the-art research facility:

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Job Code: RJB-99346

Assist the Parke-Davis DNA sequencing facility in performing high-throughput sequencing. Preparation of DNA, preparation and purification of sequencing reactions and sample loading onto ABI 377 and capillary electrophoresis DNA sequencers. Provide excellent communication and educational support to colleague inquiries. Investigate novel technologies and perform rigorous troubleshooting. Use knowledge of computers to maintain database and recordkeeping. BS degree in Biochemistry, Molecular Biology or Biology, MS degree preferred. Three to five years of experience in molecular biology laboratory techniques. Experience with DNA sequencing is preferred.

## Senior Assistant Scientist/Senior Associate Scientist

Job Code: CJM-99279

The ideal candidate will be responsible for in vivo evaluation of anticancer agents for efficacy and toxicity against murine tumors and human tumor xenografts. Experience in handling, preparing and dosing anticancer agents is required; the identification and documentation of toxicological signs is preferred. Experience in tissue culture, flow cytometry, biochemical assays, and radiation biology is highly desired. To qualify, you must have a BS or MS degree in a biological discipline with 1-7 years of related experience. Significant experience in experimental (in vivo) chemotherapy would be advantageous.

## Postdoctoral Research Fellow Biochemistry

Job Code: RJB-995981

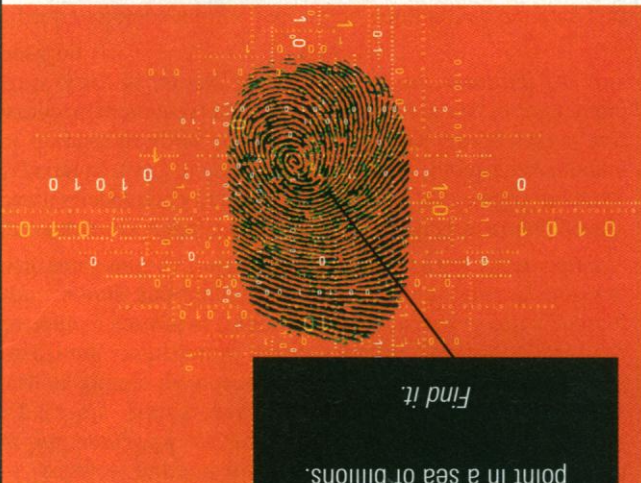
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Upstate Biotechnology, Inc., the established leader in reagents for cell signaling research, is seeking applicants for the position of Technical Support Representative. The position is located in Waltham, MA on the outskirts of Boston and is part of Upstate's Sales and Marketing division. Primary responsibilities include responding to customers' inquiries and resolving complaints about Upstate products, keeping customers abreast of trends in product usage in cell signaling applications, and supporting Upstate's sales force by working with sales staff on field sales visits and at trade show exhibits.

Interested candidates must have a M.S. or Ph.D. in a biologically-based science and a minimum of 2 years of successful laboratory experience in cell biology or a related area. Rapid understanding of diverse complex biological questions, strong verbal and written communication skills as well as the ability to collaborate with other scientists and associates are essential for this position.

Upstate Biotechnology, Inc. offers competitive salaries and comprehensive benefits. An Equal Opportunity Employer. For consideration, please send a full resume to: **Upstate Biotechnology, Inc.; Employee and Public Relations Department; Job code: Technical Support Rep - 2101; 199 Saranac Ave.; Lake Placid, NY 12946. Fax: (518) 523-1336. E-mail: nfinn@upstatebiotech.com. www.upstatebiotech.com**

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**THE BECKMAN RESEARCH INSTITUTE** at the **City of Hope**, in collaboration with USC and LA County Hospital, is pursuing studies of the immune response to opportunistic infections of AIDS patients. Reconstitution of immune function against CMV is being evaluated in a patient cohort to evaluate which HIV patients would benefit from vaccination with a novel lipopeptide molecule with activity against CMV. We have these immediate opportunities available:

### ASSISTANT RESEARCH SCIENTIST

Conduct/supervise in vitro experiments measuring immune parameters before and after vaccination with a CMV-specific lipopeptide vaccine. Ph.D. or M.D. with experience in immunology and virology of herpes viruses and/or lentiviruses is required, with a background in infectious disease mechanisms and immunopathology. (#23601-DD-SCI)

### RESEARCH FELLOW I

Identify vaccine candidates for entry into clinical trials. Test modified peptides in transgenic and immunodeficient mice using established protocols. Requires experience handling HIV infected cells and concentrated HIV supernatants, and a background in cellular immunology related to vaccine development. (#22798-DD-SCI)

### RESEARCH ASSOCIATE I/II

Ideal candidate will have 3+ years experience in murine or human cellular immunology; immuno assays, including proliferation assays, chromium release assays; and immuno-magnetic separations. Experience with herpes and/or lentiviruses is preferred. Requires a Bachelor's degree (Master's preferred), in virology or immunology. (#22797-DD-SCI)

Compensation will be commensurate with qualifications and experience. Please reference the Position # when applying, send curriculum vitae, a summary of research experience/interests, and contact information for three references to: **A. Fryhoff, Beckman Research Institute, 1450 E. Duarte Rd., Duarte, CA, USA 91010. Fax: 626-301-8843. EOE.**



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## SYMPOSIUM

### Oncogenes & Growth Control

August 18 - 22, 1999

### The Salk Institute

**Keynote Address:** Alfred Knudson

#### Sessions:

Signaling I  
Development  
Cell Cycle  
Apoptosis  
Signaling II  
Therapeutics  
Oncogenes /Tumor Suppressors

#### Organizers

T. Hunter, Salk  
I. Verma, Salk  
T. Graf, AECOM  
D. Bohmann, EMBL  
H. Land, U. Rochester

- This annual meeting is part of an ongoing series that alternates between the Salk Institute and EMBL, Heidelberg, Germany

The deadline for abstract submission is July 2, 1999. The total number of participants will be limited to 400. Registration fee is USD \$750 (includes meeting materials, accommodations, local transportation and meals). A small number of abstracts will be selected for oral presentations. There will be poster sessions.

- Information for registration can be found at  
<http://www.salk.edu/meetings.html>

Application and abstract forms can be obtained from Sheila Moles, The Salk Institute 10010 N. Torrey Pines Rd. La Jolla, CA 92037 Tel (619) 453-4100 Fax (619) 546-0838 e-mail: moles@salk.edu



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

### **MEDICAL DIRECTOR**

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

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

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

### **DIRECTOR OF DEVELOPMENT**

Great opportunity for an experienced, energetic and motivated individual to provide scientific leadership, management and vision to product development efforts to commercialize AAV based gene therapy. The Director of Development will head a department comprising 10-15 scientists engaged in scale up, purification and analytical methods development for the commercial manufacture of AAV gene therapy vectors using mammalian cell culture.

The ideal candidate will hold a Ph.D degree and will have a minimum of 10 years of relevant experience in biopharmaceutical process and methods development, including at least 5 years in a management or supervisory role. Experience in the development of pharmaceutical products derived from mammalian cell culture in a GMP environment is highly desirable and familiarity/experience with viral vector based gene therapy technology is a plus. This position will provide the successful candidate with an excellent opportunity for personal and professional growth, as part of a company at the forefront of gene therapy research.

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

### **RESEARCH SCIENTISTS**

We have opportunities for molecular virologists (preferably with backgrounds in herpes or adenovirus biology), or cell biologists, to further understand the biology of AAV with a view to designing and implementing new methods for AAV vector production. Candidates must have a Ph.D. or M.D. and at least 3 years of postdoctoral experience in a relevant field.

### **DEVELOPMENT SCIENTISTS**

Positions available for Development and Analytical Scientists, who will be responsible for process and assay development in the production of recombinant AAV vectors for clinical trials. Candidates must have a Ph.D. and at least 2 years experience in the relevant areas of purification and assay development. Experience with live virus production, GMP and small/large scale mammalian cell culture a plus.

### **PRODUCTION MANAGER**

We have an immediate opening for a Production Manager, who will be responsible for GMP production of AAV vectors for gene therapy clinical studies. Candidate must have a Masters degree, a Ph.D. is desirable, and at least 5 years progressive prior experience. Must be able to work with minimal supervision, be a self-starter and possess excellent people and organizational skills. This position offers a great opportunity for growth for the right person.

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

To apply, email/send/fax resume, specifying position of interest, to: Avigen, Inc., Human Resources, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: [sdelph@avigen.com](mailto:sdelph@avigen.com), fax: (510) 748-7155. EOE - Principals Only.





The ARS Nutrient Conservation and Metabolism Laboratory, Livestock and Poultry Sciences Institute, Beltsville Agricultural Research Center, Beltsville, MD is seeking applications for two permanent research positions; a **Research Animal Scientist (GS-11/12/13)** and a **Microbiologist (GS-11/12/13)** who will be responsible for original research as independent investigators and as team members assigned to animal manure research. The scientists will design studies to measure and evaluate the effects of various dairy farm systems on zoonotic pathogens transmitted through animal waste, particularly as they may be transmitted to food for humans as a result of dairy farm practices.

**Research Animal Scientist:** Identifies components of dairy production in various farm management systems as they affect the safety of animal manure and devises technologies to minimize the negative impact of animal waste on the environment.

**Microbiologist:** Through microbiological research, identifies strategies and decision aid tools that minimize or eliminate bacterial and parasitic pathogens of zoonotic importance which may enter the environment.

Salaries are commensurate with experience (\$40,714 – \$75,433 per annum). For information on application procedures/forms and (or) copy of vacancy announcement, **contact 301/504-1484 or <http://www.ars.usda.gov/>**. Applications in response to this advertisement should be marked ARS-D9E-9291 for Research Animal Scientist and ARS-D9E-9290 for Microbiologist and must be postmarked by June 14, 1999. *USDA, ARS is an Equal Opportunity provider and employer.*

## PRINCIPAL INVESTIGATOR, MAMMALIAN GENETICS EDISON BIOTECHNOLOGY INSTITUTE

The Edison Biotechnology Institute, Ohio University, invites applications for a senior scientist to join a unique interdisciplinary research environment. We seek an outstanding, innovative and creative scientist who utilizes modern tools and approaches to investigate genetically based human health issues. Our current strengths are in molecular, cellular, and developmental biology emphasizing transgenic and gene disruption technology, disease models and gene discovery/gene function. The successful candidate must be capable of maintaining a vigorous, creative, and independent, externally funded research program.

The Institute has a strong commitment to excellence in research, scholarship, and teaching of graduate and undergraduate students. A blend of both academic and industrial collaborations, a focus on entrepreneurship and the development of new technologies, combined with a modern facility, makes this a very unique research environment.

Applicants must have a Ph.D. or M.D., a significant history of publication and funding, and exhibit interpersonal skills that will build cooperation across departments and organizations. The position includes a faculty appointment in the Department of Chemistry and Biochemistry. Tenure will be considered for senior candidates. The appointment may start as early as July 1, 1999.

To apply, please send a curriculum vitae, a brief statement of current and future research plans and the names and addresses of at least three references to: **David C. Wight, Ph.D., Director, Edison Biotechnology Institute, Ohio University, Athens, OH 45701.**

To assist with the search, the Institute has engaged Search Masters International, an executive search firm. Inquiries may also be directed to David G. Jensen, c/o SMI, 500 Foothills South, Suite 2, Sedona, AZ 86336, (520) 282-5881 fax or email to [SMI@sedona.net](mailto:SMI@sedona.net).

For full consideration please apply by May 31, 1999. Position will remain open until filled. Additional information about the Institute can be found at <http://www.ohiou.edu/biotech/>

Ohio University is an Equal Opportunity/Affirmative Action Employer.

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY POST-DOCTORAL PROGRAM National Health and Environmental Effects Research Laboratory

The National Health and Environmental Effects Research Laboratory (NHEERL) of the U.S. Environmental Protection Agency (EPA) is seeking candidates to fill **approximately 18 federal postdoctoral research positions** during the coming year. As one of the national laboratories within the Office of Research and Development (ORD), NHEERL is EPA's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystems. NHEERL utilizes a multi-disciplinary approach to solving research problems. Assimilation and integration of information across environmental disciplines and across multiple levels of biological organizations (from molecular to the whole organism, and from the organism to the ecosystem levels) strengthen analyses of environmental issues. Several of these positions will present developmental opportunities which may be cross-organizational or cross-disciplinary; i.e., within or across NHEERL ecology or health divisions; across lab and human or ecological field studies; and across other national laboratories/centers within ORD or regulatory program offices within EPA.

Because of NHEERL's broad research mission and multi-disciplinary approach, we are seeking candidates from a wide range of disciplinary backgrounds. The preferred candidate will have earned a Ph.D. in one of the following areas (or a closely related field): biology (e.g., cellular, molecular), physiology, biochemistry, toxicology, environmental sciences, biomedical or chemical engineering, ecology (e.g., aquatic, coastal systems, coral, ecosystem, estuarine, landscape, marine, microbial), ecotoxicology, endocrinology, epidemiology, biostatistics/modeling, geographic information science, geomorphology, geostatistics, genetics, development and reproduction, immunology, pulmonology, microbiology, neurosciences, pharmacology, pharmaceutical sciences, plant physiology, population/community modeling, physical chemistry, physiology, or toxicology.

NHEERL is organized into nine divisions which are located at various geographical locations and specialize in a different field of environmental health or ecology research. Post-doctoral positions to conduct research on environmental health are anticipated for divisions located in Research Triangle Park and Chapel Hill, NC. Post-doctoral positions to conduct ecology research are anticipated for divisions located in Duluth, MN; Gulf Breeze, FL; Corvallis and Newport, OR; and Narragansett, RI. To obtain specific information on the scientific research projects proposed for the NHEERL post-doctoral positions, please visit the NHEERL Internet site at <http://www.epa.gov/nheerl> beginning **May 14, 1999**.

These positions are excepted service appointments for two to three years, and offer a salary range of **\$33,026 – \$62,260**, commensurate with qualifications. Our goal is to have successful candidates on board before October 1, 1999. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave. **United States citizens are preferred and will be given first consideration for all positions.** In the absence of qualified U.S. citizens, applications from citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens may be considered. Further information on Federal employment of non-citizens is available at <http://www.opm.gov/employ/html/citizen.htm>

The filing deadline for these post-doctoral positions is **July 9, 1999**. If you are interested, please send a curriculum vitae, a letter of recommendation from your senior research advisor, or other comparable official, and a letter indicating your research interests, preferred geographical location(s), and **country of citizenship** to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle, NC 27711, Attn: NHEERL Post-Doctoral Program. If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via Federal Express, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NHEERL Post-Doctoral Program. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Your application materials must be received in the Human Resources Office by **July 9, 1999**.

Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **September 17, 1999**.

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## Technical Service Scientist Roche Molecular Biochemicals

### Who we are

At Roche Diagnostics, the world's leading diagnostics company, we continuously strive to delight customers with quality innovative systems, products and services for the research, diagnostics and patient care markets. There are no limits to innovation at Roche Diagnostics. We are a global company whose objective is achieved through the efforts of qualified people. Individuals with a competitive spirit and commitment to Roche and its customers will be rewarded by challenging personal development opportunities.

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### Who you are

Your credentials include a Bachelor's degree in Biochemistry or Cellular Science and 3 years post baccalaureate experience in the laboratory. A Master's degree or Ph.D. would be helpful. Your computer literacy and strong verbal communication and scientific problem solving skills are a must for this position.

### Who to contact

We offer an excellent compensation and benefit program including 401(k). Qualified candidates should send a resume, including salary requirements to: **Roche Diagnostics, HR-Dept. 480368, 9115 Hague Road, P.O. Box 50457, Indianapolis, IN 46250-0457.** Principals only, please. Roche is committed to providing equal opportunity to a diverse workforce.

