

# NEW PRODUCTS

## HYDROPHOBIC BARRIER PEN

The *ImmEdge Pen* is a hydrophobic barrier pen for immunohistochemistry and in situ hybridization detection methods. Designed for use with frozen or paraffin-embedded tissue sections mounted on glass slides, the *ImmEdge Pen* provides a water-repellent barrier that keeps staining reagents localized on the tissue sections, prevents mixing of reagents when differentially staining two sections on the same slide, and allows use of less reagent per section. The boundary deposited by the *ImmEdge Pen* is lightly colored and easily visible. It is insoluble in alcohol and acetone, but is removed by most clearing agents. It is compatible with all commonly used enzyme and fluorescent detection systems.

### Vector Laboratories

For more information call 650-697-3600 or **circle 144** on the Reader Service Card

## PREMADE CDNA LIBRARIES

The Discovery Line of Premade cDNA Libraries is designed to save the user time in both cDNA library screening and subsequent expression of desired genes. Libraries prepared from a variety of human normal and tumor tissues are supplied ready for plating. All cDNA molecules are cloned 5' to 3' in the mammalian expression vector pcDNA3.1 to increase the screening efficiency. Once the positive clones are isolated, the user can go directly to high-level mammalian expression without subcloning. All libraries are fully tested to ensure optimum representation.

### Invitrogen

For more information call 800-955-6288 or **circle 145** on the Reader Service Card

## PARTICLE SIZER SPECTROMETER

The Model 3320 Aerodynamic Particle Sizer spectrometer offers both time-of-flight and light-scattering measurements. The instrument can correlate these two particle measurements, providing unprecedented measurements of two different aerosol characteristics. The instrument detects particles in the 0.37 to 20  $\mu\text{m}$  range. It also provides high-resolution sizing from 0.5- to 20- $\mu\text{m}$  aerodynamic diameter. It makes use of a microprocessor-controlled volumetric

### TSI

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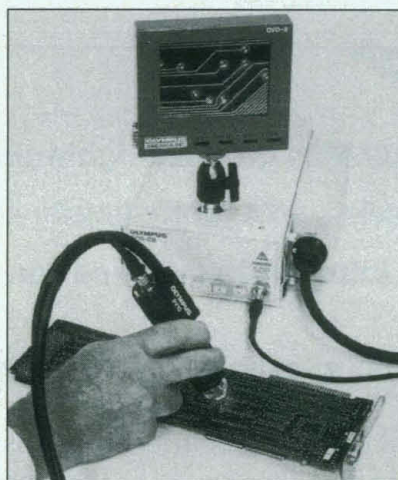
flow control with real-time barometric correction. In addition to ground-based measurements, it allows users to conduct rapid atmospheric measurements at changing elevations without time-consuming flow recalibrations. It also provides protection against distorted data by detecting and filtering coincident particle measurements out of the size distribution.

## COMPACT, PORTABLE VIDEO MICROSCOPE

The PV10 video microscope is compact, lightweight, and portable. It can be handheld and operated anywhere, including confined areas or places where no power is available. It features a wide selection of high-performance lenses for a variety of depths of field, working distances, and magnifications up to 1000 $\times$ . Both zoom and single focal-point lenses are available. Configurations include

### Olympus America

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contact and non-contact illumination heads and a shadow-free head.

## MICROPLATE SEALER WORKSTATION

The Presto Microplate Sealer Workstation delivers a polyester seal to the top surface of either a microplate or deepwell plate. It is available as either a stand-alone workstation or integrated into a robotic system. When it is used as a stand-alone system, the microplate

### Zymark

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is loaded into the plate locator and the seal application is triggered by a palm switch adjacent to the station. When used as an integrated workstation, the sealer can either seal batches of plates or seal plates sequentially as a sample preparation method is completed. It makes use of Automation Certified Plate Seals that are compatible with compounds stored in dimethyl sulfoxide down to  $-20^{\circ}\text{C}$ .

## POWERFUL MICROANALYSIS SYSTEM

The Phoenix microanalysis system offers power, speed, and simplicity. It includes the latest advances in energy-dispersive x-ray microanalysis, including digital processing, state-of-the-art PCI bus architecture, user-friendly software, the choice of Windows NT with multitasking capabilities or Windows 98, and accurate, standardless quantitative analysis. Eight processing times allow the user to achieve optimum resolution and throughput of up to 100,000 counts per second. The software makes it easy to merge data, spectra, and images into today's most popular desktop publishing and word processing programs.

### EDAX

For more information call 201-529-4880 or **circle 149** on the Reader Service Card

## SURFACE DISPLACEMENT ANALYSIS SOFTWARE

Surface Displacement Analysis (SDA) software enables visual and quantitative insight into the strain behavior of stressed materials. Designed for Windows 95, SDA provides a full field map of strain on the entire surface of a test specimen, not just between two points as measured with an extensometer. The software includes a powerful Computer-Aided Speckle Interferometry algorithm that runs 50 times faster on desktop computers than previous algorithms.

### Instron

For more information call 781-575-5000 or **circle 150** on the Reader Service Card

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.



## MAMMALIAN GENOTYPING SERVICE

Sponsored by the  
National Heart, Lung, and Blood Institute  
National Institutes of Health

The Mammalian Genotyping Service is funded by the National Institutes of Health to assist in linkage mapping of genes which cause or influence disease. Genotyping is carried out using short tandem repeat polymorphisms at Marshfield, Wisconsin under the direction of Dr. James Weber. Capacity of the Service is currently about 4,000,000 genotypes (DNA samples times polymorphic markers) per year and growing. Although the Service was initially established for genetic projects dealing with heart, lung, and blood diseases, the Mammalian Genotyping Service will now consider all meritorious applications.

To ensure that the most promising projects are undertaken, investigators must submit brief applications that are evaluated by a scientific advisory panel. At this time, only projects involving humans, mice or rats and only projects with  $\geq 10,000$  genotypes will be considered. There are no genotyping fees for approved projects. Application deadlines are every six months.

### Upcoming Application Deadlines

September 30, 1998

March 31, 1999

For Application Instructions and additional information see:

<http://www.marshmed.org/genetics>

or contact:

Beth Busscher, Center for Medical Genetics  
Marshfield Medical Research Foundation  
1000 N. Oak Avenue  
Marshfield, WI 54449

PHONE: (715) 389-3525 FAX: (715) 389-5757

EMAIL: [busscheb@mflclin.edu](mailto:busscheb@mflclin.edu)

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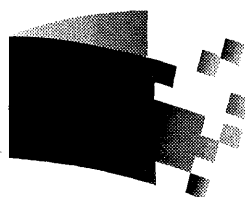
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## POSITIONS OPEN

### FACULTY POSITIONS IN NEUROSCIENCE NORTHEASTERN OHIO UNIVERSITIES COLLEGE OF MEDICINE

The Department of Neurobiology of the Northeastern Ohio Universities College of Medicine (NEOUCOM) (website: <http://www.neoucom.edu>) seeks applications for two tenure-track positions in cellular and/or molecular neuroscience. Proposed starting date of July 1, 1999, or earlier. We seek applicants at the ASSISTANT PROFESSOR level, but may consider more advanced faculty. Candidates must have a Ph.D. and/or M.D. and should have at least two years of postdoctoral research experience. Applicants must have demonstrated research productivity and the capability of establishing an externally funded research program. Current research interests in the department include sensory and auditory processing in the central nervous system, neurochemical anatomy and steroids in the nervous system, neuroimmunology, synaptic plasticity, LTP in spatial learning, and age and gender relations to neuropathic pain and opiate-induced analgesia. We seek individuals who can complement ongoing research. Opportunities for intra- and extradepartmental collaborations are excellent. Successful candidates will teach medical and graduate students an integrated neuroscience course and participate in an interdisciplinary neurosciences graduate program and develop graduate courses in their field of expertise.

NEOUCOM participates in a consortium with Kent State University, University of Akron, Youngstown State University, and eight teaching hospitals to offer combined B.S.-M.D. degrees. Basic medical science faculty participate in Ph.D. graduate programs in conjunction with the School of Biomedical Sciences at Kent State University. Graduate training opportunities in Biomedical Engineering are available in collaboration with the Institute for Biomedical Engineering Research at The University of Akron.

Applicants should send a letter of application accompanied by a curriculum vitae, a statement describing research interests, goals and plans for external support, as well as the names and complete addresses of three references by October 1, 1998. Send materials to:

Human Resources  
c/o Raymond E. Papka, Ph.D.  
Professor and Chairperson  
Department of Neurobiology  
Northeastern Ohio Universities College of Medicine  
P.O. Box 95  
Rootstown, OH 44272

NEOUCOM is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITION ARTHRITIS CENTRE OF EXCELLENCE

The University of Toronto Arthritis Centre of Excellence at The Toronto Hospital invites applications for a research position in a multidisciplinary group studying basic and clinical aspects of autoimmune rheumatic diseases. Candidates will be expected to develop or continue an active research program as part of a comprehensive research program encompassing the molecular and genetic basis of autoimmunity through to innovative therapeutics for arthritis.

A package including salary, benefits, research space, and start-up funds will be provided. Academic rank at the University of Toronto will be determined by experience and qualifications. Candidates should have an M.D. or Ph.D. or equivalent.

Interested candidates should send their curriculum vitae and the names of three references to: Dr. R. D. Inman, Director, Arthritis Centre of Excellence, The Toronto Hospital, Fp 1-221, 399 Bathurst Street, Toronto, Ontario M5T 2S8 Canada. FAX: 416-603-4348.

In accordance with Canadian Immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents of Canada.

### RESEARCH FELLOWSHIPS

The Arthritis Centre of Excellence invites applications from individuals with an M.D. or a Ph.D. or equivalent who seek research experience in the field of arthritis and autoimmunity. Subprograms include immunobiology, joint injury and disease, prognosis studies, and therapeutics. Applicants should send their curriculum vitae and the names of three references to Dr. R. D. Inman at the address above.

## POSITIONS OPEN

### FACULTY POSITION IN GEOLOGICAL SCIENCES SCRIPPS INSTITUTION OF OCEANOGRAPHY University of California, San Diego

Applications are invited for a faculty position in the geological sciences. We are seeking a candidate who will study sediments or sedimentary units with an interest in their record of environmental change, or the processes that produced them. Investigations could be conducted from a (geo)physical, chemical, or (paleo)biological perspective. We hope to fill this position at the ASSISTANT PROFESSOR (tenure-track) level, but will consider appointment at a higher level in exceptional circumstances; exact rank and salary will be commensurate with qualifications and experience in accordance with University of California academic policy and pay scales. Applicants must show evidence of excellence and independence in research as demonstrated by their publication record. A strong extramurally funded research program is expected. The position will involve teaching, supervision, and support of graduate students. The appointee will also have the opportunity to play a role in the undergraduate earth sciences degree program. Applicants must hold a doctoral degree at the time of appointment. Applications should include a detailed résumé with a description of research interests and teaching plans, a publication list, and the names and addresses of at least three referees. Send applications by October 1, 1998, to: Chair, Geological Sciences Search, Scripps Institution of Oceanography Graduate Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0208.

UCSD is an Equal Opportunity Employer/Affirmative Action Employer.

### TENURE-TRACK FACULTY POSITIONS LOUISIANA STATE UNIVERSITY MEDICAL CENTER, NEW ORLEANS Department of Biochemistry and Molecular Biology

Applications are invited for two tenure-track positions at the ASSISTANT PROFESSOR level. Applicants should have two or more years of postdoctoral experience and should have the potential for establishing an active, externally funded research program. The Medical Center is undergoing expansion with a Clinical Science Building under construction and the Stanley S. Scott Cancer Center Building in the final planning stages. The Stanley S. Scott Cancer Center, the Molecular and Human Genetics Center, and the Neuroscience Center are integral components of the University, and several faculty in the Department are members of these Centers. Interest and excellence in teaching are expected. The Department can be visited through our website: <http://www.lsumc.edu/campus/bioc/>. Interested individuals should send a curriculum vitae with a bibliography, a short (three-page) summary of planned research, and the names and addresses of three references to the following: Robert Roskoski, Jr., Fred G. Brazda Professor and Head, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1100 Florida Avenue, New Orleans, LA 70019-2799. LSUMC is an Equal Employment Opportunity/Affirmative Action Employer.

### DERMATOPATHOLOGIST SURGICAL PATHOLOGIST

The Department of Pathology, Immunology, and Laboratory Medicine at the University of Florida College of Medicine invites applications for a tenure-track faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level or a non-tenure-track position as CLINICAL ASSISTANT/ASSOCIATE PROFESSOR. Applicants should have an M.D. or D.O. degree and be Board-certified in anatomic pathology and qualified in dermatopathology. The position will be as a Surgical Pathologist with emphasis in dermatopathology and some responsibilities in surgical pathology and cytopathology. Scholarly study and investigation of dermatologic diseases is expected. Successful applicant will contribute to medical student education and to the training programs for Housestaff in Pathology and the Division of Dermatology. Salary will be commensurate with training and experience. Anticipated start date will be December 15, 1998. Applicants should send a letter of application outlining interests and a copy of curriculum vitae by November 1, 1998, along with three letters of reference to: Gregory Y. Lauwers, M.D., Search Committee Chairperson, University of Florida, College of Medicine, Box 100275 JHMC, Gainesville, FL 32610-0275.

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► **DIRECTOR OF SEQUENCING** Oversee the production operations of a large cutting-edge sequencing center focusing on gene discovery and pathway elucidation to support internal research projects. Employ state-of-the-art technology resulting in high-throughput, high quality, rapid turnaround, and efficient sequence data generation. Drive the evaluation of new technologies relevant to high-throughput sequencing. Ph.D and/or MS with 2-4 years of experience required.