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## Director Of Laboratory Animal Sciences

**The Jackson Laboratory** is a world leader in mammalian genetic research and serves the global scientific community as a key provider of critical genetic resources. Already housing the world's largest repository of inbred mouse strains, our collection is growing dramatically both in diversity and volume. To assure the highest level of animal health and quality, for our own research and for that of others, The Jackson Laboratory carries on research to improve these programs and internally provides Importation and Cryopreservation Services, Pathology Services, Diagnostic Services, Veterinary Services and Quality Assurance. The **Director of Laboratory Animal Sciences** has overall responsibility for our animal husbandry research programs and for these key functions. The Director must have proven leadership and management skills, be able to work well with a wide range of people and programs, and be both visionary and pragmatic in resolving problems and helping to guide institutional growth and development. The successful candidate should have substantial research experience, and extensive knowledge of mice and the issues surrounding mouse colony management and preferably have conducted research using the mouse as a model organism. The Director should have a Ph.D. in a relevant area and a DVM/VMD degree would be desirable.

**Interested applicants may send resume to:** Human Resources, **The Jackson Laboratory**, 600 Main Street, Bar Harbor, Maine 04609. Fax: 207-288-6106. EOE

<http://www.jax.org>

## Research Associate, Molecular Genetics

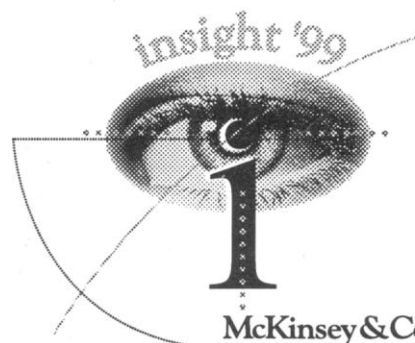
Amgen, a leading biopharmaceutical company, is seeking a Research Associate to join our Molecular Genetics department. Amgen has made a solid commitment to a future in small molecules, providing a new state-of-the-art research facility in beautiful Thousand Oaks located about one hour northwest of Los Angeles. At Amgen we enjoy the support of cutting-edge biological science and high-throughput technologies including genomics, automation, informatics and combinatorial chemistry. We encourage you to join us in our future drug discovery efforts.

This position will involve: 1) discovery and gene function analysis of novel secreted factor genes using specialized screening and molecular genetic methods; 2) evaluation of therapeutic target candidates using high-throughput technologies. Responsibilities include cloning of novel genes and functional characterization using cell-culture, gene-targeting, and transgenic methods as well as development of high-throughput assays for gene function analysis and drug target validation.

Must be a team player with a BS or MS. degree and several years of research experience in molecular biology and standard protein techniques. Requires excellent communication skills and solid technical expertise in molecular biology, including nucleic acid hybridization, PCR, RNA, cDNA library construction and screening. Candidates should also have experience in mammalian cell culture, cell transfection and be familiar with basic protein analysis method. Background in neurobiology, cancer, or signal-transduction research is preferred. Experience in computational biology and lab automation at user level is also desired.

Please mail your CV (on plain white paper using standard fonts - no bullets, italics, underlining or bold) to: **Amgen, Staffing, Ad Code: 316, P.O. Box 2569, Thousand Oaks, CA 91319-2569.** e-mail your ASCII text CV to: [jobs@amgen.com](mailto:jobs@amgen.com) Visit our website [www.amgen.com](http://www.amgen.com) Principals only, please. EEO/AA Employer M/F/D/V

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**OTOLARYNGOLOGY  
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The Center for Neuroscience, University of California, Davis, seeks applications for a tenure track, Assistant Professor position in Otolaryngology, starting in the Fall of 2000.

Ph.D. or M.D. AND AT LEAST THREE YEARS OF POSTDOCTORAL EXPERIENCE REQUIRED. WE ARE PARTICULARLY SEEKING CANDIDATES WITH RESEARCH INTERESTS IN THE STRUCTURE AND FUNCTION OF HAIR CELLS AND/OR SENSORY TRANSDUCTION MECHANISMS. The Center, housed in three research buildings and currently home to a large group of Systems/Cognitive neuroscientists, is continuing a new phase of expansion in which it expects to appoint up to 10 neuroscientists. Successful candidates will have space and facilities in the Center and primary appointments in the department of OTOLARYNGOLOGY in the UC Davis School of Medicine. They will become members of the multidisciplinary Graduate Program in Neuroscience and will be expected to develop an active funded independent research program.

Please send a curriculum vitae, statement of research interests, a list of at least three references and arrange to have letters of recommendation sent to: **Dr. Edward G. Jones, Director, Center for Neuroscience, University of California, Davis, Davis, CA 95616.** Positions open until filled, but applications should be received no later than July 31, 1999. *The University of California is an Equal Opportunity Employer.*

**Center for Neuroscience**  
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Case Western Reserve University School of Medicine is requesting applications from qualified candidates for tenure track faculty positions at the Assistant Professor level. Positions are available in the following areas: Genetic Basis for Common Diseases (Huntington F. Willard, Ph.D., Research Area Leader), RNA Processing and Metabolism (Timothy W. Nilsen, Ph.D., Research Area Leader), and Regulation of Ion Channels in Health and Disease (Antonio Scarpa, M.D., Ph.D., Research Area Leader). A Ph.D. and/or M.D. degree and relevant postdoctoral experience are required. Successful candidates will receive attractive start-up packages funded by a grant to the School of Medicine under the Research Resources Program of the Howard Hughes Medical Institute. They will have opportunities for a variety of interdepartmental collaborations involving basic and clinical sciences. Salary will be commensurate with qualifications and experience.

Case Western Reserve University is an equal opportunity/affirmative action employer. Candidates should submit a Curriculum Vitae, statement of research interests and the area to which they would like to direct their application, and the names of three references by June 7, 1999 to **Anne M. Duli, Program Administrator, School of Medicine Research Office, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4919.**

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Pierce Milwaukee, Inc.

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Minimum requirements are a Ph.D. degree in an appropriate discipline and experience in X-ray crystallographic studies of biological macromolecules, including structure determination by MIR and/or MAD phasing methods. Postdoctoral experience is preferred. A background in protein expression and purification is an advantage. Competitive salary, funded through Health Research, Inc. Send C.V., statement of research interests and accomplishments, and three letters of reference, before July 16, 1999, to:

**Dr. Patrick Van Roey**  
c/o Health Research, Inc.  
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One University Place  
Rensselaer, NY 12144-3455

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The Department is committed to an integration of genetic and molecular approaches to physiological and biophysical problems with medical relevance. The Department currently has international stature with strengths in neurocardiovascular, and gastrointestinal physiology and biophysics. The position provides a unique opportunity to define physiology in the 21st century.

Nominations or letters of interest and curriculum vitae should be sent to: **Leena Peltonen, M.D., Ph.D., Chair, Physiology Search Committee, c/o Jeanette Lim, UCLA School of Medicine, Box 951722, Los Angeles, California 90095-1722.**

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## Be an NCI Cancer Prevention Fellow

THE NATIONAL CANCER INSTITUTE (NCI) sponsors the Cancer Prevention Fellowship Program (CPFP). Its purpose is to train individuals from a multiplicity of health and biomedical science disciplines in the field of cancer prevention and control.

### What will I get out of the program?

- Master of Public Health degree
- Cancer Prevention and Control Summer Academic Course
- Mentored research at the NCI
- Brief field assignments at other institutions

Research opportunities include chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral

research, statistical and epidemiological methodology, and translational research.

### Am I eligible?

You must have a doctorate degree (MD, DDS, DO, PhD or equivalent) from a U.S., territorial or Canadian institution. Foreign medical graduates must have current USMLE or ECFMG certification. You must also be either a citizen or resident alien of the U.S. eligible for citizenship within 4 years.

### How long is the program?

Fellows are accepted for up to 5 years of training beginning in July.

### When are applications due?

Applications are due September 1, 1999 for entry into the program the following July 1, 2000.

### How do I apply?

To receive a catalog\*, contact:

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

\*Please provide home address and where you heard about the program.

### Further inquiries:

Mrs. Barbara Redding  
(301) 496-8640  
Fax (301) 402-4863  
E-mail br24v@nih.gov

Visit our Web site at:

<http://dcp.nci.nih.gov/cpfp/>

### Staff Scientist Gerontology Research Center National Institute on Aging

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, Maryland, invites applications for a staff scientist position at the Gerontology Research Center. Starting salary commensurate with qualifications and experience. The incumbent will be responsible for the animal research program, an AALAC International accredited animal care and use program. The supervisory and regulatory responsibilities of this position require the applicant to hold a veterinarian degree (D.V.M., V.M.D., or equivalent degree) with eligibility for board accreditation in both laboratory animal medicine and veterinary pathology. The applicant will provide expert supervision in routine and molecular diagnostics, veterinary pathology, surgical support, immunohistochemistry and immunopathology.

Applicants must have a record of scientific accomplishments, including excellence in laboratory research and qualifications of managing and updating the Animal Research Program.

**How to Apply:** Applicants should send curriculum vitae, bibliography, and 1,000 – word overview of a proposed program along with three letters of reference, at least two from non collaborators, to:

**National Institute on Aging  
Gerontology Research Center  
Attn: Karen L. Maben, Box 26  
Vacancy #AG 99-24  
5600 Nathan Shock Drive  
Baltimore, MD 21224**

**The deadline for applications is June 14, 1999.**  
*NIA is an Equal Opportunity Employer.*



### National Center for Biotechnology Information National Institutes of Health Taxonomist/Zoologist Position at NCBI/GenBank

The Taxonomy Project at the National Center for Biotechnology Information (NCBI) in the National Library of Medicine (NLM) is looking for a postdoctoral scientist with a minimum of 3 years of experience in metazoan systematics.

Familiarity with the principles of phylogenetic systematics and knowledge of the rules of nomenclature are strongly desired. The successful candidate will be required to devote 50% of her/his time to the work associated with maintaining the taxonomy database. This includes familiarity with current literature on classification systems, maintaining contact with outside taxonomy consultants, and verifying and adding new names to the existing taxonomy database. The other 50% of the time will be available for independent research.

The initial salary for a scientist in the NIH Intramural Research Training Program (IRTA) with three years post-doctoral experience will be between US\$ 30,000–36,000 depending on qualification. The initial appointment will be a commitment for two years and could be extended. A health care package is offered as part of the postdoctoral appointment.

Applications can be sent via mail, e-mail or faxed to the address below.

Detlef D. Leipe, Ph.D.  
Chair, Search Committee  
NCBI (GenBank)  
National Library of Medicine  
NIH, Building 38A, Room 8N807 E-mail: [leipe@ncbi.nlm.nih.gov](mailto:leipe@ncbi.nlm.nih.gov)  
8600 Rockville Pike Phone: 301-435-5999  
Bethesda, MD 20984, USA Fax: 301-480-9241

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, sexual orientation, physical or mental handicap, age, or membership or non-membership in an employee organization.

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**CELL ENGINEERS  
Nuclear Receptor Project**

We are currently seeking several Scientists to join our multi-disciplinary functional analysis team involved with the Nuclear Receptor Project for Therapeutic Target Discovery. Individuals will explore the biological processes regulated by orphan members of the nuclear receptor super-family. Responsibilities will include the design, derivation and construction of cellular models for testing novel, receptor-selective chemical tools to elucidate the role of orphan nuclear receptors in human physiology and disease.

**SENIOR LEVEL SCIENTIST OPENINGS** require a Ph.D. in Molecular Biology, Cell Biology, or a related field. Experience in mammalian cell culture techniques, cell immortalization strategies and prokaryotic and eukaryotic expression systems is highly desirable, as is knowledge of nuclear receptor and transcription factor biology. Excellent organizational, computer and oral/written communication skills are required. Must have the ability to work in a team and matrix-based environment. **Refer to Job ID # 7198.**

**ASSOCIATE/RESEARCH SCIENTIST OPENINGS** require a BS in Molecular Biology with 2 years relevant experience in cloning and sub-cloning procedures; or an MS in Molecular Biology. Experience with mammalian cell culture techniques and cell immortalization strategies is desirable. Excellent organizational, computer and oral/written communication skills are required. Must have the ability to work in a team and matrix-based environment. **Refer to Job ID #7194.**

**POSTDOCTORAL FELLOW  
Bioanalysis & Drug Metabolism**

Selected candidate will work with a team representing various functions and disciplines, including drug disposition, pharmaceuticals, medicinal chemistry, chemoinformatics and structural chemistry. Responsibilities will include the implementation/validation of existing computer models and refining new and existing 3-D P450 models to incorporate structural information from in-house efforts and literature reports. Requires a Ph.D. in Chemistry, Biochemistry, or a related discipline with relevant training in 3-D computer modeling of macromolecules with modern tools and software. Experience in the area of cytochrome P450 biology and/or drug metabolism is desired. Candidate must have excellent oral/written communication skills with the ability to interact well with others in a matrix environment. **Refer to Job ID #7118.**

Glaxo Wellcome offers competitive salaries and a comprehensive benefits package. In addition, our location in Research Triangle Park, NC, the world's largest planned research center, offers access to three major universities, outstanding cultural activities and a superb quality of life.

*For more information and to apply online,  
please visit our web site at [www.glaxowellcome.com](http://www.glaxowellcome.com)  
Search for Job ID# (noted above) under Employment Opportunities.*

If you are unable to apply online, resumes may be faxed to: (919) 315-1053. If you are unable to fax, please mail to: Job ID# \_\_\_\_\_, Glaxo Wellcome Inc., HR-Sth-E2440B, P.O. Box 13398, Research Triangle Park, NC 27709. Be sure to reference the Job ID# on all faxed or mailed correspondence. (No phone calls or agency referrals please). **An Equal Opportunity Employer M/F/D/V**

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Website:  
[www.glaxowellcome.com](http://www.glaxowellcome.com)

Job Line:  
(919) 483-2565

**National Institutes of Health  
National Eye Institute**

A postdoctoral position is immediately available in the Laboratory Ocular Therapeutics, National Eye Institute, for the study on the role of capillary cells in the development of diabetic microangiopathy. The research will be focused on the effects of various growth/survival factors on the signal transduction and gene expression of capillary pericytes that regulates pericyte survival under various stress environments induced by hyperglycemia and/or hypoxia. Candidates with experiences in molecular biology and cell biology are encouraged to apply. The salary range, dependent on experience, is \$27,500 - \$38,000. U.S. citizens, permanent residents or foreign nationals may apply by sending a CV and list of references to **Dr. Sanai Sato, LOT/NEI, 10 Center Dr., MSC 1850, Bethesda, MD 20892-1850. E-mail: [sanai@helix.nih.gov](mailto:sanai@helix.nih.gov)**

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**National Institutes of Health  
National Eye Institute**

The Laboratory of Ocular Therapeutics of the National Eye Institute has two fellowship position available for chemists to join a team in the isolation, characterization and identification of naturally occurring enzyme regulators in human and animal tissues. The position is available immediately. The incumbent should have a Ph.D. degree and postdoctoral experience in HPLC and Mass Spectroscopy for the characterization and identification of proteins, polypeptides and biochemical intermediates. Experience on a Finnigan LCQ Benchtop system is beneficial. The salary range, dependent on experience, is \$30,000 - \$50,000. U.S. citizens, permanent residents of foreign nationals may apply by sending a CV and list of references to **Dr. Peter F. Kador, Chief, Lab. Ocular Therapeutics, 10 Center Drive MSC 1850, NIH, Bethesda, MD 20892-1850 Tel. 301-496-6993. FAX 301-402-2399. E-mail [kador@helix.nih.gov](mailto:kador@helix.nih.gov)**

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## DIRECTOR,

### DIVISION OF TRANSFUSION TRANSMITTED DISEASES

Food and Drug Administration  
Center for Biologics Evaluation and Research  
Office of Blood Research and Review

The Center for Biologics Evaluation and Research, Office of Blood Research and Review, Division of Transfusion Transmitted Diseases, Bethesda, Maryland is searching for a candidate for the position of Director, Division Transfusion Transmitted Diseases. As Director, the incumbent provides expert advice on transfusion transmitted diseases and the pertinent regulations governing blood transfusion products marketed in the United States and is responsible for: maintaining scientific and regulatory programs relevant to the control of infectious risks through donor screening procedures and methods of preparation of blood and blood components, source plasma and related components intended for use in transfusion or in the manufacture of other injectable blood products; maintaining scientific and regulatory programs for the evaluation and standardization of in vitro diagnostic tests used to assure the safety of blood products or otherwise intended for AIDS-related testing; directing research programs in retroviruses, hepatitis and other viral, bacterial, fungal or parasitic infections relevant to transfusion medicine; providing technical scientific review and/or consultation on applications for products/devices designed for controlling infectious risks of blood products; and for expert consultation on infectious safety of plasma derivatives; directing scientific and regulatory programs to address emerging potential infectious threats to the blood supply.