► **SENIOR SCIENTIST/SCIENTIST - GENE EXPRESSION** Be responsible for gene expression technology development for high-throughput protein production, including the hands-on evaluation, selection, and implementation of gene expression systems. Also be involved in modifying and/or developing novel expression systems directed towards state-of-the-art operation. To qualify, you must have a Ph.D., plus several years of industry experience with a demonstrated track record in gene expression efforts. Outstanding skills in molecular and cell biology with demonstrated expertise in DNA vector design, construction and manipulation are essential. Experience in the high-level expression of proteins in multiple systems, including bacterial, yeast, and mammalian is a plus.

► **POSTDOCTORAL SCIENTIST - NATURAL PRODUCTS** The successful applicant will explore novel ways for the controlled production of secondary metabolites in transgenic fungi. Current work is focused on heterologous expression of fungal genes in laboratory strains. Candidates will have a Ph.D. in genetics, molecular biology or related field; creative thinking and experimental skill (e.g., generating BAC libraries) should be demonstrated by relevant publications. Knowledge of secondary metabolism and its regulation in microorganisms is a plus.

► **SENIOR SCIENTIST/SCIENTIST- HIGH-THROUGHPUT SCREENING DEVELOPMENT** Requires a Ph.D. and 2-5 years' pharmaceutical experience relating to the development and implementation of high through-put screens for drug discovery. Demonstrated broad screening expertise encompassing multiple target classes is essential. Relevant experience would include G protein coupled receptors, ion channels, proteases, kinases, or phosphatases. A thorough understanding of HTS automation and microplate technologies is required. Individual will be expected to develop novel screening methodologies, supervise their implementation, and transfer to corporate partners. Candidate will consult with gene discovery groups in a number of therapeutic areas including cardiovascular and metabolic diseases, CNS, cancer, antibacterials, and antifungals.

► **SEQUENCING PRODUCTION COORDINATOR** This individual will coordinate the activities of a 10+ member production team responsible for the following processes: DNA template preparation, sequencing reaction assembly and pooling, electrophoresis and data capture, data analysis and process troubleshooting. This individual will serve as the interface between gene discovery groups and the sequencing module as well as manage the sequencing module's production queue. Additional responsibilities include contributing to the design of software and automation systems as the development group makes process improvements, and working closely with quality control in validation and troubleshooting efforts. Requires a BS/MS in Molecular Biology, Biochemistry, Biology, Microbiology, or Genetics or equivalent. 5+ years' fluorescent sequencing experience, accompanied with strong sequencing chemistry troubleshooting skills, adept management and team playing skills, and familiarity with UNIX and Mac platforms, databases and liquid handling robotics are essential.

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## WRITER

## MEDIA RELATIONS Science Writer

Princeton University is accepting applications for a skilled science writer and publicist to cover internal and external media relations. This individual will be responsible for writing news releases and feature articles and generating public interest in the physical and life sciences. Duties include working with reporters and editors, pitching story ideas and overseeing location work by news and documentary crews.

To qualify, individual must be a strong writer and have proven editorial, administrative and interpersonal skills. Bachelor's degree required; advanced degree desirable. Extensive journalism and science reporting experience is preferred.

Princeton provides an exceptional benefits package that includes tuition reimbursement for you and your family, a generous vacation schedule, comprehensive medical insurance, an excellent retirement plan and use of various University facilities. Interested candidates should submit two copies of resume and writing samples to: **Human Resources, Req. 4807-LO, Clio Hall, Princeton University, Princeton, NJ 08544-5264.** Review of resumes will begin immediately.



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**Q**uality Biotech Inc., a ViroMed Biosafety company, has announced the opening of a new **Analytical Services Department**. The Department will provide **GLP/GMP complaint contract testing services for the biotech and pharmaceutical industry**. As a result of this expansion, we have the following opening:

## SR. STAFF SCIENTIST Analytical Services

You will be responsible for the planning and implementation of the overall testing strategy as well as assay development and validation for the Analytical Services Department. In addition, you will manage the group's technical staff, serve as Study Director and interact with clients and regulatory authorities.

Qualified candidate will have a Ph.D. in the biological or chemical sciences with 2 or more years' experience working in an analytical lab in a biopharmaceutical or contract testing environment. A strong background in GLP/GMP guidelines is highly desirable.

Quality Biotech is located in the Greater Philadelphia region - an area rich in scientific, cultural and recreational diversity. We offer excellent opportunities for professional growth, a competitive salary, relocation assistance, health benefits, and a 401(k) plan. Send c.v. and salary requirements, to: Quality Biotech Inc., Attn: HR798/R, Seetharam, 1667 Davis St., Camden, NJ 08104. FAX (609) 342-8078. E-Mail: [hr@qualitybio.com](mailto:hr@qualitybio.com) EOE M/F/D/V



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# ***Transforming Agriculture To Meet The World's Food Needs.***

**Cereon Genomics** is a collaborative start-up offering an unprecedented opportunity to impact the future of genomics technology. Our mission is clear: we are applying genomics technology to the discovery and development of agricultural products. These products will improve the quality and quantity of the world's food supply.

To realize this mission, we are developing an outstanding organization. One that cultivates creativity, innovation, performance capability and leadership. One that brings together exceptional people committed to transforming agriculture by creating new products with revolutionary genomics technology.

To fulfill our charter, we need more dedicated, high-impact performers. People who will make us even stronger. People who absolutely want to make a difference in one of today's most critically important fields.

In return, we offer the best of two worlds. We have the flexibility, excitement and collaborative environment of a start-up, plus the security and stability provided by the resources and commitment of two respected industry leaders. Monsanto provides extensive life science resources, and Millennium Pharmaceuticals contributes powerful tools and processes for genetics research.

With the urgency of our mission, we need the following:

#### ***SCIENTISTS - Physical Mapping***

Get in on the ground floor of our exciting and focused organization as we build a highly integrated research approach. Openings are available at all levels to help us develop high-resolution genetic and physical maps for agricultural crop species with a long-term view toward applying these tools to improve crops. All positions require an advanced degree with a strong background in Genetics and Molecular Biology; experience in mapping, library construction, and /or polymorphism detection is desirable.

#### ***SCIENTISTS - Discovery & Plant/Microbial Genomics***

A number of excellent opportunities exist to use your proven expertise and experience to build Cereon's gene identification and function effort for agriculturally relevant microorganisms and plants. We seek top performers with excellent communication and interpersonal skills, plus the ability to work well as part of a multidisciplinary research team. Some positions are oriented towards a molecular understanding of gene functions. Others deal with identification of quantitative trait loci. All positions require a Ph.D., or equivalent in Genetics, Microbiology, Biochemistry, Plant Biology, or related field. 2 - 3 years of postdoctoral training are essential.

#### ***SENIOR/PRINCIPAL ENGINEER - Lab Automation***

This is an excellent opportunity for a lab automation expert to build a state-of-the-art robotics facility. This optimum facility will support a high throughput screening lab designed to identify novel agricultural products. You also will interact with automation efforts in genomics, plus ensure the constant innovation of the company's automation systems. Industrial experience with integrated robotics systems (Matrix, Zymark, Saigen, Tecan, Tomtec) and workstation-based approaches (Tomtec, Platemate, Multidrop) is essential. Experience with associated data management programs (Oxford Molecular, MDL SCREEN) is a plus.

#### ***RESEARCH ASSISTANTS/ASSOCIATES***

We have a number of outstanding opportunities at both staff and senior levels for scientists to play an important role in our advanced genomics research efforts. Current areas of involvement include, but are not limited to:

- **Physical and genetic mapping**
- **Transcriptional profiling**
- **Gene discovery**
- **Functional genomics**
- **High throughput screening**

All positions require a BS/MS. Desirable are 2 - 5 years of experience, depending on individual position requirements. However, highly motivated recent graduates are also encouraged to apply. Important areas of knowledge/experience include molecular biology, nucleic acid chemistry, genetic mapping, mutant analysis, molecular biology, biochemistry, natural products analysis, and laboratory automation/computer equipment.

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Please send your resume, indicating position of interest, to: Joan Curtice, Cereon Genomics, LLC, One Kendall Square, Building 300, Cambridge, MA 02139. Fax: (617)577-3562 E-mail: [Joan.Curtice@Cereon.Com](mailto:Joan.Curtice@Cereon.Com).

Cereon Genomics is an Equal Opportunity Employer, proudly reflecting the natural diversity of the world around us.



# SCIENTIST

## Downstream Processing

Megabios Corporation is a progressive biotechnology company using proprietary gene delivery systems & preclinical development expertise to create gene-based therapeutics for the treatment & prevention of genetic and other diseases. All Megabios programs are aimed at utilizing gene therapy technology and Megabios' proprietary non-viral delivery systems. Our continued growth has created an excellent opportunity for a detail-oriented scientist to join our interdisciplinary R&D team.

In this hands-on position, you will develop, run and troubleshoot processes to purify plasmid DNA, and produce liposomes & DNA-liposome complexes in our new pilot plant. The position requires a Ph.D. in biochemistry, chemical engineering or related discipline; 0-4 years of relevant experience; a strong background in process purification; expertise in chromatography (HPLC and process), tangential flow filtration, sterile filtration and process optimization; PC proficiency with MS Office; and excellent organizational, teamwork and written/verbal communication skills.

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## RESEARCH

Human Genome Sciences is a Company with a mission to develop products to predict, prevent, treat and cure disease based on its leadership position in the discovery and understanding of human, microbial and plant genes.

We currently have several challenging openings available in our Pharmacology Department for the following position.

## Research Scientists Pharmacology

Selected candidates will work in our Pharmacology Department in respiratory, gastrointestinal, metabolic, or endocrine systems. A PhD in biological sciences and 2-4 years experience in pharmaceutical research are required. Expertise in in vivo modeling for drug development of either protein or small molecular candidates is also required.

HGS encourages the pursuit of academic excellence and offers a competitive benefits package, including educational reimbursement, subsidized health club membership, medical/dental/disability insurance programs, and a 401(K) plan with employer match. Look for us on the Internet at <http://www.hgsi.com> or send/fax your resume to Human Resources, Human Genome Sciences, 9410 Key West Ave., Rockville, MD 20850. FAX: (301) 309-1845. EOE.



The Long Island College Hospital is a highly respected, major teaching hospital located in historic Brooklyn Heights/ Cobble Hill.

## MANAGER, GRANTS AND RESEARCH

We are seeking a Manager of Grants and Research to administer all research grants received by hospital staff. You will be responsible for seeking out and soliciting new sources of funding for research and special projects, assisting in the preparation and submission of grants, RFAs and RFPs and monitoring the receipt and disbursement of research funds. As an active member of the Institutional Review Board and the Research Advisory Committee you will ensure that all internal and external regulatory standards are upheld, and that the rights of all human subjects are preserved. To qualify, you must have a Master's degree and 5 years' administrative experience in a 500+ bed acute care hospital. Excellent communication and grant writing skills, as well as superior administrative and supervisory skills are essential.

For immediate consideration, send your resume and salary requirements to:  
Employment - BG, The Long Island College Hospital, 78 Amity Street, Brooklyn, NY 11201. Fax: (718) 780-2840. An Equal Opportunity Employer M/F/D/V.



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College Hospital



## MARINE BIOGEOCHEMIST

We seek a Ph.D. oceanographer for a nine-month, Tenure-track position at the Assistant Professor level to begin in August 1999. The successful candidate will be expected to build a nationally recognized research program, to teach at the graduate and undergraduate levels, and to be involved in modest service activities at the departmental and university levels. We seek a person who would be able to offer courses relevant to both Chemical and Biological curricula and whose research interests complement those of our existing faculty in both areas. Applicants are encouraged to visit our website for more information about our faculty and program (<http://ocean.fsu.edu>). Please send a letter describing your research and teaching interests together with a curriculum vitae and the names, addresses, telephone numbers, and e-mail paths of three references to: William M. Landing, Search Committee Chair, Department of Oceanography, Florida State University, Tallahassee, FL 32306-4320 USA. E-mail inquiries: [wlanding@mailers.fsu.edu](mailto:wlanding@mailers.fsu.edu). Review of applications will begin on August 28, 1998.

Florida State University is an Equal Opportunity/Affirmative Action Employer.

## MAYO CLINIC FACULTY POSITIONS IN TRANSPLANTATION BIOLOGY



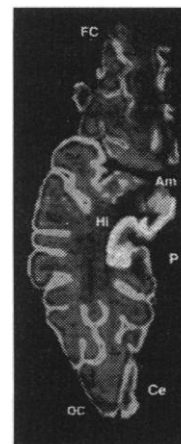
Mayo Clinic is undertaking an expanded research initiative in transplantation biology. One objective of this initiative is to assemble a faculty of independent investigators who can focus diverse scientific interests on the biological and immunological hurdles to transplantation and on the development of novel approaches to overcoming those hurdles. Four scientists of the highest caliber with expertise in cellular biology, molecular or structural biology, biochemistry, immunology, or virology who might want to contribute to such an integrated program are sought. The basic science research program will include opportunities to interact with clinical and preclinical programs. To inquire, send a cover letter describing your research interests, a curriculum vitae, and the names of three references to:

Jeffrey L. Platt, M.D.  
Mayo Foundation  
Medical Sciences Building  
Room 2-66  
Rochester, MN 55905

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

# CONQUER

## *the next* frontier in medicine



### Challenging Opportunities for Molecular Scientists in CNS Drug Discovery

As one of five R&D companies within the Astra Group, Astra Arcus is focused on the discovery and development of drugs for the treatment of central nervous system diseases. To further expand our research activities, we are building a Boston-based, state-of-the-art research center for 250 staff to be completed in 2001. *In the interim, we are able to offer several exciting opportunities within the Molecular Sciences Department to work at our newly-renovated facility at the Massachusetts Biotechnology Park in Worcester.* These are exceptional opportunities for ambitious scientists who aspire to work with advanced technologies in a multidisciplinary environment. ▲