#### QUALIFICATIONS:

##### All applicants: Must be U.S. OR NATURALIZED CITIZENS

Applicants must be able to evaluate the safety, efficacy and public health significance of blood products, demonstrate leadership and managerial ability, and deal effectively with government and industry officials and representatives of the scientific and academic communities. They must also have a M.D. or Ph.D. degree with subsequent training in Hematology, Chemistry, Microbiology, Pharmacology, Nephrology, Ophthalmology, Surgical Ophthalmology and/or Otolaryngology and professional experience or directly related postgraduate education in general surgery or related disciplines.

**Physicians:** Applicants must have a Doctor of Medicine or equivalent degree from an institution and additional clinical and/or research training. Graduates of foreign medical schools must submit a copy of their permanent Education Commission Of Foreign Medical Graduates (ECFMG) certificates.

**Scientists:** (other than M.D.) Applicants must have an advanced degree in one or more of the following: chemistry, immunology, molecular biology or related field and additional research training in a related field.

**Location:** Laboratories and offices are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland.

#### Salary:

**Physicians:** Salary range for candidates for civil service positions at the GS-15 is \$79,757 to \$102,185 per annum. In addition, physicians may also be eligible for a Physicians Comparability Allowance up to \$20,000 per annum OR Physician Special Pay up to \$148,000 based on experience, qualification, and medical specialty.

**Scientists:** (other than M.D.) Civil Service salary range for the GS-15 is \$80,658 to \$104,851 per annum. Salary, benefits research support, and level of responsibility are commensurate with education and experience. Position may also be filled by appointment in the U.S. Public Health Service, Commissioned Corps, with commensurate salary and benefits.

**HOW TO APPLY:** Please contact Ms. Feemster at 301-827-3008  
FDA/Center for Biologics Evaluation & Research  
1401 Rockville Pike, HFM-310  
Rockville, Maryland 20852-1448  
Attention: Ms. Feemster

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### NATIONAL EXPOSURE RESEARCH LABORATORY

The U.S. Environmental Protection Agency's National Exposure Research Laboratory in Research Triangle Park, North Carolina, is seeking qualified candidates to fill a variety of senior Human Exposure Measurements and Modeling research positions. The selected Principal Investigators will plan and conduct high priority human exposure measurements and modeling research in support of the Agency's Particulate Matter (PM), Food Quality Protection Act (FQPA), Dermal/Non-Dietary Ingestion, Biomarker, Pesticides and Persistent Bioaccumulative Toxics (PBTs), National Human Exposure Assessment Survey (NHEXAS), and Air Toxics programs.

#### Human Exposure Measurements Scientist (GS 13/14/15)

Primary responsibilities include: developing exposure measurements study designs; planning/conducting exposure field studies; analyzing, validating and interpreting exposure results; and reporting the results in the peer reviewed scientific literature.

#### Human Exposure Modeling Scientist (GS 13/14/15)

Primary responsibilities include: developing and validating personal and population exposure and dose models; statistically analyzing available multimedia exposure data; developing inputs and exposure factors to multimedia exposure models; integrating microenvironmental pollution and multimedia exposure data with demographic and cohort-specific time-activity data; and reporting the study results in the peer reviewed scientific literature.

#### Environmental Statistician/Modeler (GS 13/14/15)

Primary responsibilities include: conducting multipathway human exposure modeling research; conducting time activity and survey questionnaire research; and performing statistical analysis of multimedia, multipathway environmental measurement, human exposure, and exposure and physical factors data collected by various ORD field studies.

#### Statistician (GS 13/14/15)

Primary responsibilities include: developing statistical techniques for assessing exposures to environmental pollutants; developing statistically-defensible field exposure study designs/surveys; and analyzing, interpreting, and reporting environmental measurement, human exposure, time activity, and exposure and physical factor data collected by various ORD field studies.

Multiple full-time positions with full benefits (relocation expenses, health/life insurance, retirement, and vacation/sick leave) are anticipated to be filled with a salary range from \$56,951 to \$102,907 based on documented qualifications. **U.S. citizenship is required.** Candidates must meet the U.S. Office of Personnel Management qualifications requirements including specific educational coursework. Potential candidates are requested to submit their resumes documenting their past and current exposure assessment research, national and/or international recognition as a human exposure researcher, scientific publications, and other special qualifications to: **Ms. Dianne Dean, US EPA, HEAB/HEASD/NERL, MD-56, Research Triangle Park, NC 27711, no later than July 2, 1999.**

*The U.S. EPA is an Equal Opportunity Employer.*



## IMAGING RESEARCH INC.

### CELL BIOLOGIST IMAGE ANALYSIS APPLICATIONS

Imaging Research Inc. is a software and instrument developer, located on the campus of Brock University in the scenic Niagara peninsula. We develop advanced imaging technologies for drug discovery, genomics, and other areas of life science. Imaging Research is a member of the Amersham Pharmacia Biotech family of companies, and functions as an R&D center of excellence for APBiotech's worldwide operations.

We are seeking a creative scientist, familiar with the use of cellular imaging techniques, to evaluate cell functions. Deep competence in fluorescence techniques (practical and theoretical) is essential, as are excellent writing skills. At Imaging Research, you will work with a team of scientists, engineers, and software developers in creating assays, protocols, and documentation for cell-based assays. There is an opportunity for the right candidate to take on intellectual leadership of this project.

Imaging Research offers interesting work, an informal and research-oriented environment, and competitive remuneration. St. Catharines is an attractive and pleasant place to live, with the benefits of a smaller town but close to Toronto and other urban centers. Please mail or fax your resume, including references to:

Peter Ramm, Ph.D.

**IMAGING** RESEARCH INC.

500 Glenridge Avenue

St. Catharines, ON, Canada, L2S 3A1

Fax: 905-685-5861

pramm@spartan.ac.brocku.ca

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### BEAMLINE SCIENTIST

#### Whitehead Institute/MIT Advanced Photon Source Argonne, Illinois

The Whitehead Institute for Biomedical Research seeks qualified candidate to manage the installation and operation of a new state-of-the-art X-ray synchrotron beamline at the APS, Argonne National Labs. Responsibilities include project management for installation of beamline, beamline commissioning and operations management. Requires a Ph.D. and a minimum of three years' related experience. Must have substantial experience at synchrotrons, as well as strong computer, technical, organizational and interpersonal skills. Position is located in Argonne, Illinois.

**We offer excellent salaries, generous benefits (including tuition reimbursement), and interaction with an outstanding structural biology community at the Whitehead Institute and MIT.**

**Please mail or fax resumes to: Whitehead Institute for Biomedical Research, Human Resources Dept. Ref. JRNL499, Nine Cambridge Center, Cambridge, MA 02142; Fax: (617) 258-6294.**

**Visit our web site at: [www.wi.mit.edu](http://www.wi.mit.edu).**

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### MAYO CLINIC POSTDOCTORAL POSITION AND

#### SENIOR RESEARCH TECHNOLOGIST I POSITION

Molecular virology laboratory with research projects that include fundamental studies on retroviral entry, retroviral assembly, and endogenous retroviruses, is seeking highly motivated individuals to fill postdoctoral and senior research technologist I positions. Both positions require proficiency in advanced molecular biology and tissue culture techniques. Research experience in virology is highly desirable. Postdoctoral applicants must have a recent Ph.D. degree. Technologist applicants must have at least a four-year bachelor degree in a biology-related field, and a minimum of two years experience in a relevant research setting. Highly competitive salaries with full benefits are available to the successful candidates. Send a letter of application, curriculum vitae, and names of three references to:

Mark J. Federspiel, Ph.D.  
Molecular Medicine Program  
Mayo Clinic

200 First Street, SW  
Rochester, MN 55905

E-mail: [federspiel.mark@mayo.edu](mailto:federspiel.mark@mayo.edu)

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



The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, oceans, forests, lakes, and trails are all within walking distance. If you're looking for a more natural environment, this could be the opportunity you've been searching for.

### SENIOR PROFESSIONAL BIOMEDICAL TECHNOLOGIST

There is a regular, full-time Senior Professional Biomedical Technologist position available as lead technician in the Cell Biology/Microinjection Service. Successful candidate should have an MS or Ph.D. in a relevant field, at least 5 years experience in producing gene targeted and transgenic mice, and supervisor experience. Duties will include supervision of the service's staff and daily operations, user consultation, ES cell culture and cloning techniques, blastocyst and pronuclear DNA microinjection, aggregation chimeras, surgical techniques and extensive mouse colony maintenance. In addition, interpersonal communication skills are critical. This is a customer based service position requiring dependable personnel capable of interacting with a variety of users, of varying backgrounds with broad service needs. Accurate interpretation of what is communicated by customers is essential for carrying out experimental protocols on a fee for service basis. The service's Lead technologist must be able to understand user needs and clearly articulate to users what is necessary to complete a task, what time lines are involved, what materials and controls are necessary. Exceptional organizational skills are essential.

**Please reply in confidence to:** The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04606-1500, Attention: Human Resources, fax (207) 288-6106 or e-mail to [jobs@jax.org](mailto:jobs@jax.org). EOE/AA Employer

<http://www.jax.org>

Robert W. Franz Cancer Research Center  
Earle A. Chiles Research Institute  
Providence Portland Medical Center  
Portland, Oregon  
[www.franzcancer.org](http://www.franzcancer.org)

The Robert W. Franz Cancer Research Center needs to fill several positions to support recent growth and new federal grant funding. The Center's focus is on the immunology of melanoma, renal cell, and breast cancer, with prostate cancer to be added summer '99. The goal of our research is to translate promising laboratory findings into new therapies for patients with cancer, with an emphasis on vaccine development.

### Chief, Immunological Monitoring Laboratory

Opportunity for novel research into human immune responses to gene-modified tumor vaccines. Successful candidate should have a Ph.D. and/or M.D. with proven ability to direct an immunological monitoring laboratory with experience managing technical laboratory personnel. Applicant will be responsible for directing the immunological analyses of samples obtained from the peripheral blood and draining lymph nodes from patients treated in a very active cancer vaccine program. Applicant should have extensive experience in the performance of in vitro immunologic assays, particularly measures of T-cell function. Experience in the preparation of cell products for infusion into patients enrolled on immunotherapy trials would be beneficial. Opportunity for collaboration with other Laboratory Chiefs and clinical researcher for protocol design and assessment of immunological endpoints.

### Postdoctoral Fellows (2 positions available)

Outstanding opportunity for two candidates to participate in state-of-the-art immunotherapy program. Applicants will investigate mechanisms that regulate the induction of type 1 and type 2 antitumor immune responses in murine models and in patients on clinical vaccine trials. They will develop strategies that polarize antitumor responses and determine whether they improve therapeutic efficacy. Opportunities to identify and isolate the subpopulation of tumor-specific T-cells in tumor vaccine draining lymph nodes of patients who have been vaccinated with gene-modified cells from patients with renal cell cancer, melanoma, and breast cancer.

### Research Associate

Successful candidate will participate in the preparation of cancer vaccines for patients on clinical trials. Applicant will participate in sophisticated immunological monitoring of patients on immunotherapy trials. Assays to include the following measures of T-cell activation: cell-mediated cytotoxicity, ELISPOT, and tetramer analysis. Prior experience in cell culture, flow cytometry, and ELISA analyses is required.

Send curriculum vitae and letter stating research goals to: Walter J. Urba, M.D., Ph.D., Director, Franz Cancer Research Center, Earle A. Chiles Research Institute, Providence Portland Medical Center, 4805 N.E. Glisan Street, 5F40, Portland, OR 97213, Fax (503) 215-6841. EOE



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### Director, Board on Agriculture & Natural Resources

The National Research Council is seeking a Director for its Board on Agriculture and Natural Resources. The Board on Agriculture and Natural Resources is a major source of expertise and analysis of issues and problems arising in agricultural sciences and technology. It convenes balanced groups of experts, serving pro bono, who consider scientific and policy issues in agriculture, food systems, and related environmental science and their applications to public policy with the objective of preparing advisory reports to government and the broader agricultural community.

The Board Director is responsible for the overall performance of these activities and for providing staff advice to NRC management on policy issues and studies. Responsibilities include working closely with the Chairman and members of the Board to develop appropriate program activities and establish priorities for the work of the Board. The Director is responsible for initiation, development, planning, management, and coordination of all of the Board's program activities, including fund-raising and budget management.

Requirements include a Ph.D. or equivalent in Agricultural Science and related disciplines, and a minimum of 6 years directly related experience in agricultural sciences and policy issues. Excellent interpersonal skills and communication skills, both written and oral, are also required. A demonstrated ability to interact with sponsors and potential sponsors to secure and maintain funding is highly desirable.

The NRC offers a generous salary and benefits package including paid relocation to the Washington, DC area. Please send resume in confidence, to:

National Research Council  
(SW/GR-146)  
2101 Constitution Avenue, NW  
Washington, DC 20418  
Fax: (202) 334-1746  
E-mail: [ohrresum@nas.edu](mailto:ohrresum@nas.edu)  
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**[www.nas.edu](http://www.nas.edu)**

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INSTITUTE OF MEDICINE



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## POSITIONS OPEN

### ASSISTANT, ASSOCIATE, OR FULL PROFESSOR IN REPRODUCTIVE BIOLOGY

The Department of Veterinary Biosciences of the University of Illinois College of Veterinary Medicine at Urbana/Champaign invites applications for an Assistant, Associate, or Full Professor in reproductive biology.

Qualified applicants must have the Ph.D. Postdoctoral experience is preferred. Prior teaching experience is also desirable.

The successful candidate should plan to develop an independent research program. Participation in a well-established NIH-funded campus reproductive biology program will be expected. The successful candidate will participate in teaching reproductive physiology in the veterinary medicine curriculum and in graduate instruction. In addition, the successful candidate will be expected to develop an externally funded research program that complements reproductive biology research within the department.

Appointment will be on a full-time tenure-track (nine-month) basis to begin January 1, 2000, or until position is filled. Salary and rank are negotiable and commensurate with experience.

Qualified applicants are invited to submit a letter of intent, professional curriculum vitae, and names and addresses of three references to: **Dr. Paul Cooke, Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois, 2001 South Lincoln Avenue, Urbana, IL 61802. Telephone: 217-333-6825.** In order to receive full consideration applications should be received by August 1, 1999.

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

### ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY

The Department of Pathology of the School of Dental Medicine, University of Pennsylvania is seeking an Oral Pathologist for a full-time, tenure-track faculty position at either the Assistant or Associate Professor level. Major responsibilities include didactic teaching of oral pathology to predoctoral and postdoctoral students, professional service activities (biopsy service), and scholarly activities. The candidate(s) must have a D.M.D. or D.D.S. and be Board-eligible or Board-certified in oral and maxillofacial pathology. The successful candidate will participate in the teaching program of the Department of Pathology, which includes teaching of general and oral pathology to dental students, as well as demonstrate the willingness to participate in basic and/or clinical research. Applicants should send a letter that includes a statement of research interests, curriculum vitae, and bibliography. The candidate should also include a list of three references. The completed application should be sent to:

**Dr. Bruce J. Shenker**  
Professor and Chair  
Department of Pathology  
School of Dental Medicine  
4010 Locust Street  
Philadelphia, PA 19104-6002

*Penn is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from qualified females and minorities.*

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT/ASSOCIATE PROFESSOR/PROFESSOR** in the Department of Medicine, Division of Cardiology. M.D. degree, Board-certified/Board-eligible in cardiology. The responsibilities will include patient care in the Shands Hospital Cardiology Clinics; also provide care for patients located in our off-campus office. This position will provide teaching to the cardiology Residents and medical students. Salary and benefits commensurate with experience. Recruiting deadline May 20, 1999. Anticipated starting date July 1, 1999. Please reply with curriculum vitae to: **C. Richard Conti, M.D., Eminent Scholar, Division of Cardiology, Box 100277 JHMHC, Gainesville, FL 32610.**

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF PLANT ECOLOGY POSITION #706

Ramapo College, a public, barrier-free institution offering Baccalaureate and selected Master's degrees, approximately 25 miles from New York City, is committed to global education. On-site child care is available.

We are seeking an Assistant Professor of plant ecology (one-year appointment renewable on a year-to-year basis for a maximum of three years). Teaching assignments, all undergraduate, will include general ecology (200 level), ecosystems (400 level), environmental studies (100 level), and at least two of the following 300-level courses: wetlands, biological conservation, field botany. Participation in student advisement is required in this position; Ph.D. or A.B.D. with imminent completion date (June 2000) and college teaching experience are required. Start: September 1, 1999.

Since its beginning, Ramapo College has had an intercultural/international mission. Please tell us how your background, interest, and experience can contribute to this mission, as well as to the specific position for which you are applying. **Website: <http://www.ramapo.edu>.** Review of résumés will begin June 1, 1999. Qualified persons should send letter of application, résumé, and a list of three references to:

**Dr. Eric Karlin, Search Committee Chair**  
School of Theoretical and Applied Science  
Ramapo College of New Jersey  
Department 25  
505 Ramapo Valley Road  
Mahwah, NJ 07430

"New Jersey's Public Liberal Arts College"

Ramapo College is a member of the Council of Public Liberal Arts Colleges (COPLAC), a national alliance of leading liberal arts colleges in the public sector.

*Equal Employment Opportunity/Affirmative Action.*

### DIVISION DIRECTOR NATURAL RESOURCES AND ENVIRONMENT

The USDA Cooperative State Research, Education, and Extension Service (CSREES) seeks a qualified candidate to serve as Division Director for the National Research Initiative Competitive Grants Program Natural Resources and Environment Division. Candidates must have an advanced degree with major study in a natural resources related discipline such as natural resource management, forestry, ecology, ecosystem science, environmental sciences related to agriculture, etc. Applicants also should have supervisory experience. *Candidates must be U.S. citizens* and it is preferable that they have a Ph.D. degree or equivalent experience.

Closing date is July 6, 1999. Applicants must address the Quality Ranking Factors listed in the vacancy announcement. Contact: **Dr. Sally Rockey, Telephone: 202-401-1761; e-mail: [srockey@reeusda.gov](mailto:srockey@reeusda.gov)** for more information. Application procedures and forms are available from: **The Human Resources Division, Telephone: 202-720-6130; website: <http://www.reeusda.gov/hrd/99-106.htm>.** *USDA is an Equal Opportunity Employer.*

We are seeking an outstanding individual with a Ph.D., D.V.M., M.D., or equivalent advanced degree to work with an established well-funded group of Investigators in the host-defense properties of the lung and basic mechanisms of oxidant injury to ion channels in alveolar cells. Experience with development and utilization of transgenic animals is highly desirable. Individuals with independent funding will be eligible for appointment as **RESEARCH ASSISTANT PROFESSOR** of anesthesiology and encouraged to establish an independent research program in these areas of research. Applicants should send curriculum vitae to: **Dr. Sadis Matalon, The Department of Anesthesiology, The University of Alabama at Birmingham, 619 South 19th Street, THT 940, Birmingham, AL 35233. FAX: 205-934-7437; e-mail: [sadis.matalon@ccc.uab.edu](mailto:sadis.matalon@ccc.uab.edu).** *An Affirmative Action/Equal Employment Opportunity Employer.*

## POSITIONS OPEN

**ASSISTANT PROFESSOR.** Turfgrass pathology. The University of Wisconsin-Madison seeks applicants for a full-time, 12-month tenure-track faculty position: 60 percent research, 40 percent extension. Qualifications include a Ph.D. in plant pathology or allied field. The appointee will develop an innovative, extramurally funded research and extension program leading to economically and environmentally sound approaches to control turfgrass diseases and participate in educational and service programs of the University. Previous experience in turfgrass pathology is not required. Research experience and future direction could be in any aspect of plant pathology. This position offers rich opportunities to work in an interdisciplinary environment with outstanding field research facilities. Send current curriculum vitae, complete undergraduate and graduate transcripts, statements of both research and extension interests, and three letters of recommendation to: **Dr. W. R. Stevenson, University of Wisconsin-Madison, Department of Plant Pathology, 1630 Linden Drive, Madison, WI 53706. Telephone: 608-262-6291; FAX: 608-263-2626; e-mail: [wrs@plantpath.wisc.edu](mailto:wrs@plantpath.wisc.edu).** File review will begin by July 1, 1999, and continue until a suitable candidate is found. *UW is an Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF SASKATCHEWAN BIOLOGY DEPARTMENT

Applications are invited for a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of plant taxonomy/biodiversity. This joint appointment with the Department of Plant Sciences involves research and teaching in plant taxonomy and curatorship of the Fraser Herbarium. Candidates should have a minimum of a Ph.D. degree and preferably teaching and postdoctoral experience.

Applications due September 1, 1999, to take effect on January 1, 2000. Send curriculum vitae and the names, addresses, and telephone/FAX numbers of at least three referees to: **Chair, Selection Committee, Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan S7N 5E2 Canada. Website: <http://www.usask.ca/biology>.** *The University of Saskatchewan is committed to Employment Equity.*

University of Florida seeks a **CLINICAL ASSISTANT PROFESSOR** in the Department of Medicine, Division of Nephrology. M.D. degree, Board-certified/Board-eligible in nephrology. A full-time non-tenure-track position with the responsibilities of patients' care in the Outpatient Clinic. Advise and instruct Residents and medical students. Main focus will be on renal transplantation and clinical research. Salary and benefits commensurate with experience. Recruiting deadline June 17, 1999. Anticipated starting date July 19, 1999. Please reply with curriculum vitae and cover letter to: **Charles Wingo, M.D., Department of Medicine, Box 100224 JHMHC, Gainesville, FL 32610.** *Affirmative Action/Equal Opportunity Employer.*

Tennessee State University invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level beginning in the fall 1999. Applicants should have a Ph.D. in biochemistry or a related field (A.B.D. in progress minimum for Assistant Professor). For more information, visit our website: <http://www.tnstate.edu/ohr/jobs.html>. To apply for a position, submit a letter of application, résumé, and three letters of reference to: **Tennessee State University, Office of Human Resources, 3500 John Merritt Boulevard, Nashville, TN 37209.** Application deadline: open until filled.

### RESEARCH POSITION IN GASTROENTEROLOGY

The Gastric Research Group, Department of Surgery seeks a Ph.D. or M.D. with expertise in gastric physiology related to cell secretion and proliferation. Applicants should possess communication skills and experience in cellular and molecular biology. Salary is negotiable. Submit curriculum vitae to: **I. Modlin, M.D., Ph.D., Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520. E-mail: [imodlin@ct2.nai.net](mailto:imodlin@ct2.nai.net).**





**Laboratory of  
Clinical Studies,  
National Institute  
of Alcohol Abuse  
and Alcoholism,  
NIH**

**Predoctoral (Intramural Research  
Training Award) Position**

The primary focus of the Laboratory of Clinical Studies, Primate Unit, is the investigation of the neurobiological basis of individual differences in behavior. Animal models are used to study various features of normative development and psychopathology. Daily systematic sampling of behavior using objective behavior coding systems allows the laboratory to link interindividual differences in biological activity and neurotransmitter functioning with phenotypic expression of behavior traits.

The applicant will join a research team of 5 – 10 other students, post docs, and technicians researching behavior and neurobiology. The primary laboratory is located in Poolesville, MD at the NIH Animal Center. Stipend is available and is competitive with similar fellowships. Applicants should submit a curriculum vitae, statement of research interests, and three letters of reference to **Dr. J. Dee Higley, NIH Animal Center, PO Box 529, Building 112, Poolesville, MD 20837**. Deadline for applications is **June 1** or until position is filled. Address queries to [higleyd@lce.nichd.nih.gov](mailto:higleyd@lce.nichd.nih.gov).



Applicants are invited for a postdoctoral position in behavioral psychopharmacology in the Primate Unit of the National Institute on Alcohol Abuse and Alcoholism. Projects are within an established program assessing genetic and environmental contributions to the neurobiology of addiction and psychopathology. Neuroimaging and molecular genetic investigations are ongoing. Candidate must be willing to work as a team member, while developing an independent program. Applicants should submit a curriculum vitae, statement of research interests, and three letters of reference to **Dr. J. Dee Higley, NIH Animal Center, PO Box 529, Building 112, Poolesville, MD 20837**. Deadline for applications is **June 15** or until the position is filled. Salary commensurate with experience.

Address queries to  
[higleyd@lce.nichd.nih.gov](mailto:higleyd@lce.nichd.nih.gov).

## Your Future Is In Sight

Alcon Laboratories, Inc., a wholly-owned subsidiary of Nestlé, S.A., is a \$2 billion global leader in the discovery, development, manufacture, and marketing of the most complete line of pharmaceuticals, medical devices, and instruments in the ophthalmic field. Our primary customers include ophthalmologists and optometrists around the world. In the next five years, Alcon will invest \$1 billion in eye-related research, focusing on the causes, treatments and prevention of ophthalmic disorders. Since its founding over 50 years ago, Alcon's mission continues to be the preservation and restoration of vision. Alcon was recently named to the *Fortune* "List of the 100 Best Companies to Work for in America."



### Senior Scientist - Ophthalmology Toxicology

**Position Responsibilities:**

- Oversee the day-to-day operations of assigned ophthalmology toxicology projects.
- Design, implement, conduct and report GLP-related toxicology studies in support of products under development.
- Ensure overall compliance of the unit with appropriate regulations (GLP, ISO9000, etc.).
- Perform specific procedures to evaluate drugs under consideration for development.
- Prepare technical reports for submitted evaluations.
- Prepare toxicology sections of regulatory submissions (IDES, PMAs, INDs, NDAs, CTNs and CE marks) to support clinical investigations and marketing applications.

Qualifications include a Ph.D., in toxicology or pharmacology, plus three years of experience conducting GLP, preclinical toxicology studies within the pharmaceutical industry, contract laboratory or similar setting. The finalist will have highly refined writing, project management, collaboration, and prioritizing skills. A working knowledge of international regulatory safety/toxicology guidelines is helpful. Preference will be given to candidates with direct experience in ophthalmology toxicology.

Our professionals enjoy a state-of-the-art environment along with industry-competitive salaries and excellent benefits, including medical/life/dental/vision insurance and a very generous profit sharing trust plan. Our 150-acre headquarters campus is located in Fort Worth, Texas, renowned for its warm climate, favorable cost of living, no state income tax, and a variety of educational, recreational, and cultural attractions, all part of the Sunbelt lifestyle. Please send your resume and current salary requirements to: Alcon Laboratories, Inc., Placement & Development, T1-3 (SSOT), P.O. Box 6600, Fort Worth, TX 76115. Or fax to (817) 551-4629 and reference (SSOT). Or e-mail to [helena.lofin@alconlabs.com](mailto:helena.lofin@alconlabs.com) and reference (SSOT). Please visit Alcon at [www.alconlabs.com](http://www.alconlabs.com). An Equal Opportunity Employer, M/F/D/V. Pre-employment drug testing.

**Alcon**<sup>®</sup>  
LABORATORIES

*More Than Meets The Eye*

## OPPORTUNITIES IN SWITZERLAND



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

The Swiss Federal Institute of Technology Lausanne  
(EPFL) invites applications for a position of

### Assistant Professor of Atmospheric Photochemistry

**for the Department of Rural Engineering  
(Institute of Environmental Engineering)**

We are seeking an outstanding personality who will establish a vigorous research and teaching program in one of the following areas: novel measurement techniques for atmospheric physical and chemical parameters; development of regional atmospheric photochemical models to optimize air pollution abatement strategies and predict regional effects of global change. Excellent candidates in related areas will be considered. Education (undergraduate and graduate level teaching) will constitute an important responsibility; the position requires teaching talents and the capacity to guide students and young researchers. Industrial experience is a strong advantage.

Deadline for registration: August 6, 1999. Starting date: upon mutual agreement. Please ask for the application form by writing or faxing to: Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH-1015 Lausanne, Suisse, fax nr. +41 21 693 70 84. For further information, please consult also URL: <http://www.epfl.ch>, <http://dgrwww.epfl.ch/>, <http://admwww.epfl.ch/pres/profs.html>, <http://research.epfl.ch/>

## POSITIONS OPEN

The University of Michigan Department of Ophthalmology and Visual Sciences is seeking to add to its faculty a **RETINA SUBSPECIALIST**. This practice opportunity will be split between the Kellogg Eye Center, Veteran Administration Hospital, and other off-site affiliated practices. Rank at the **ASSISTANT, ASSOCIATE, or PROFESSOR** level based on the individual's academic qualifications. Applicants must be certified by the American Board of Ophthalmology, must have taken subspecialty Fellowship training in retina, and must have demonstrated interest and experience in patient care, education, and research. Individuals interested in this position should submit their curriculum vitae and bibliography to: **Paul R. Lichter, M.D., F. Bruce Fralick, Professor and Chairman, Department of Ophthalmology and Visual Sciences, The University of Michigan, W. K. Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105.** *The University of Michigan is an Equal Opportunity and Affirmative Action Employer and actively seeks diversity in its applicant pool.*

### DIRECTOR OF MOLECULAR CARDIOLOGY Case Western Reserve University and University Hospitals of Cleveland

The Department of Medicine seeks applications or nominations for the James T. Wearn Chair and Director of Molecular Cardiology. The successful candidate will have an outstanding established research program in basic cardiovascular investigation and should be eligible for appointment at the level of Professor of Medicine at Case Western Reserve University. Please send résumés to: **Richard A. Walsh, M.D., Chairman, Department of Medicine, Case Western Reserve University, University Hospitals, 11100 Euclid Avenue, Cleveland, OH 44106. E-mail: raw19@po.cwru.edu.** *Case Western Reserve University and University Hospitals Health System are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.*

The USDA Small Business Innovation Research (SBIR) program seeks a qualified **BIOLOGIST** to serve as **PROGRAM DIRECTOR** for grants administration. Candidates must have an advanced degree with major study in some area of biology. Candidates with expertise in biologically oriented agricultural engineering are encouraged to apply. *Candidates must be U.S. citizens and it is preferable that they have a Ph.D. degree or equivalent experience.*

Closing date is July 6, 1999. Applicants will be evaluated against Quality Ranking Factors that are detailed in the vacancy announcement. For information on the position, contact: **Dr. Charles F. Cleland, Telephone: 202-401-6852; e-mail: ccleland@recusda.gov.** For information on application procedures/forms, contact: **The Human Resources Division, Telephone: 202-720-6130; website: <http://www.recusda.gov/hrd/99-091.htm>.** *USDA is an Equal Opportunity Employer.*