**Qualifications:** Senior Research Scientists should have a Ph.D. with three to five years of postdoctoral experience in a relevant field. Research Associates should have either a B.S. or an M.S. degree with two or more years of relevant experience. Preference will be given to candidates with training in neuroscience or medical research experience in diseases of aging and dementia, movement disorders or neurodegeneration. Excellent organizational skills are required, as well as a demonstrated ability to work in a highly interactive team-oriented environment. ▲

We offer a highly competitive compensation/benefits plan and managed relocation assistance. Please specify position and forward your resume, including salary history and references to: **Human Resources, Astra Arcus USA, Inc., P.O. Box 20890, Rochester, NY 14602; fax: (716) 272-3979; e-mail: jobs@arcus.us.astra.com.** Astra Arcus is an equal opportunity employer. ▲

# ASTRA

Astra Arcus USA

ASTRA ARCUS

## MOLECULAR GENETICS

### Research Associate - Differential Gene Expression Postdoctoral Scientist - Potassium Channels

Responsible for identifying and cloning novel genes involved in a broad range of acute and chronic neurodegenerative diseases and psychiatric disorders, the Molecular Genetics Section is at the core of Astra's neurogenomics research program, with access to proprietary databases, Affymetrix gene chip technology and Bioinformatics support. For this stimulating, hands-on research position, the Research Associate should have experience with RNA and cDNA preparation, library construction and hybridization using nucleic acid probes. Familiarity with expression-cloning and large-scale gene expression analysis using differential-display PCR and gene-chip technology is desirable.

The Postdoctoral Scientist will clone and characterize novel potassium channels from neurons and glial cells using molecular methods of gene identification combined with expression and functional analysis. Experience in molecular biology is required; additional knowledge of electrophysiology would be desirable. Professional development will be strongly supported by publication of appropriate results and participation in an international academic consortium.

## FUNCTIONAL GENETICS

### Section Head Research Associate - Yeast Research Associate - Neuronal Cell Culture

The Functional Genetics Section requires talented scientists who will use experimental approaches to characterize the function of novel genes and to validate the selection of new therapeutic targets in Alzheimer's, Parkinson's and acute cerebrovascular disease. This evolving group combines expertise in yeast and mouse genetics with in-vitro approaches involving heterologous gene expression, in-situ analysis, cell culture and isolation and anti-sense technology.

The Section Head will be responsible for the recruitment of scientific personnel and the development of innovative research programs. In addition to a Ph.D. with several years of experience in Functional Genetics, this position requires an individual with skills in scientific leadership and management.

The Research Associate (Yeast) should have a strong background in molecular biology techniques including plasmid constructions, PCR and hybridization techniques and will be expected to learn and implement advanced developments in yeast genetic technology. For this challenging position a commitment to research in neurodegenerative diseases, as well as experience in yeast genetics and cell biology would be advantageous.

The Research Associate (Neuronal) will contribute to a team studying mechanisms of gliosis that underlie inflammatory components of neurodegenerative diseases. Hands-on experience in culturing primary neuronal and glial cells, as well as cell lines is required; familiarity with immunocytochemistry or anti-sense technology would be advantageous.

## BIOCHEMISTRY

### Senior Research Scientist Research Associate - Receptor Biochemistry Research Associate - Assay Development Postdoctoral Scientist - Neuroprotection

In the Biochemistry Section, you will have access to expertise in mechanisms of receptor and ion channel function, as well as advanced technology supporting the development of biochemical assays for the treatment of CNS diseases. In this high-profile position, the Senior Research Scientist will investigate biochemical and cellular mechanisms which prevent neurodegeneration or promote neurorestoration. The qualified candidate will be an experienced biochemist with a deep understanding of signal transduction pathways and first-hand knowledge of appropriate cell lines and animal models for the development of biochemical mechanisms as potential targets.

The Research Associate (Receptor) should have experience with receptor-binding analysis, membrane preparation, cell culture and familiarity with spreadsheet data-analysis. The Research Associate (Assay Development) will be responsible for development and implementation of automated cellular and biochemical assays.

The Postdoctoral Scientist will investigate the role of nicotinic acetylcholine receptor subtypes in neuroprotection and should have experience in cell culture, mechanisms of cell death and a knowledge of signal transduction. As a selected member of a new postdoctoral program at Astra Arcus, you will be encouraged to develop a professional profile through publication of appropriate results and participation in scientific meetings.

Visit our website at [www.astra.com](http://www.astra.com)

*SUGEN is a biopharmaceutical company doing cutting edge research in drug discovery and development. We seek several experienced individuals to join our growing team.*

### **SCIENTIST** **Preclinical Therapeutics**

You will lead our efforts to develop models relevant to several disease states, including cancer, metastasis, autoimmune diseases, and allograft rejection. Working with R&D scientists and project leaders, you will identify/evaluate potential animal models and recommend and implement them where appropriate. Requires a PhD in Immunology, Animal Physiology, Pathology or related field and at least 3-5 years experience/demonstrated ability to initiate and utilize complex animal models. Must have hands-on experience with *in vivo* models of cancer, metastasis, autoimmune disease, or allograft rejection. Successful candidates have a demonstrated ability to work independently, contribute to an interactive team environment, and train new personnel. Solid communication, software and data analysis skills are a must. Job Code: JP-SCI

### **SCIENTIST** **Cell Survival**

You will conduct basic research into the mechanisms of cell survival, with an emphasis on cellular signaling and the roles of tyrosine kinases and phosphatases. Requires a PhD and preferably 1-3 years post-doctoral research experience. Working knowledge of the techniques of molecular and cell biology and protein chemistry and/or primary cell cultures is necessary. We encourage publication and scientific presentation. Job Code: DCL-SCI

### **POST-DOCTORAL**

You will investigate the role of novel signal transduction molecules in mediating the anti-apoptosis phenotype associated with oncogenesis. Requires a PhD or MD with 0-3 years post-doc experience, including a focus on signal transduction in cells. Familiarity with molecular, biochemical and cell biology techniques is essential. Job Code: MG-SCI

In the last quarter of 1998, we will be moving to a 100,000-square foot, state-of-the-art facility in South San Francisco. We offer competitive salary and benefits, including stock options. Please send resume to Human Resources, Job Code: \_\_, SUGEN, Inc., 351 Galveston Drive, Redwood City, CA 94063. Email to: [jobs@sugen.com](mailto:jobs@sugen.com) (MS Word documents preferred; indicate Dept. code). EOE.

**[www.sugen.com](http://www.sugen.com)**

**S U G E N**

# **Research Scientists**

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just eighteen years.

We are looking for experienced molecular biologists to join a new team that is focused on the discovery and evaluation of therapeutic target candidates using cutting-edge, high-throughput technologies. Successful candidates will have a record of using novel approaches to identify therapeutic proteins or drug targets, as demonstrated by relevant publications and/or patents.

These positions require a Ph.D. in Biochemistry or related discipline with 2-4 years' experience in a drug discovery environment, as well as experience in applied high-throughput biology, such as gene expression analysis using DNA microarrays, expression cloning or drug screening. Excellent leadership and communication skills are essential and some supervisory experience is preferred.