### PROJECT SCIENTIST MAMMALIAN GENOTYPING SERVICE

The Marshfield Medical Research Foundation seeks applications for a Doctorate-level Project Scientist within the NHLBI-funded Mammalian Genotyping Service headed by **James Weber**. The successful candidate will supervise 20 Technicians and will be responsible for development and incorporation of new polymorphism screening technology. This position is an outstanding stepping stone for those seeking careers in genomics. At least two years of postdoctoral research experience preferred. Send curriculum vitae and three reference letters to: **Mary Treichel, Marshfield Clinic, 1000 North Oak Avenue, Marshfield, WI 54449. Telephone: 800-782-8581, ext. 75596; FAX: 715-389-4889; e-mail: treichel@mflcln.edu.** *Marshfield Clinic is an Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans.*

## POSITIONS OPEN

### SCIENTIST/TOXICOLOGIST

The International Life Sciences Institute, a worldwide nonprofit, scientific foundation, seeks a **SENIOR SCIENTIST** for its Risk Science Institute. Applicants must be broadly trained in toxicology with expertise in human health and/or ecological risk assessment. The position requires a Ph.D. in toxicology or related biological science and three-plus years of professional experience. The successful applicant will work with scientists from diverse disciplines on a wide range of fundamental issues in risk assessment. Responsibilities include conceptualizing and developing projects, organizing and staffing technical workgroups, evaluating and analyzing scientific data, drafting and editing manuscripts, and identifying and soliciting funding support for projects. Position level and salary commensurate with experience. To be considered, send detailed résumé, publication list, names and addresses of three references, and salary history to: **Human Resources, International Life Sciences Institute, 1126 16th Street N.W., Washington, DC 20036. FAX: 202-659-3859.** *Equal Opportunity Employer/Minorities/Females.*

### SALES ACCOUNT MANAGER POSITIONS

We manufacture Sorvall & Heraeus brand laboratory products, including centrifuges, incubators, clean air equipment, ovens, and freezers. We are seeking Sales Account Managers to provide sales support in Cincinnati, Detroit, Indianapolis, Seattle, and San Francisco. Customer market segments include major pharmaceutical companies and non-life science industries (chemicals, plastics, electronics, food and beverage). The successful candidate must have proven ability in account prospecting, acquisitions, management, cold calling, and selling a total solution from capital equipment to aftermarket products and consumables. Experience in the above-mentioned market segments is preferred. B.A./B.S. degree in life science, business, or marketing. Strong computer skills needed. Send your résumé, with cover letter indicating Job Code: SAM-SCI, to **e-mail: [bombac@sorvall.com](mailto:bombac@sorvall.com); FAX: 914-526-2337.** No relocation. *An Equal Opportunity Employer.*

**ASSOCIATE SCIENTIST** to participate in an NIH-funded investigation of ion channels in ovarian granulosa cells. The applicant should have a Ph.D. and postdoctoral training in reproductive physiology and/or cellular electrophysiology. Four years of funding are available. Position to start December 1, 1999, or earlier. The successful applicant will have the opportunity to develop his/her own research program and apply for independent support. Applicants should submit a curriculum vitae and contact information for three references to: **Lisa C. Freeman, Kansas State University, Department of Anatomy and Physiology, 1600 Denison Avenue VMSB 228, Manhattan, KS 66506-5602. E-mail: [freeman@vet.ksu.edu](mailto:freeman@vet.ksu.edu).** Applications will be accepted through August 1, 1999, or until a suitable applicant is found.

*Kansas State University is an Affirmative Action/Equal Opportunity Employer. Women, minorities, Vietnam veterans, individuals with disability, and other protected group members are encouraged to apply. Kansas State University encourages diversity among its employees.*

**RESEARCH ASSOCIATE** position available for a Ph.D. with training and experience in molecular biology and biochemistry. Experience in tumor suppressor gene and signal transduction pathway is highly desirable. Send application to: **Dr. Pi-Wan Cheng, University of Nebraska Medical Center, 984525 Nebraska Medical Center, Omaha, NE 68198-4525.** *UNMC is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

## POSITIONS OPEN

### SENIOR ENGINEER SOUTH FLORIDA WATER MANAGEMENT DISTRICT Everglades Systems Research Division

This position, reporting to the Director, is responsible for water quality modeling and data analysis. The successful candidate will develop, modify, and run simulation models of P (phosphorus) fate and transport in the Everglades to determine the effects of various P (phosphorus) load reduction scenarios to predict downstream water and soil P (phosphorus) concentrations, and subsequent growth of cattails and loss of periphyton mats. Incumbent will analyze and synthesize water quality data to parameterize and calibrate the models, and will develop graphical and website algorithms for display of simulation results. Ph.D. or M.S. in related engineering or water resources field and five-plus years of experience; P.E. license preferred. Strong programming skills (e.g., FORTRAN, C, C++, SAS, Oracle, HTML) and UNIX/PC experience. Florida driver's license. Job Reference #SM990880CH.

Our benefits include tuition assistance, health/dental benefits, and wellness programs. Please forward a scannable résumé including job reference # to **e-mail: [hrjobs@sfwmd.gov](mailto:hrjobs@sfwmd.gov); FAX: 561-682-5100.** You may mail résumé to: **South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33406. Job Hotline, Telephone: 800-547-2694 or 561-686-8800, ext. 6364; website: [www.sfwmd.gov](http://www.sfwmd.gov).**

*Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

The USDA-Agricultural Research Service announces a **RESEARCH ANIMAL SCIENTIST** position at West Lafayette, Indiana. The incumbent will be located on Purdue University campus and will be responsible for initiating and developing research on the effect of transportation on the behavior of food-producing animals, with an emphasis on swine. Specifically, the incumbent will initiate and develop research toward understanding the relationship between behavior, transportation stress, and pre-harvest food safety (pathogen contamination). Research outcomes will be used to identify/develop management and transportation systems that minimize or eliminate pre-harvest food safety problems and pathogenic contamination by understanding the behavior of the animal. Salary range is \$47,891 to \$74,035 per annum based on qualifications and experience. *U.S. citizenship is required.* For program information contact: **Cheryl Brown, Telephone: 765-494-9726.** For the vacancy announcement and application procedures contact: **Delisa Robinson, Telephone: 301-504-1399.** Job announcement can be accessed via the Internet, website: **<http://www.usajobs.opm.gov/wfjic/jobs/bk3508.htm>.** Incomplete applications will not be considered. Announcement Number: **ARS-D9W-9188.** Opening date: March 15, 1999. Closing date: June 24, 1999. *ARS is an Equal Opportunity Employer.*

### ALGAL PHYSIOLOGICAL ECOLOGIST

Microbial/Plant Physiologist with the USDA/ARS/SRRC, New Orleans, Louisiana. Available immediately. A permanent position to conduct research to determine the potential role of agriculturally derived nutrients in the initiation of harmful algal blooms in watershed and coastal marine environments and to understand the linkages between microbial-based processes and fish kills in nutrient-enriched waters. Immediate duties will include equipping an operable laboratory, and initiation of a research program. For additional information see announcement ARS-X9S-9252, which is available by **Telephone: 301-504-1484** or from the Internet at website: **<http://www.ars.usda.gov/afm/hrd/resjobs>.** The closing date is 15 June 1999 and the salary is between \$39,960 and \$62,260. *The U.S. Department of Agriculture is an Equal Opportunity Provider and Employer.*

**PHYSICIAN-SCIENTIST POSITION IN PROSTATE CANCER  
UROLOGIC ONCOLOGY BRANCH  
DIVISION OF CLINICAL SCIENCES  
NATIONAL CANCER INSTITUTE**

The newly established Urologic Oncology Branch, NCI is offering tenure/tenure track positions in Urologic Oncology. Candidates must be urologic surgeons who have a record that indicates potential for establishment of independent laboratory research programs in urologic malignancies with special emphasis in (but not limited to) prostate cancer. Individuals with expertise in molecular and cellular biology, molecular genetics or translational investigations are of particular interest. There are outstanding opportunities to work closely with other clinicians and basic scientists at the NCI including the Cancer Genome Anatomy Project (CGAP), the Cancer Chromosome Abnormality Project (CCAP), the Cancer Proteomics Project. Candidates must also have a commitment to, and demonstrated active interest in, clinical urologic surgery. The position carries with it a support package including technical, post-doctoral support and supplies budget are committed. Salary is negotiable and commensurate with the candidate's level of experience. Opening: May 1, 1999. Closing: July 2, 1999.

Candidates should send a letter of interest, curriculum vitae, bibliography, five letters of reference, and copies of up to three reprints and a statement of the candidate's research program. The completed application should be mailed to:

**Ronald Gress, M.D.  
Chairperson, Search Committee  
National Cancer Institute  
10 Center Dr., Bldg. 10, Rm. 2B47  
Bethesda, Maryland 20892-1501  
Telephone: (301) 496 6353  
FAX: (301) 402 0922**

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

**NIH IS AN EQUAL OPPORTUNITY EMPLOYER.**

**GLOBAL OPPORTUNITIES**

**THE CHINESE UNIVERSITY OF HONG KONG**

Applications are invited for:-

**Department of Biochemistry**

**Lecturer** (carrying the academic title of Assistant Professor or Associate Professor, as appropriate) (Ref. 99/035(665)/2) (closing date: 7 June 1999)

Applicants should have a PhD degree, with postdoctoral work or tertiary-level teaching experience in one or more of the following areas: (i) molecular biology; (ii) animal biotechnology; (iii) protein chemistry; and (iv) fermentation and bioprocessing. The appointee is required to teach courses offered by the Department of Biochemistry and the new Molecular Biotechnology Programme, as well as to establish and maintain an independent research programme. Appointment will initially be made on contract basis for up to three years from September 1999, renewable subject to mutual agreement. [Those who have responded to the previous advertisement (Ref. 98/114/2) for Lectureship at the Department of Biochemistry are under consideration and need not re-apply in this instance.]

**Annual Salary and Fringe Benefits**

Lecturer: HK\$554,280 - HK\$925,980 by 10 increments (approx. exchange rate in April 1999: £1 = HK\$12.5; US\$1 = HK\$7.75) Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full pay, medical and dental care, and where applicable children's education allowance, housing benefit for eligible appointee (subject to the rules for the prevention of double housing benefits) and a contract-end gratuity (up to 15% of basic salary).

Further information about the University and the general terms of service for teaching appointees is available at our World Wide Web homepage <<http://www.cuhk.edu.hk>>.

**Application Procedure**

Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees to the Personnel Office, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong (Fax: (852) 2603 6852) before **7 June 1999**. Please quote the reference number and mark "Application" on cover.

**GLOBAL OPPORTUNITIES**



The University of Hong Kong is one of the leading international comprehensive research universities in the Asia-Pacific region, with more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students (6,000 at postgraduate level). Research students come from more than 40 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

**Research Assistant Professorships  
and Postdoctoral Fellowships**

Applications are invited for a number of positions as Research Assistant Professor (RAP) (Ref.: RF-98/99-138) and Postdoctoral Fellow (PDF) (Ref.: RF-98/99-139), tenable preferably from 1 September 1999 or at a later date to be agreed. Appointments will be made on 2-3 year fixed-term contracts.

RAP and PDF are relatively new posts created by the University with the aim of injecting fresh impetus and vigour to the University's research enterprise, in order to complement and broaden its existing research expertise. Appointees are expected to bring in new research ideas and cutting-edge technologies.

**Research Assistant Professors:**

The main focus of a RAP's duty is research. They can however be assigned teaching duties, up to 50% of the normal teaching load. Applicants should be research active with a proven publication record. Appointments will be made usually on the first point of the 4-point salary scale HK\$43,060, HK\$46,190, HK\$49,280 and HK\$52,405 per month (approx. \$3,440, \$3,700, \$3,940 and \$4,190; sterling equivalent as at 22 April 1999). A (taxable) financial subsidy towards rented accommodation, leave, medical and dental benefits, and an allowance for children's education in Hong Kong will be offered.

**Postdoctoral Fellows:**

PDF's are expected to focus on research. Applicants should be PhD degree holders. Appointments will be made usually on the first point of the 4-point salary scale HK\$30,785, HK\$33,705, HK\$36,940 and HK\$40,500 per month (approx. \$2,460, \$2,700, \$2,960 and \$3,240; sterling equivalent as at 22 April 1999). Annual leave, medical and dental benefits will be provided.

**Where posts are held:**

RAP's and PDF's are tenable in any academic discipline that is represented within the University's nine faculties - Architecture, Arts, Dentistry, Education, Engineering, Law, Medicine, Science, and Social Sciences - or its School of Business, or other centres, institutes and units. A full listing of academic departments within faculties and other academic units, and their current research interests and direction is shown on the University's homepage at <<http://www.hku.hk/home/newpage/facinfo4.html>>.

**Procedures:**

Interested candidates are advised to contact, in the first instance, and prior to making an application, the Head of the appropriate department or other academic unit to confirm availability of posts, to obtain information about current research initiatives and activities; and to discuss informally the prospect of an appointment being made.

Applicants must submit a completed University application form, which should clearly state which position they are applying for; and in which academic discipline. Applicants who are applying for both positions should fill in two sets of application forms. They should also provide further information such as details of their research experience, publications, research proposals etc.

Further particulars and application forms can be obtained on WWW at <http://www.hku.hk/apptunit>; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: [apptunit@reg.hku.hk](mailto:apptunit@reg.hku.hk)). Closes **15 July 1999**.

*The University is an equal opportunity employer  
and enjoys a smoke-free environment*



## POSITIONS OPEN

### PLANT MOLECULAR BIOLOGIST

DNA Plant Technology Corporation, an agricultural biotechnology company focused on fruits and vegetable products, has an opening for a Plant Molecular Biologist.

We are seeking a recent Ph.D. in plant molecular biology with a minimum of three years of postdoctoral experience. Applicants should have demonstrated expertise in a wide array of molecular biological techniques including cloning, sequencing, RT-PCR, hybridization, plasmid construction, and library construction/screening.

The successful candidate will lead a small research group working toward genetic improvement of banana, in particular focused on fungal disease resistance, and will also participate in other crop improvement projects. The ability to work in a highly interactive, team environment is essential. We are particularly interested in candidates wanting to apply cutting-edge technologies to real-world, agricultural problems. We are committed to excellence in the development of high-quality, transgenic products.

Interested individuals should send the names of three references, a résumé, and cover letter referencing Position #99-06 to: **DNA Plant Technology, Attn: Human Resources, 6701 San Pablo Avenue, Oakland, CA 94608. FAX: 510-450-9366.** Visit the DNA Plant Technology Corporation's website: [www.dnap.com](http://www.dnap.com).

**RESEARCH INVESTIGATOR/LABORATORY MANAGER** to oversee 10 Investigators in the area of protease-dependent extracellular matrix remodeling. Emphasis on inflammation, angiogenesis, and tumor invasion (*Cell* 95:365, 1998; *JBC* 271: 9135-9140, 1996; *Nature* 375:244-247, 1995). Must have especially strong background in sophisticated cell biology and molecular biology (including transgenics). Salary commensurate with experience. Send curriculum vitae and letters of reference to: **Stephen J. Weiss, M.D., Upjohn Professor of Medicine, University of Michigan Cancer Center, 5220 MSRB III, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0640. E-mail: sjweiss@umich.edu.**

### POSTDOCTORAL ASSOCIATE MIT

The Center for Space Research is seeking an individual to work in the Department of Chemical Engineering. The project involves the implementation of scientific requirements in the design and development of a Cell Culture Unit, which is being designed to serve as a basis for 10 years of biological research on the International Space Station. Specific project tasks will include scientific testing and evaluation of serial prototypes using a variety of cell and tissue cultures and the development of operating protocols for ground-base and space studies.

Requirements: a Ph.D. in biology or biochemical engineering and experience in the areas of cell and tissue culture and in the design and operation of laboratory bioreactors. Proficiency with basic software (e.g., Microsoft Word and Excel) required.

Interested candidates should submit a résumé and cover letter referencing Job No. 98-0798C to: **Kenneth Hewitt, MIT Personnel, P.O. Box 391229, Cambridge, MA 02139-0013.** MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.

**POSTDOCTORAL POSITION** available to study proteolytic processing of protein precursors into active peptide hormones and neurotransmitters. Projects focus on multidisciplinary approaches in molecular and cell biology, and biochemistry. Experience in expression of genes in cell lines and biochemistry is desirable. Support by NIH training grant requires U.S. citizenship or permanent residence. Send curriculum vitae, brief description of research experience, and names of three references to: **Dr. V. Hook, Department of Medicine, University of California San Diego, 9500 Gilman Drive #0822, La Jolla, CA 92093-0822. E-mail: vhook@ucsd.edu.**

## POSITIONS OPEN

### RESEARCH ASSISTANT IN GENETICS AND IMMUNOLOGY National Institute of Allergy and Infectious Diseases National Institutes of Health

A full-time permanent position exists for a **BIOL-OGIST** to help conduct genetic and immunologic studies of a recently discovered inherited human lymphocyte disorder. A Master's or Doctoral degree is preferred with a minimum of three years of bench research experience in relevant disciplines. A record of scientific accomplishment and management of laboratory facilities are important selection criteria. Must qualify at the GS-12 level. Salary ranges from \$48,796 to \$63,436.

Interested candidates should submit their curriculum vitae, a statement of career goals and research interests, and three (3) letters of recommendation. For application procedures contact: **Joann Martin, Telephone: 301-496-4634** and refer to vacancy announcement #AI-99-066.

Applications must be postmarked by June 7, 1999, and sent to: **Joann Martin, NIAID, OHRM, Building 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520. U.S. citizenship is required. NIH is an Equal Opportunity Employer.**

The University of California, Berkeley invites applications for a position as **ASSOCIATE SPECIALIST** of the Imaging Facility in the Cancer Research Laboratory, an organized research unit. The facility has two confocal microscopes, two calcium imaging microscopes, one deconvolution microscope, and is applying for funds to purchase a two-photon microscope.

Duties for Associate Specialist: Organization of this new facility, system managing of computers, user training, development of upgrades and new microscopy systems, and interfacing with research faculty on experimental design. Required qualifications: Advanced degree in biological or physical sciences, specializing in microscopy, optics, lasers, or computer graphics. Candidate should have good working knowledge of advanced methods of microscopy, such as confocal, deconvolution, and two-photon microscopy, and have facility with PC and Silicon Graphics computers, especially in image analysis. Some facility in programming preferred. Salary: minimum of \$42,660; salary commensurate with education and experience.

Send résumé and three references to: **James Allison, Director, Cancer Research Laboratory, University of California at Berkeley, 447 LSA, Berkeley, CA 94720-2751** by June 22, 1999. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### CORNELL UNIVERSITY PROGRAM IN BIOGEOCHEMISTRY AND ENVIRONMENTAL CHANGE

We seek a **POSTDOCTORAL FELLOW** to assist in development and coordination of a NSF-funded research and training program in biogeochemistry and environmental change at Cornell University. This interdisciplinary program coordinates research and training activities among several departments and units at Cornell, and includes a new laboratory for stable isotope analysis. The Postdoctoral Fellow will assist with team-taught courses, workshops, seminar series, and other training activities for graduate students and postdoctorates. We expect the successful candidate to maintain an active research program in biogeochemistry and/or environmental change, and to have strong interests in interdisciplinary research and training. Please note that due to funding agency restrictions, this position can only be filled by a person who is a citizen, national, or permanent resident of the United States. Applicants should send a statement of qualifications, curriculum vitae, and three letters of reference to: **Debbie McKane, Program Coordinator, Program in Biogeochemistry and Environmental Change, Little Rice Hall, Ithaca, NY 14853.** We will start reviewing applications for the Postdoctoral Fellow on July 27, 1999, and will continue until we find a suitable applicant. *Cornell University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.*

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Four positions are available with the faculty members and on the topics identified below. Successful candidates will benefit from an excellent training environment, and an extensive and highly interactive neuroscience community.

**German Barriónuevo:** integrated study of primate prefrontal cortex, including its intrinsic connectivity and the physiological properties of neurons and synapses.

**Jon W. Johnson:** two positions, one to study the regulation of dendritic glutamate receptors using whole-cell recordings from visualized pyramidal neurons in hippocampal slices, the second to study the function and structure of the channel of wild-type and recombinant NMDA receptors.

**Eric Klann:** study the role of superoxide in hippocampal synaptic plasticity using biochemical, electrophysiological, molecular genetic, and behavioral approaches.

Further information can be found at website: <http://www.pitt.edu/~neurosci>. Send cover letter, curriculum vitae, and names of three references to: **G.B., J.W.J., or E.K., Department of Neuroscience, 446 Crawford Hall, University of Pittsburgh, Pittsburgh, PA 15260. FAX: 412-624-9198. An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL FELLOWSHIPS MONTREAL COLLAGEN DEGRADATION IN CARTILAGE

Postdoctoral position available immediately and in the next year to work with **Robin Poole** in a research group studying the regulation of type II and IX collagen cleavage and synthesis in cartilage in growth and arthritis. Experience with molecular and biochemical methodology is essential. Experience with cell surface receptors would be an advantage. Salaries according to Canadian MRC competitive scale. Positions available up to four years.

Please send curriculum vitae with names of up to three referees to: **Robin Poole, Joint Diseases Laboratory, Shriners Hospital, McGill University, 1529 Cedar Avenue, Montreal, Quebec H3G 1A6 Canada. E-mail: rpoole@shriners.mcgill.ca.**

Princeton University. Applications are solicited for **POSTDOCTORAL POSITIONS** in the Department of Ecology and Evolutionary Biology. Areas include ecological and evolutionary genetics; speciation; molecular evolution; RNA evolution; evolutionary ecology; behavioral ecology; theoretical ecology; population and community ecology; physiology, neuroscience, and behavior; epidemiology of infectious diseases; global interactions among the biosphere, atmosphere, oceans, and climate; and conservation biology. Ph.D. required. Please send curriculum vitae, letter describing research interests, and names of three references to: **Department Manager, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ 08544.** *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL FELLOWSHIP** position is available to study novel receptors and signaling pathways that mediate stimulation of cardiac myocyte functions including contractility and cardioprotection. Cloning, transfection, and transgenic approaches will be used. Applicants must have a Ph.D. and/or M.D. with cell and molecular biology background. The laboratory is located in a new research building with extensive core facilities. Send curriculum vitae to: **Dr. Bruce Liang, University of Pennsylvania Medical Center, 956, BRBII/III, 421 Curie Boulevard, Philadelphia, PA 19104. E-mail: liangb@mail.med.upenn.edu.**

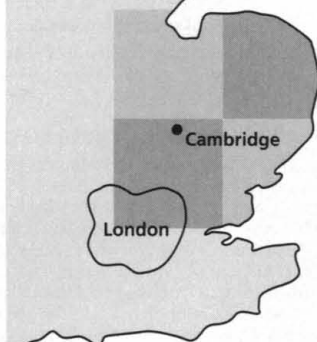
**POSTDOCTORAL POSITION** available immediately in a NIH-supported research project on lipoprotein metabolism and atherosclerosis. Experience in lipid biochemistry and cell biology preferred. Send curriculum vitae and names of references to: **Dr. P. V. Subbaiah, Rush Medical College, 1653 West Congress Parkway, Chicago, IL 60612. E-mail: psubbaia@rush.edu; FAX: 312-455-9814.**

# A Unique Partnering Event in Europe's Biotechnology Heartland

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The Eastern Region Biotechnology Initiative (ERBI) promotes commercial opportunities for the continued growth and development of first-class biotechnology companies within the region.

The ERBI Inaugural Conference will give you a unique opportunity to learn about what's happening in this fertile region and to network with the world's leading pharmaceutical and biotech companies.

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**Final Announcement  
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This conference will provide you with a unique opportunity to network and find potential partners. And if you're looking for supporting services (technology, legal, financial, marketing, recruitment) the regions major players will be there too.

Attendance is strictly limited, so if you don't want to miss out on the region's biotech event of the year, you'll need to book today.

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Eastern Region Biotechnology Initiative



## POSITIONS OPEN

**POSTDOCTORAL and RESEARCH ASSISTANT** positions available. Molecular evolution of enteric bacteriocins. This study involves a combination of molecular and phylogenetic methods to characterize the modes of evolution of enteric bacteriocins. Expertise in microbial molecular evolution and/or bacterial molecular genetics is required. Address inquiries to e-mail: [margaret.riley@yale.edu](mailto:margaret.riley@yale.edu). Addressing resistance in antimicrobial design: This study involves the use of *in vitro* evolution and protein engineering methods to create novel classes of bacteriocin molecules of potential use in human health applications. Expertise in molecular biology and/or protein design is required. Address inquiries to e-mail: [robert.dorit@yale.edu](mailto:robert.dorit@yale.edu). A curriculum vitae and the names of three references should be sent to: **Dr. Margaret Riley and Dr. Robert Dorit, Department of Ecology and Evolutionary Biology, 165 Prospect Street, P.O. Box 208106, Yale University, New Haven, CT 06511. Yale University is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL RESEARCH ASSOCIATE** position available immediately in the Department of Pathology and Laboratory Medicine to study signal transduction pathways associated with mechanisms of anti-cancer action. Candidate should have Ph.D. or M.D. and have experience in *in situ* hybridization, immunohistochemistry, and purification of nucleic acids from tissue sections. Send curriculum vitae and three references to: **H. Simpkins, M.D., Ph.D., Professor and Chairperson, Department of Pathology and Laboratory Medicine, Temple University School of Medicine, 3401 North Broad Street, Philadelphia, PA 19140. Temple University is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.**

## POSTDOCTORAL POSITIONS COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS

Two Postdoctoral positions are available to study eicosanoids in the nervous or vascular systems; neural lipid metabolism in *Aplysia* and mouse hippocampus; and regulation of leukotriene synthesis by CD-40 signaling in human endothelium. Experience with lipids, enzymology, or molecular biology helpful. Send curriculum vitae to: **Steven J. Feinmark, Ph.D., Columbia University, Department of Pharmacology, 630 West 168th Street, New York, NY 10032. E-mail: [sif1@columbia.edu](mailto:sif1@columbia.edu). We take Affirmative Action toward Equal Employment Opportunity.**

**POSTDOCTORAL POSITIONS** available to study regulation of ion channel function in smooth muscle. Studies involve elucidating the signaling pathways of receptor-ion channel coupling (*J. Biol. Chem.* 273:5337). Experience in patch clamp technique is desirable. Send résumé and names of two referees to: **Hamid Akbarali, Ph.D., Harvard Medical School, Research 151, West Roxbury VA Medical Center, 1400 VFW Parkway, West Roxbury, MA 02132. E-mail: [hakbarali@hms.harvard.edu](mailto:hakbarali@hms.harvard.edu).**

A **POSTDOCTORAL POSITION** is available to do structural and functional studies on a newly identified nucleolar RNA helicase. Applicants must have strong molecular biology background. Experience in enzymology is preferred. Send curriculum vitae and names of three references to: **Dr. Ben Valdez, Department of Pharmacology, Baylor College of Medicine, Houston, TX 77030. E-mail: [bvaldez@bcm.tmc.edu](mailto:bvaldez@bcm.tmc.edu). Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** available immediately in three areas. (1) DNA methylation and cancer. (2) NSAIDs, gene expression, and cancer. (3) Differential expression and comparative genomics in *Salmonella*. Please send curriculum vitae and the e-mail addresses of three references to: **Michael McClelland, Sidney Kimmel Cancer Center, 10835 Altman Row, San Diego, CA 92121. FAX: 619-550-3998; e-mail: [phenotypic@aol.com](mailto:phenotypic@aol.com).**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH FELLOWS

Department of Pathology and

Laboratory Medicine

Emory University, Atlanta, Georgia

Seeking Postdoctoral Fellows for the following six research programs:

Endothelial specific gene regulation. Requires background in molecular biology.

Intracellular signaling initiated by the angiotensin II receptor (AT1), a seven-transmembrane receptor.

The role of angiotensin converting enzyme (ACE) in blood pressure control and renal development.

Various aspects of antigen processing and presentation. Must have experience in immunology, cell biology, and/or molecular biology.

The molecular and regulatory basis of pathogen interactions within intestinal epithelium.

Analysis of transgenic mouse models of neutrophil migration into intestinal epithelium based on tetracycline-inducible CXC chemokine expression. Experience necessary with transgenic mouse models, immunology of chemokines, and/or cell biology of polarized epithelial cells.

All interested M.D. or Ph.D. candidates who have prior experience in a successful research laboratory are invited to send a letter of application detailing the specific areas of interest and expertise as listed above, a curriculum vitae, and names, addresses, and telephone numbers of three professional references. Apply to: **Department of Pathology and Laboratory Medicine, Emory University, 1364 Clifton Road N.E., H-185, Atlanta, GA 30322.**

Emory University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL** molecular biology and biochemistry positions currently available to study [Fe-S] protein structure and function, nitrogenase mechanism and assembly, and a novel oxidative stress system in *Azotobacter vinelandii*. The successful candidate must have a Ph.D. and have training in molecular biology and/or biochemistry preferably with metalloprotein experience. Closing date for applications: June 30, 1999. Send, FAX, or e-mail curriculum vitae, and have three letters of recommendation sent directly to:

**Professor B. K. Burgess  
Department of Molecular Biology  
and Biochemistry  
University of California, Irvine  
Irvine, CA 92697-3900  
FAX: 949-824-8551  
E-mail: [bburgess@uci.edu](mailto:bburgess@uci.edu)**

The University of California is an Equal Opportunity Employer committed to Excellence through Diversity.

## POSTDOCTORAL POSITIONS TO INVESTIGATE BIOLOGICAL FUNCTIONS OF p53 AND MDM2

Applications are invited from recent graduates for Postdoctoral positions to study functions of the tumor suppressor p53 and the human oncoprotein MDM2. Individuals with expertise in recombinant DNA technology, particularly DNA sequencing, cDNA technology, mammalian cell culture systems, and transgenic animals are especially encouraged to apply. Salary is negotiable. Send complete curriculum vitae and names of three references to: **Sumitra Deb, Ph.D. (for p53) and Swati Palit Deb, Ph.D. (for MDM2), Department of Cancer Biology, Comprehensive Cancer Center of Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1082. FAX: 336-716-0255; e-mail: [sudeb@wfubmc.edu](mailto:sudeb@wfubmc.edu) or [swdeb@wfubmc.edu](mailto:swdeb@wfubmc.edu). Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL FELLOWSHIP** available to study the mechanisms of transcriptional regulation of cellular genes by steroid and thyroid hormone receptors. Candidates must have a Ph.D., with a strong background in molecular biology and biochemistry. Send curriculum vitae and names and addresses of three references to: **Dr. Milan Bagchi at Population Council, The Rockefeller University, 1230 York Avenue, Box 273, New York, NY 10021.**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH POSITIONS

are available to study syndecan-4 as a signaling transmembrane receptor during cell-matrix interactions and in development. This cell surface heparan sulfate proteoglycan signals cooperatively with integrins in a Rho-dependent manner during cell adhesion (*PNAS* 96:2805-2810, 1999). The Postdoctoral Fellows will join an interactive team that uses a variety of cell biological and genetically engineered mice (transgenic and knockout) for these investigations. Requirements include a Ph.D. or M.D.-Ph.D. with research experience. A background in molecular biology and/or cell biology is highly desirable. Send curriculum vitae and three letters of reference to:

**Paul Goetinck, Ph.D.  
Cutaneous Biology Research Center  
Massachusetts General Hospital/  
Harvard Medical School  
MGH East, Building 149, 13th Street  
Charlestown, MA 02129 USA**

E-mail: [paul.goetinck@cbr2.mgh.harvard.edu](mailto:paul.goetinck@cbr2.mgh.harvard.edu)

The MGH/Harvard CBRC is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, disabled, and veterans are encouraged to apply.