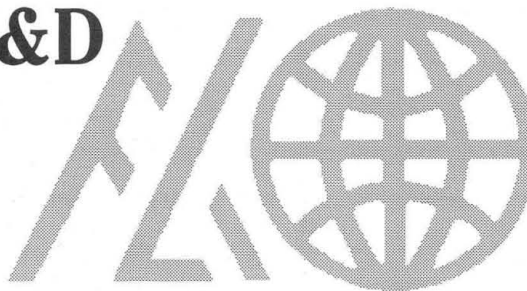
At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, please mail your resume on plain white paper (using standard type font, no bullets, italics, underlining or bolding), to: Amgen Inc. Staffing, Job Code: 0000000049, P.O. Box 2569, Thousand Oaks, CA 91319-2569, or e-mail your ASCII text resume to: [jobs@amgen.com](mailto:jobs@amgen.com). Please consult our website at: [www.amgen.com](http://www.amgen.com) for other career opportunities available at Amgen. Principals only, please. We recognize that diverse perspectives are a key factor in the process of discovery. EEO/AA Employer M/F/D/V.

**AMGEN**



# PHARMACEUTICAL R&D

## ARE YOU READY FOR THE CHALLENGE OF AN EXCITING CAREER?



**THE CHALLENGE:** Join in the scientific development and product marketing excellence of a leader in CNS, C.V., Pulmonary and Women's Health products. See your career take off as we propel our profitable, medium-sized prescription pharmaceutical company towards the \$1 billion mark. Tremendous personal and career growth lies ahead for talented, committed professionals.

**THE OPPORTUNITY:** Experienced staff are needed in all areas of pharmaceutical compound and product development, including marketing, sales operations, IT and R&D. Several specific openings we are recruiting for:

### DEVELOPMENT (Positions in New York City)

#### ■ SENIOR PK/PK SCIENTIST

Review and provide technical evaluation for PK data. Prepare regulatory data for IND and NDA submissions. Requires a PhD (Pharmaceutics or Pharmacokinetics) plus 2-4 years PK experience (4+ years for Senior) in pharmaceutical industry.

#### ■ TECHNICAL WRITER

Prepare preclinical sections for IND and NDA submissions, data analy-

sis, preclinical studies, and SOPs. Requires BS/MS in Life Sciences with 2+ years preclinical/scientific writing experience.

#### ■ CLINICAL TRIAL MANAGERS

Protocol development and preparing clinical trial materials; coordinate clinical programs; prepare study summaries and status reports; and contribute to clinical submissions to IND and NDAs. Requires BS degree with 5-7 years experience in clinical management.

### DEVELOPMENT (Positions on Long Island)

#### ■ CLINICAL SUPPLY MANAGER (R&D)

Design and execute clinical supply functions according to protocols and in coordination with medical and PK requirements. Requires 3-5 years supervisory experience on packaging, labeling and distribution of clinical trial materials.

#### ■ SENIOR RESEARCH SCIENTIST (BIOANALYTICAL)

Project coordination and method development of analytical procedures for assay of pharmaceuticals and their metabolites from biomatrices. Requires PhD with 2-7 years experience.

#### ■ SENIOR RESEARCH SCIENTIST (FORMULATIONS)

Support formulation development efforts for solids, tablets and capsules. Plan and conduct experiments, test and document experimental and clinical batches. Supervise 2 employees. Requires PhD with 4+ years experience.

#### ■ RESEARCH SCIENTIST (FORMULATIONS)

Support formulation development efforts for solids, tablets and capsules. Plan and conduct experiments, test and document experimental and clinical batches. Requires PhD with 0-3 years experience.

#### ■ SCIENTIST III (METHOD DEVELOPMENT)

Develop analytical methods for solid dosage form and validate analytical methods. Must be familiar with analytical instruments (i.e.: HPLC, GC, UV, IR). Requires BS or MS with 5-8 years experience.

#### ■ PROJECT LEADER (R&D)

Will serve as project leader and supervise team of 4-5 Chemists. Experience with HPLC, GC and UV/IR testing/analysis and expertise with finished pharmaceutical products, raw materials and fluid technology necessary. Must be familiar with Turbochrome. Requires BS/MS in Chemistry or related and 5 years supervisory experience in the pharma industry.

### REGULATORY (Positions in New York City)

#### ■ ASSOCIATE DIRECTOR - REGULATORY AFFAIRS

Assume responsibility for preparation of major IND and NDA submissions. Provide oversight to regulatory team. Requires an advanced degree in Pharmaceutics or Life Sciences plus 7-10 years industry experience in Regulatory Affairs.

#### ■ MANAGER - REGULATORY AFFAIRS

Provide regulatory strategies for project and IND and NDA submissions. Requires BS (MS preferred) in Life Sciences plus 3 years in pharmaceutical industry, with 2 years in regulatory affairs.

**THE BENEFITS AND REWARDS:** Forest Laboratories is a growth-oriented, highly profitable developer and marketer of pharmaceutical products. We offer a highly competitive compensation package, complete with bonus, stock options and opportunities for learning and advancement. The benefits package consists of company provided medical, dental, life, disability, 401k (with match), flexible spending, tuition, and retirement (profit sharing) plans.

**HOW TO APPLY:** For immediate and confidential consideration, send your resume (with salary requirements) and position of interest, to: Human Resources-MS, Forest Laboratories, Inc., 909

Third Avenue, New York, NY 10022-4731; OR: for NYC positions, e-mail to: [michelle.schachter@frx.com](mailto:michelle.schachter@frx.com); or fax to: 212-750-9152. For LI positions, e-mail to: [jodi.drubin@frx.com](mailto:jodi.drubin@frx.com); or fax to 516-499-0065. Principals only. No phone calls. We are an equal opportunity employer that encourages all qualified individuals to apply.



Forest Laboratories, Inc.

## VICE PRESIDENT FOR RESEARCH MEDICAL COLLEGE OF GEORGIA

The Medical College of Georgia (MCG) invites applications and nominations for the position of Vice President for Research. As Georgia's health sciences research university, MCG includes schools of medicine, dentistry, nursing, allied health sciences, and graduate studies as well as a tertiary-care hospital and clinics. MCG has a student enrollment of over 2,000 and approximately 670 faculty members in multiple health sciences disciplines.

There are about 475 active sponsored projects supported by 26 million dollars of extramural funds. MCG's strategic plan for research focuses on molecular medicine and genetics, immunology, vascular biology, aging, health services, and applied biomedical research.

The Vice President for Research reports to the Senior Vice President for Academic Affairs and is the senior administrative leader for the institution's research and development efforts. All aspects of research program planning and implementation is expected. In particular, the Vice President will serve a liaison and advocacy function with the university faculty and administration as well as federal, foundation, and corporate research entities. The Vice President is responsible for the management of intellectual properties, conflicts of interest and responsible conduct of research, and other research compliance issues. The Vice President oversees the Offices of Grants and Contracts, Biostatistics, Clinical Trials Compliance, and Research Support Services. The Vice President for Research serves as Vice Chairman of the Board of Directors of the Medical College of Georgia Research Institute, Inc.