## POSTDOCTORAL POSITIONS

The Howard Hughes Medical Institute, a leading biomedical research organization, currently has Postdoctoral positions available to study the structure and biological functions of hemostatic proteins including thrombin, thrombomodulin, and von Willebrand factor. Genetically engineered models will be exploited to investigate the role of thrombin-dependent processes in development, vascular biology, and hemostasis. Disorders of von Willebrand factor biosynthesis will be characterized that prevent normal platelet adhesion and cause von Willebrand disease.

Recent Ph.D. or M.D. graduates with experience in protein biochemistry, molecular biology, or mouse genetics are preferred. Please provide a curriculum vitae and a brief summary of research experience, and ask three references to send letters of recommendation to: **J. Evan Sadler, M.D., Ph.D., Department of Medicine, HHMI, Washington University School of Medicine, 660 South Euclid Avenue, Box 8022, St. Louis, MO 63110. E-mail: [postdoc@darwin.wustl.edu](mailto:postdoc@darwin.wustl.edu); website: [www.hhmi.org](http://www.hhmi.org). Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS** are available immediately to study the role of glycogen-associated protein phosphatases (PPIGs) in hormonal control of glycogen metabolism and cardiac muscle functions. Transgenic mice overexpressing phosphatase subunits and gene knockout mice deficient in the muscle-specific PPIG will be used to address the question of the physiological role and the regulation of the phosphatase both in cardiac and skeletal muscle. Studies in heart will address the role of the phosphatase on cardiac muscle contractility and hypertrophy. Studies in skeletal muscle will be aimed at understanding the insulin and epinephrine control of glycogen metabolism. Individuals are sought with experience in enzymology, cell biology, or molecular biology. Please send curriculum vitae and have three letters of reference forwarded to: **Anna DePaoli-Roach, Ph.D., Professor, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202. Telephone: 317-274-1585; e-mail: [adepaoli@iupui.edu](mailto:adepaoli@iupui.edu).**

## POSTDOCTORAL POSITION WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

To study molecular and genetic mechanisms of human allergic disorders, experience in molecular and transgenic techniques required. Send curriculum vitae and three references to: **Talal Chatila, M.D., Washington University School of Medicine, St. Louis Children's Hospital, One Children's Place, St. Louis, MO 63110. E-mail: [chatila@kids.wustl.edu](mailto:chatila@kids.wustl.edu). Washington University is an Affirmative Action/Equal Opportunity Employer.**





The National  
Museum of  
Science & Industry

## London

The National Museum of Science & Industry is the world's pre-eminent Museum in its field, holding the national collections of science, technology, medicine and transport. The Museum comprises the Science Museum, London, The Science Museum Library, the National Railway Museum, York and the National Museum of Photography, Film & Television in Bradford. It has a staff of 600, and an operating budget of £25 million, with a major programme of development and capital projects in excess of £65 million currently nearing completion. The Museum is governed by a Board of Trustees appointed by the Prime Minister and funded by grant-in-aid from the Secretary of State for Culture, Media and Sport, by corporate contributions and by its own commercial activities.

The Director, as Chief Executive, is responsible to the Trustees for the formulation and recommendation of policy, the implementation of that policy, the direction and management of the Museum and the promotion and representation of its

# Director of the Science Museum

Up to £100,000 according to experience

interests, as well as acting as Accounting Officer.

Candidates should have a successful record of leadership combined with the intellect, energy and integrity needed to head a large developing museum at a time of both challenge and opportunity. An understanding of the educational and cultural issues surrounding science, technology and medicine is important, together with the ability to assess strategic options and advise on policy across a wide range of areas. Experience of working with both public and private sector bodies should be combined with the capacity to lead and direct at a time when greater reliance will be placed on non-public sector sources of funding and improvements in operational effectiveness.

*Please send a full CV in confidence to GKR at the address below, quoting reference number 99037J on both letter and envelope, and including details of current remuneration. Closing date: 31st May 1999.*



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London W1X 1LA.  
Tel: 0171 534 0096. Fax: 0171 534 0001.  
E-mail: [dbruce@gkrgroup.com](mailto:dbruce@gkrgroup.com)



Active  
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## Research Scientist Tumor Biology

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Internet [www.activebiotech.com](http://www.activebiotech.com)

A research scientist position is available at Active Biotech Research AB, Lund, Sweden, for a highly motivated individual. We are seeking a candidate with a Ph.D. in the field of tumor biology.

The candidate will join a team of immunologists, molecular biologists and biochemists involved in developing novel strategies for cancer therapy, such as immunoactivating pharmaceuticals. You will lead a research group working with cell-based in vitro models to find novel mechanisms important for tumor therapy. In addition you will be responsible for the development of new concepts which will be applied in experimental systems. You should have Ph.D. and several years of experience within the field of tumor biology. An essential requirement is

experience and interest in leading and developing the skills of your staff.

In addition to these technical skills and experience, the ideal candidate will appreciate a flexible team approach, and desire to work in an entrepreneurial environment.

For more information, please contact  
Göran Forsberg, phone +46 46 19 11 54.

Closing date for application: June 2, 1999.

Please send your application, including full C.V. in confidence to:

Active Biotech Research AB

Personnel & Organisation

Att: Nils Ljunggren

P.O. Box 724, SE-220 07 Lund, Sweden.

E-mail: [nils.ljunggren@activebiotech.com](mailto:nils.ljunggren@activebiotech.com)



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The R.W. Johnson Pharmaceutical Research Institute, located in Raritan, New Jersey, conducts pharmaceutical research in therapeutic areas including anti-infectives, central nervous system, dermatology and oncology.

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As a part of the Drug Discovery team, you will assist in developing novel, anti-viral agents. In this position, you will perform protein purification, enzyme assays and conduct various experiments under limited supervision.

The ideal candidate will have a Bachelor's or Master's degree in Biochemistry, Enzymology or Virology and 2+ years of experience in a research lab. Strong computer and data processing skills are a must. Experience with tissue culture or virology assays would be beneficial.

As a valued team member, you'll receive a competitive salary and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. We strongly encourage individuals to apply on-line at [www.jnj.com](http://www.jnj.com) or forward a scannable resume, noting operating unit and Job Code: 3241, to: Johnson & Johnson Recruiting Services, P.O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer totally committed to diversity.

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### POSITIONS OPEN

Three **POSTDOCTORAL POSITIONS** are available within the Molecular Physiology and Genetics Section of the National Institute on Aging (NIH) for applicants less than five years beyond their latest advanced degree. One position involves a novel study of the mechanisms of cognitive decline as a consequence of exposure to chemotherapeutic agents in a rodent model and possible interventions to prevent this effect. A second position involves assessing age-related cognitive deficits and the effects of novel pharmacological treatments to enhance memory function in aged rodent models, including mouse models of Alzheimer's disease. Applicants with experience in behavioral neuroscience, neurotoxicology, neurotrauma, neurophysiology, or neuropharmacology will be considered. A third position involves investigation of glucose/insulin metabolism and molecular signaling regulating the anti-aging effects of long-term calorie restriction in rodents and monkeys. Applicants with experience in nutrition, physiology, primatology, and molecular biology will be considered. Prior animal research experience is essential. Contact: **Dr. Donald Ingram, National Institute on Aging, 5600 Nathan Shock Drive, Baltimore, MD 21224. E-mail: [doni@vax.grc.nia.nih.gov](mailto:doni@vax.grc.nia.nih.gov). NIH is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION CARDIAC GENE EXPRESSION/ HYPERTROPHY

The laboratory utilizes molecular techniques and transgenic mouse models, as well as knockouts, toward understanding cardiac tissue-specific gene expression and hypertrophic signaling pathways. The applicant should have a Ph.D. or M.D. and experience with molecular techniques. Please send your curriculum vitae to: **Dr. Jeffery D. Molkentin, Children's Hospital Medical Center, Division of Molecular Cardiovascular Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-5958. Children's Hospital is an Affirmative Action/Equal Opportunity Institution.**

### POSITIONS OPEN

#### POSTDOCTORAL FELLOWS MOUNT SINAI SCHOOL OF MEDICINE

Mount Sinai School of Medicine is a leader in medical research and education. Postdoctoral positions are available in a molecular hematology laboratory whose focus is on novel therapeutic approaches to the treatment of hemoglobin disorders and leukemias. Experience in molecular and/or cellular biology is desirable.

We offer a salary commensurate with experience and excellent benefits. For consideration, please send curriculum vitae and names of three references to: **Dr. George Atweh, Box 1079, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-369-8375; e-mail: [gatweh@smtplink.mssm.edu](mailto:gatweh@smtplink.mssm.edu). We are an Equal Opportunity Employer fostering diversity in the workplace.**

#### IMMUNOLOGIST/ MOLECULAR BIOLOGIST

**POSTDOCTORAL POSITION** available to study the role of MHC Class I and II molecules in AIDS virus infection of nonhuman primates. Ph.D. or M.D. with experience in molecular biology and/or cellular immunology. Send curriculum vitae and description of previous research experience to: **David I. Watkins, University of Wisconsin-Madison, Wisconsin Regional Primate Research Center, 1220 Capitol Court, Madison, WI 53715-1299. Telephone: 608-265-3380; FAX: 608-263-4031. Deadline: June 30, 1999. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.**

#### POSTDOCTORAL POSITION

Available now, in molecular mycobacteriology to develop quantitative PCR test for *M. paratuberculosis* in ruminants. Expertise in molecular biology and PCR required. Send curriculum vitae and names of three references to: **Dr. R. H. Whitlock, School of Veterinary Medicine, University of Pennsylvania, 382 West Street Road, Kennett Square, PA 19348. FAX: 610-925-8107.**

### POSITIONS OPEN

#### POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study the role of RNA-binding proteins in myotonic dystrophy and heart failure. One position is to generate and analyze knockout mice for a protein interacting with CUG expansion. Another position is to study triplet repeat instability in heart disease and aging. Applicants should hold a Ph.D. by the time the position begins. The positions require strong training in biochemistry and molecular biology. Please send a curriculum vitae to: **Lubov T. Timchenko, Ph.D., Department of Medicine, Section of Cardiology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: [lubovt@bcm.tmc.edu](mailto:lubovt@bcm.tmc.edu). Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.**

**POSTDOCTORAL POSITION** available immediately in a laboratory studying primate embryonic development, trophoblast differentiation, and placental endocrinology and immunology. Ph.D. in cellular/molecular reproductive biology and experience in DNA-protein interactions, gene transcription, or yeast hybrid cloning desired. Submit curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Thaddeus G. Golos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715-1299. E-mail: [golos@primate.wisc.edu](mailto:golos@primate.wisc.edu). Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS** in integrative research program to study cell signaling and mechanisms regulating myosin II phosphorylation and contraction of actin-based cytoskeleton. Projects involve aspects of cell biology, protein biochemistry, gene regulation, and knockout (conventional and conditional) mice. Send curriculum vitae and names of three references to: **Dr. James Stull, Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX 75235-9040. E-mail: [jstull@mednet.swmed.edu](mailto:jstull@mednet.swmed.edu). Equal Opportunity Employer.**

## THE UNIVERSITY *of York*

### CHAIR IN ECOLOGY (Ref: 7/1002)

### LECTURESHIP IN ECOLOGY (Ref: 7/3019)

Applications are invited for a Chair and Lecturer in Ecology in the Department of Biology to be held from 1 January 2000.

The Department of Biology has been a major centre of research and teaching in ecology since its inception. We seek to build on this strength by these two appointments which will complement our existing activities. Candidates with interests in fundamental aspects of ecology as applied to large-scale problems or biodiversity issues, and also those whose work is field-oriented are especially encouraged to apply.

The professorial appointment may be made in conjunction with the Stockholm Environment Institute, whose York group has international expertise in the impacts of pollutants on ecosystems and their implications for sustainable development issues.

The salary for the Chair will be within the professorial range (current minimum £35,170 per annum) and for the Lectureship within the Lecturer Grade B scale (£22,726 - £29,048 per annum).

Informal enquiries about these posts may be made to the Head of Department, Professor Alastair Fitter (ahf1@york.ac.uk). Information about the Stockholm Environment Institute can be obtained from their web site: <http://www.york.ac.uk/inst/sei/sei/welcome.html>

For further information and details of how to apply please write to the Personnel Office, University of York, Heslington, York YO10 5DD or e-mail: [jobs@york.ac.uk](mailto:jobs@york.ac.uk) quoting the appropriate reference number. The closing date for applications is 7 June 1999.



## THE UNIVERSITY *of* LIVERPOOL

### Derby Chair in the Department of Human Anatomy and Cell Biology

Applications are invited for this prestigious Chair which was endowed by the Earl of Derby in 1894, and which became vacant upon the appointment of Professor B A Wood to the Henry Luce Chair of Human Origins, George Washington University.

The Department has a strong research ethos: its current research groupings (Cellular and Molecular Pathophysiology, Cell Signalling, Molecular Mechanisms of Cell Growth and Differentiation, Evolutionary Biology) scored 5 in the 1996 Research Assessment Exercise. Applicants will be expected to have an international reputation in research in any area that complements the department's existing interests. Proven ability to fund and to direct a dynamic research programme is essential. The Derby Chair can be associated with the Headship of the Department, but appointment in a separate role is possible to suit research aspirations. The salary will be negotiable.

Interested parties are invited to contact the Dean of the Faculty of Medicine, Professor P M Johnson on 0151 706 4261, or Professor P Cobbold on 0151 794 5493, email: [P.H.Cobbold@liv.ac.uk](mailto:P.H.Cobbold@liv.ac.uk)

Quote Ref: A/519/S

Closing Date: 7 June 1999

Further particulars and details of the application procedure may be requested from the Director of Personnel, The University of Liverpool, Liverpool L69 3BX on 0151 794 2210 (24 hr answerphone) or via email: [jobs@liv.ac.uk](mailto:jobs@liv.ac.uk)

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## POSITIONS OPEN

### POSTDOCTORAL POSITIONS TISSUE ENGINEERING

Several positions are available in the Laboratory of Reporative Biology and Bioengineering of the Department of Plastic Surgery, The University of Texas M. D. Anderson Cancer Center with a tentative start date of September 1, 1999. Research areas include (1) adipose tissue engineering: development of constructs to restore breast mound following mastectomy and to support soft tissue augmentation, and (2) microvascular tissue engineering: development of capillary networks and elucidation of vascularization mechanisms to support mass transport of constructs. The aim of our laboratory is to develop clinically translatable products for reconstructive surgery that repair defects and restore deficits caused by tumor, trauma, and congenital abnormalities. Skills in cell culture technology, biomaterials, *in vivo* models, and quantitative assessment are welcome. Interested applicants should forward letter of interest, curriculum vitae, three letters of reference, and copies of key publications to: Charles Patrick, Jr., Ph.D., Director of Research, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 62, Houston, TX 77030. Website: <http://www.mdanderson.org/DEPARTMENTS/plastic>. Equal Employment Opportunity Employer. Smoke-free environment. Women and minority candidates are strongly encouraged to apply.