The successful candidate should have an earned doctoral degree, as well as established scientific and academic credentials reflecting significant expertise in the development and funding of research efforts along with administrative experience preferably in an academic medical center. Academic appointment in a department within the institution is desirable, and opportunities exist for ongoing involvement in academic and research programs. Review of candidates will begin September 1, 1998, and will continue until the position is filled. Interested applicants should submit a curriculum vitae; a cover letter describing the candidate's research, academic, and administrative experience; and the names and addresses of three references. *The Medical College of Georgia encourages nominations and applications from women, minority, and disabled candidates.*

Applications and nominations should be submitted to:

**John D. Catravas, Ph.D.**  
Chair, Search Committee  
Vice President for Research  
CB 1327  
Medical College of Georgia  
Augusta, GA 30912-7200  
E-mail: jcatravas@mail.mcg.edu  
Telephone: (706) 721-6338  
Fax: (706) 721-9799



## DGI BIOTECHNOLOGIES BIO-TECH SPECIALISTS

DGI Bio Technologies, LLC is a New Jersey bio-pharmaceutical company focused on the establishment of promising drug assays and discovery leads for license to pharmaceutical and biotech companies. Active research involves the design and construction of novel genes and proteins and obtaining structure-function relational data on drug targets and drug leads.

We seek Scientists, Group Leaders and Directors with the following expertise:

### HIGH THROUGHPUT SCREENING

Biochemists/engineers needed to join the high throughput screening lab for novel therapeutic entities. Experience in the development of quantitative receptor binding assays desired; relational databases a plus. Must be capable of selecting robotics equipment for high throughput screening as well as designing/executing experimental protocols.

### MOLECULAR BIOLOGY

Duties include gene cloning and expression. Will work on projects that apply gene libraries on filamentous phage to structure-function relationship of selected receptors. Must be able to implement molecular biology approaches to study protein interactions and protein structure-functions.

### PROTEIN PURIFICATION

Experienced protein purification specialists required for protein chromatography (FPLC, GradiFrac), BIACORE analysis and protein characterization by gel electrophoresis and ELISA.



Interested applicants are invited to send resume, indicating position of interest, which must include salary requirements and references to: DGI Biotechnologies, P.O. Box 424, 44 Talmadge Road, Edison, New Jersey 08818-0424, or fax to (732) 287-1486. EOE M/F/D/V

## DALHOUSIE UNIVERSITY ASSISTANT PROFESSOR Department of Biochemistry

The Department of Biochemistry invites applications for a probationary tenure-track position at the rank of Assistant Professor. Dalhousie University's Department of Biochemistry and the Canadian Institute for Advanced Research (Evolutionary Biology Program) seek a scientist whose research is directed at understanding macromolecular structure and function within an evolutionary context. In particular, we are looking for candidates who couple the comparative method with phylogenetic reconstruction and *in vitro* structure/function analyses to study the evolution of fundamental cellular processes. Applicants should have a Ph.D. and at least two years of postdoctoral experience. This position will be supported initially by CIAR and thus carries reduced teaching responsibilities and provides the benefits of association with an international network of researchers in molecular phylogenetics, microbial and organelle genomics, and nucleic acid/protein evolution, several in the Halifax area. The successful applicant will also interact with members of the Department of Biochemistry who are studying the structure and function of proteins through the use of protein engineering and inhibition of enzyme activity with transition state analogues.

Applicants should submit a curriculum vitae, two to three reprints of recent publications, a one- to two-page statement outlining their research plans and names of three referees to: **Dr. F. B. St. C. Palmer, Acting Head, Department of Biochemistry, Faculty of Medicine, Sir Charles Tupper Medical Building, Dalhousie University, Halifax, NS B3H 4H7 Canada.**

Closing date for receipt of applications will be September 30, 1998. The Academic Planning Committee will commence reviewing applications in October, 1998. Effective date of employment is expected to be January 1, 1999. *Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified aboriginal peoples, persons with a disability, racially visible persons, and women. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.*





## Research Grants Manager

Rockville, Maryland-based \$20 million nonprofit seeks skilled administrator with background in biology or biomedical sciences to head research grants department.

Responsibilities include pre- and post-award administration of research grants program on age-related and degenerative diseases; recruitment and oversight of scientific review committees; and representation of organization at scientific and other targeted meetings. Must have significant practical experience directly related to hands-on administration of grant programs. Management experience and a working knowledge of database and spreadsheet applications a must. Strength in interpersonal relations and relevant scientific knowledge are major plus criteria. German, Dutch, and French language skills a plus.

Must possess an ability to explain biomedical research to the lay public. Travel required. Salary negotiable. Forward résumé and salary history to **J. Walters, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850.**

## Fermentation/Cell Biologist

Be at the forefront of drug development research with DuPont Pharmaceuticals Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

This position requires a scientist with a broad knowledge of fermentation/bioreactor processes for producing recombinant proteins in microbial, yeast, and preferably other expression systems (e.g. insect or mammalian) at the plate, tube and 1-60 liter scale. The successful candidate will have experience in maintaining and adjusting lab fermentors/bioreactors and familiarity

with downstream processing is desirable. A BS/MS degree in Biology or related field is required along with at least 3 years of work experience in microbiology, fermentation, and/or large scale cell culturing.

DuPont Pharmaceuticals Company offers a competitive salary and a generous benefits package including a 401K plan as well as excellent working conditions and challenging assignments. Please send a letter of introduction and resume, to: Human Resources-SD-SR, DuPont Pharmaceuticals Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.

**DU PONT  
PHARMA**

DuPont Pharmaceuticals Company



## POSTDOCTORAL POSITIONS MAYO FOUNDATION

Two positions are available to study nuclear determinants of mtDNA integrity and OXPHOS maintenance. Projects will focus on the identification and functional characterization of new mitochondrial proteins required for respiratory function through molecular/biochemical studies in yeast and mouse models.

Background in organelle biogenesis with experience in yeast genetics, molecular biology, and protein biochemistry are highly desirable, but all strong candidates will be considered. Salary will be determined by the successful candidate's experience, and there will be also an attractive benefit package. The positions are available from October 1998 for a period of at least two years. Mayo Foundation is a nonprofit, physician-led clinical practice integrated with education and research in a unified multicampus system.

Send curriculum vitae and the names of three references to:

**Grazia Isaya, M.D., Ph.D.**

**Mayo Foundation**

**Department of Pediatrics & Adolescent Medicine**

**c/o Cheryl Nelson**

**Research Services, 630 Siebens Building**

**200 First St. S.W.**

**Rochester, MN 55905**

**(FAX: 507-284-1772)**

*Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.*

## Program Scientists

### Research Division

### Office of Earth Science

### National Aeronautics and Space Administration (NASA)



NASA Headquarters Office of Earth Science (OES) seeks qualified applicants for the positions of program scientists for Polar Research in the Research Division. These positions are to be filled on a 1- to 2-year rotating basis under the provisions of the Intergovernmental Personnel Act (IPA). IPA applicants must be permanent, career employees of an IPA-eligible employer for at least 90 days prior to entering into a mobility assignment agreement with a federal agency. Reimbursement of salary, benefits, and other related expenses is negotiated between NASA Headquarters and the individual's institution.