### MONTANA STATE UNIVERSITY THERMAL BIOLOGY INSTITUTE

**POSTDOCTORAL/GRADUATE STUDENT** positions immediately available for a multidisciplinary program examining thermophilic organisms in Yellowstone National Park. Postdoctoral candidates are sought with research experience in microbiology, virology, soil/environmental chemistry and physics, plant physiology, and/or ecology. Screening begins June 14, 1999. Send curriculum vitae, three letters of reference to: Dr. Tim McDermott, Leon Johnson Hall, Montana State University, Bozeman, MT 59717. E-mail: [timmcder@montana.edu](mailto:timmcder@montana.edu); website: <http://agadsrv.msu.montana.edu/lresclasses/TBI>. ADA/Affirmative Action/Equal Opportunity/Veterans Preference.

### POSTDOCTORAL RESEARCH ASSOCIATE

A Postdoctoral Research Associate position is available to characterize the interaction of the novel antibiotic bicyclonycin and derivatives with prokaryotic rho transcription termination factor. Applications are encouraged from individuals with a Ph.D. and strong interests in the areas of molecular biology or biochemistry and drug design. Send curriculum vitae and names of three references to: Dr. William R. Widger, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513. FAX: 713-743-8351; e-mail: [widger@uh.edu](mailto:widger@uh.edu). The University of Houston is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in bioinorganic chemistry is currently open to study (a) peptide/DNA artificial endonucleases, or (b) Zn-metalloprotein systems. Experience in protein and/or oligonucleotide chemistry preferred. Send curriculum vitae and three letters of reference to: Prof. Sonya J. Franklin, Department of Chemistry, University of Iowa, Iowa City, IA 52242. See website: [www.uiowa.edu/~chemdept/faculty/franklin/](http://www.uiowa.edu/~chemdept/faculty/franklin/). Women and minorities are encouraged to apply. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available to study molecular mechanisms underlying central nervous system injury-related neural plasticity. Experience in molecular biology or biochemistry is required. Send curriculum vitae and names of three references to: P. Dash, University of Texas Medical School, Neurobiology and Anatomy, P.O. Box 20708, Houston, TX 77225. Telephone: 713-500-5575; e-mail: [pdash@nba19.med.utmc.edu](mailto:pdash@nba19.med.utmc.edu). Equal Opportunity Employer/Affirmative Action/smoke-free.

## POSITIONS OPEN



### POSTDOCTORAL POSITIONS

NIH-funded Postdoctoral Research positions are available beginning July 1, 1999, in the Cardiovascular Disease Research Program of the newly opened state-of-the-art Biomedical/Biotechnology Research Institute at North Carolina Central University (NCCU) in Durham, North Carolina. Research projects range from basic vascular physiology including the role of perivascular nerves and extracellular Ca<sup>2+</sup> in regulation of vascular tone and smooth muscle differentiation to genetic mechanisms underlying essential hypertension. Outstanding opportunities exist for collaborative projects with cardiovascular scientists at Duke and University of North Carolina-Chapel Hill and for advancement within the Institute. Applicants should send a copy of curriculum vitae and names of three references to: Richard Bukoski, Ph.D., Director of Cardiovascular Disease Research Program, Biomedical/Biotechnology Research Institute, North Carolina Central University, Durham, NC 27707. FAX: 919-530-7998.

North Carolina Central University is a constituent institution of the University of North Carolina System and an Equal Opportunity/Affirmative Action Employer. NCCU complies with the Immigration Reform and Control Act of 1986.

**POSTDOCTORAL POSITIONS** available immediately to study the role of protein phosphorylation in cyclic GMP signaling. Candidates should have a Ph.D. with a strong background in biochemistry, molecular biology, or molecular genetics. For more information, see website: [www.usouthal.edu/pharmacology/phchinkers.html](http://www.usouthal.edu/pharmacology/phchinkers.html). Please send curriculum vitae with bibliography and the names, addresses, and telephone numbers of three references to: Michael Chinkers, Ph.D., Department of Pharmacology, University of South Alabama, College of Medicine, MSB3130, Mobile, AL 36688-0002. E-mail: [michaels@jaguar1.usouthal.edu](mailto:michaels@jaguar1.usouthal.edu). Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the molecular mechanisms of carcinogenesis/mutagenesis by environmental carcinogens. Candidates with a good background in molecular biology/biochemistry and experience in *in vitro* DNA replication, DNA repair, and tissue culture are encouraged to apply. Send curriculum vitae and names of three references to: Dr. Caroline Wei, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687; e-mail: [swei@rci.rutgers.edu](mailto:swei@rci.rutgers.edu).

### POSTDOCTORAL FELLOW RESEARCH ASSOCIATE NEUROCHEMISTRY/MOLECULAR

Funded by NIH research grant, competitive salary. Project concerns molecular cloning of neurotransmitter receptors and ion channels in the auditory/vestibular periphery. Publications in molecular biology desirable. Submit curriculum vitae, recent publications, and names of three references to: Dr. Dennis Drescher, Director, Laboratory of Bio-orology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.

**POSTDOCTORAL POSITION** to perform research in hepatic gene therapy for blood protein deficiencies. Experience in molecular biology, cell biology, or gene therapy is desirable. Applicants must be U.S. citizens or permanent residents with a Ph.D. or M.D. Please send curriculum vitae, names of three references, and one-page description of previous research to: Kathy Ponder, Department of Internal Medicine, Box 8125, Washington University Medical School, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: [kponder@imgate.wustl.edu](mailto:kponder@imgate.wustl.edu).

## POSITIONS OPEN

### PH.D. POSTDOCTORAL POSITIONS IN BREAST CANCER RESEARCH

Positions are available for Ph.D. Postdoctoral Trainees in our NIH-funded multidisciplinary research program. The Breast Research Center includes 13 established Investigators studying important areas of research including molecular characterization of estrogen receptors, molecular mechanisms of chemotherapeutic and tamoxifen resistance, genetic markers of premalignant disease, signal transduction, transcription factors, heat shock protein biology, molecular genetics, peptide growth factors, tumor suppressors and breast cancer susceptibility genes, prevention, and biomarkers in breast cancer. Minimum requirements: recent Ph.D. degree in molecular or cellular biology, and U.S. citizen or permanent resident. Stipend to be determined by NIH Fellowship guidelines. Send a curriculum vitae, letter of research interests, and names of three references to:

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FAX: 713-798-1642  
E-mail: [kosborne@bcm.tmc.edu](mailto:kosborne@bcm.tmc.edu)

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### POSTDOCTORAL POSITIONS PROTEIN CRYSTALLOGRAPHY

To study macromolecular complexes and the role of protein-protein interactions in apoptosis, integrin signal transduction, and cancer. Protein Crystallographers who are highly motivated with a strong background in protein characterization and/or molecular biology are preferred. Send curriculum vitae and the names of three references to: Dr. Kathryn Ely, Director, Molecular Anatomy of the Cell Program, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the structure and dynamics of catalytic intermediates in radical-mediated B12 enzyme reactions by using pulsed-electron paramagnetic resonance spectroscopy, with emphasis on time-resolved studies of pulsed-laser-generated states. Send curriculum vitae and names of three references to: Dr. Kurt Warncke, Molecular Biophysics Group, Department of Physics, 1001 Rollins Research Center, 1510 Clifton Road N.E., Emory University, Atlanta, GA 30322. Website: [www.physics.emory.edu/faculty/warncke](http://www.physics.emory.edu/faculty/warncke). Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available immediately to study NO-, redox-, and muscarinic-mediated modulation of L-type calcium and various potassium channels in mammalian cardiac myocytes. Individuals with training in patch clamp, molecular biological, and/or immunofluorescent techniques sought. Send curriculum vitae and names, telephone, and e-mail addresses of three references to: Dr. Donald L. Campbell, Department of Physiology and Biophysics, University at Buffalo, SUNY, 124 Sherman Hall, Buffalo, NY 14214-3078. FAX: 716-829-2344; e-mail: [dc25@acsu.buffalo.edu](mailto:dc25@acsu.buffalo.edu).

**POSTDOCTORAL FELLOWSHIP.** Sloan Kettering Cancer Center, New York City. Available July-September 1999. We are studying the pathogenesis of multiple myeloma, with particular focus on understanding the apoptotic response, and the role of myc in transforming these cells. Candidates with experience in molecular/cell biology and excellent communication skills are encouraged to apply. Contact: Dr. Andrew Bush, Telephone: 212-639-6054; e-mail: [a-bush@ski.mskcc.org](mailto:a-bush@ski.mskcc.org).

## POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available in the Laboratory of Molecular Microbiology of the National Institute of Allergy and Infectious Diseases (NIAID) at NIH to study the replication, disease-inducing properties, and immune responses of lentiviruses following infection of subhuman primates. A qualified candidate will have the unique opportunity to combine previous training in molecular biology, virology, and immunology to address fundamental questions pertaining to viral pathogenesis and vaccine development. Applicants should have a Ph.D. and/or M.D. as well as zero to five years of postdoctoral experience.

The position is available immediately for a duration of two to five years. Starting salary is dependent on previous experience and qualifications.

Applicants are requested to submit a curriculum vitae and the names and addresses of three references to: Dr. Malcolm Martin, Laboratory of Molecular Microbiology, NIAID, NIH, Building 4, Room 315, 4 Center Drive, MSC 0460, Bethesda, MD 20892-0460. FAX: 301-402-0226.

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Two **POSTDOCTORAL POSITIONS** immediately available for (i) NASA-supported studies to identify *Drosophila* *gravitaxis* mutants and (ii) studies of calcium signaling in *Drosophila*. Candidates must have a Ph.D. and a strong background in molecular biology and/or *Drosophila* genetics. Send curriculum vitae and three references to: Dr. Kate Beckingham, Department of Biochemistry and Cell Biology, Rice University, MS-140, P.O. Box 1892, Houston, TX 77251. FAX: 713-285-5154; e-mail: kate@bioc.rice.edu.

## OPPORTUNITIES IN SWITZERLAND

### POSTDOCTORAL POSITION RESEARCH SCIENTIST

Our research group discovered that cholesterol and lipid uptake at the small-intestinal brush border membrane is a protein-mediated process. The goal of the project is now to clone, isolate, and characterize proteins involved in this process.

Requirements: Ph.D. in biochemistry, molecular biology, cell biology, or related areas. Experience in protein purification and characterization and in recombinant methodology are required. Experience in cell biology or microbiology is beneficial. The position is for three years and available immediately. An extension is possible. We are looking for a highly motivated scientist who is able and willing to work in a dynamic research group on a fascinating, multidisciplinary research topic.

The project is funded by the Swiss National Science Foundation, the Kamillo Eisner-Stiftung, and several industrial organizations. The salary is negotiable and will be in the range of \$60,000 to \$80,000.

Applications with a complete curriculum vitae and the names of three referees should be sent to: Prof. Dr. H. Hauser, Institute of Biochemistry, ETH-Zentrum, Universitätsstrasse 16, 8092 Zürich.

### EU-BIOMED POSTDOCTORAL POSITION INSTITUTE OF BIOCHEMISTRY UNIVERSITY OF FRIBOURG

The Fellowship is financed by an EU BIOMED programme. The candidate is expected to construct and test steroid-regulatable reporter genes to be used to generate transgenic mouse lines that contain coherently reacting *in situ* reporters for pharmacological compounds.

Salary is around US\$45,000 per year; duration is from June 1999 to December 2000, with some possibility of extension.

Candidates can send their curriculum vitae and one letter of recommendation to the following address: Prof. Sandro Rusconi, Biochemistry Institute, University of Fribourg, Perolles 1700 Fribourg, Switzerland. Telephone: +41-26-300-8656; FAX: +41-26-300-9735; e-mail: sandro.rusconi@unifr.ch.

## OPPORTUNITIES IN SWITZERLAND

### POSTDOCTORAL POSITIONS

At the University Children's Hospital Zurich, Division of Immunology/Hematology, two Postdoctoral positions are available, funded by the Swiss National Science Foundation Research Program NRP 37 "Somatic Gene Therapy," phase II (1999-2001). Our project is aimed at clinically applicable gene therapy protocols for chronic granulomatous disease (CGD). Main topics are (1) optimization of lentivirus vectors, and (2) employment of chimeric cytokine receptors for selective expansion and differentiation of genetically modified cells. Applicants for both positions are expected to have a Ph.D. in biology with a strong background in molecular biology. Please send your application including curriculum vitae and address of at least one referee to: Johann P. Hossle, Ph.D., Division of Immunology/Hematology, University Children's Hospital, Steinwiesstrasse 75, CH-8032 Zurich. E-mail: hosslejp@kispi.unizh.ch; FAX: 41-1-266-71-71.

A **POSTDOCTORAL POSITION** to study genetics and biochemistry of the bacterial degradation of chlorinated methanes is available June 1, 1999, at the ETH Zürich. The emphasis of the work is on the genetic analysis of the pathways for the utilization of chloromethane (Vannelli et al, *PNAS* 96:4615, 1999) and dichloromethane (Mägli et al, *Appl. Environ. Microbiol.* 64:646, 1988), on enzyme characterization, and on the regulation of gene expression. Applicants with experience in molecular genetics and/or protein characterization and a background in microbiology send their curriculum vitae and the names of two references (including address, telephone, FAX, e-mail) to: Dr. Thomas Leisinger, Institut für Mikrobiologie ETH, ETH-Zentrum, CH-8092 Zürich. Telephone: +41-1-632-33-24; FAX: +41-1-632-13-85; e-mail: leisinger@micro.biol.ethz.ch.

A **POSTDOCTORAL POSITION** is available immediately to study mitochondrial genome evolution and land plant phylogeny (see: *Nature* 394:671-674). Experience in molecular genetics and/or land plant phylogenetics will be desirable. Please send curriculum vitae, names of three references (with their e-mail), and a photocopy of Ph.D. diploma to: Prof. Yin-Long Qiu, Institute of Systematic Botany, University of Zurich, Zollikerstrasse 107, 8008 Zurich, Switzerland. Telephone: 0041-1-634-8424; FAX: 0041-1-634-8403; e-mail: yqiu@systbot.unizh.ch.

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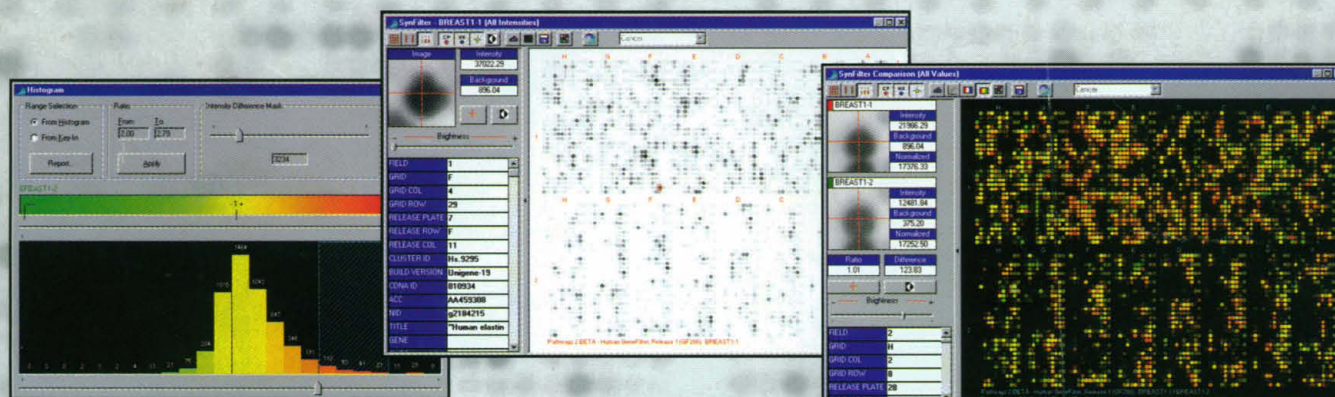
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- Ref 1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares, M.B. (1996) *Genomics* 33, 151-152.  
 2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>  
 3. <http://ratEST.uiowa.edu>

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