Primary responsibilities include: program planning, priority formulation, proposal evaluation, recommendation and monitoring of research grants and projects, and coordination with other federal and nonfederal programs. The OES Program requires extensive interdisciplinary interactions.

Applicants must have a Ph.D. or equivalent experience in the respective disciplinary science or related fields; five or more years of successful research, research administration, and/or managerial experience pertinent to the respective positions beyond the Ph.D.; and a broad understanding of the current status of the respective disciplinary research at the national and international level as well as the role of remote sensing in the continuing advancement of research.

Interested applicants must submit a curriculum vitae and a list of three references to the **NASA Headquarters, Office of Earth Science, ATTN: Jackie A. Gasch, Code YS, 300 E. Street S.W., Washington, DC 20546-0001.**

Review of applications begins on August 21, 1998.

For further administrative information, call **Jackie A. Gasch, 202/358-0844.** For technical information, call **Dr. Robert A. Schiffer, Acting Deputy Director Research Division; 202/3548-1876.**

*NASA is an Equal Opportunity Employer committed to employing a highly qualified staff that reflects the diversity of our nation.*

### Postdoctoral Opportunities in Breast Cancer Research



#### Lombardi Cancer Center Georgetown University Medical Center

An integral component of the Specialized Programs of Research Excellence (SPORE) in Breast Cancer grant awarded to the Lombardi Cancer Center is the training of new investigators for a career in translational research. The goals of the program include the development of individuals having the capability to move basic research findings into applied research settings with patients and populations. Postdoctoral positions are immediately available. Successful applicants will have the opportunity to choose a mentor from among an interactive group of peer-reviewed and funded investigators who are currently committed to breast cancer research. Research programs cover the development of novel anticancer therapies, the evaluation of prognostic indicators, dissemination of the genetic and molecular mechanisms that underlie the malignant progression, prevention models, loss of estrogen sensitivity, and increased metastatic potential of breast cancer cells. Complete descriptions of individual research programs are available upon request. Salary is competitive and commensurate with qualifications and experience.

*Applications from women and minorities are encouraged.* Applicants should have a Ph.D. or M.D. Please send curriculum vitae, a short statement of research interests and goals, and the names and addresses of three references to:



**Breast Cancer SPORE  
Postdoctoral Training Program  
c/o Marc E. Lippman, M.D.  
Lombardi Cancer Center  
Research Building  
3970 Reservoir Rd N.W.  
Washington, DC 20007-22197**



## SCOTT & WHITE



*A postdoctoral position is available to study the neural basis of schizophrenia and animal models characterizing the role of 5-HT<sub>2A</sub> receptors in antipsychotic action. The Neuropsychiatry Research Program of Texas A&M Health Science Center Department of Psychiatry & Behavioral Science is a multi-disciplinary program integrating human/animal models in the study schizophrenia and other neuropsychiatric conditions.*

Scott & White is affiliated with Texas A&M University Health Science Center and is comprised of a 496-physician multi-specialty clinic, a 481-bed teaching hospital, the Scott & White Health Plan that manages the health care of over 152,000 people, and 18 Regional Clinics.

*Interested applicants should send resume and 3 reference phone numbers to:*

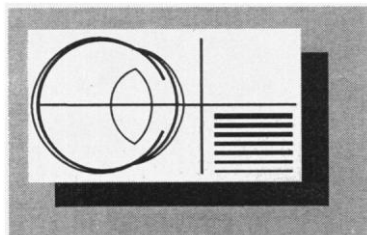
Paul B. Hicks, M.D., Ph.D./Keith A. Young, Ph.D.  
Department of Psychiatry  
Scott and White Hospital  
2401 S. 31st Street · Temple, Tx 76708  
Fax: (254) 899-4555 or E-mail to: phicks@swmail.sw.org  
Equal Opportunity Employer

### FELDMAN CHAIR IN OPHTHALMOLOGY

#### UCLA School of Medicine

The Jules Stein Eye Institute and Department of Ophthalmology at the UCLA School of Medicine are seeking nominations and applications from distinguished vision scientists for the **Charles Kenneth Feldman Endowed Chair** in Ophthalmology. Please send a letter of nomination, or an application together with current curriculum vitae and names of three references, to:

**Wayne L. Hubbell  
Associate Director  
Jules Stein Eye Institute  
UCLA School of Medicine  
Los Angeles, CA 90095-7008**



### Seattle

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant. As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetic's mission is to identify protein therapeutic opportunities and to take selected projects as far as clinical proof of concept studies. We offer intellectual challenge, state-of-the-art facilities, and a generous benefits package. We are currently seeking qualified candidates for the following position:

#### Research Associate I/II/III

The Immunology Department is seeking a Research Associate I/II/III with experience in and knowledge of mammalian cell culture and molecular biology. The individual will be responsible for helping to implement established bioassays and to develop new technology to ascertain the function of novel secreted proteins. The successful candidate will be self-motivated, familiar with the scientific literature, and willing to organize and present their results at group meetings. Knowledge of cellular and molecular immunology is a plus. Familiarity with common computer software (e.g., Word, Excel, Cricket Graph, Filemaker Pro) is essential. The successful candidate will be flexible, goal-oriented, and have a basic interest in thinking about and executing experiments to discover the biological function of novel proteins.

For confidential consideration, forward your résumé and cover letter noting Job #35N598 to: **ZymoGenetics, Inc., Attn: Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. Fax: (206) 442-6658. EOE.**

# ZYMOGENETICS



**NATIONAL INSTITUTES  
OF HEALTH  
CENTER FOR INFORMATION  
TECHNOLOGY  
VACANCY ANNOUNCEMENT  
CHEMIST (COMPUTATIONAL)**

An opportunity to lead a computational structural biology activity in support of the prestigious Intramural Research program of the National Institutes of Health. The successful candidate will provide scientific expertise as well as computational resources for molecular modeling to the NIH community. We are a progressive agency offering a competitive pay and benefits package. We are looking for a Chemist (Computational) at either the GS-13 or GS-14 level (\$55,969 to \$85,978 per annum) for a permanent federal position.

Please call the phone number below for the mandatory selective factor; mandatory knowledge, skills, and abilities; plus additional information required such as closing dates, application formats, etc.

**WHERE TO APPLY:**

**CIT Human Resources Office**  
**Attention: Carrie Anderson (IT-98-0041)**  
**12 South Drive, Room 3013**  
**Bethesda, MD 20892-5644**  
**Phone: 301-496-6951**  
**Fax: 301-402-8623**  
**e-mail: <http://eos4.dcert.nih.gov/dcert.htm>**

**NIH IS AN EQUAL OPPORTUNITY  
EMPLOYER**



**FUNCTIONAL  
TOXICOLOGY  
GROUP LEADER**

Applicants with demonstrated expertise in nuclear receptor-based mechanisms of toxicological research are invited to apply for the position of Molecular Toxicologist in the Laboratory of Toxicology, National Institute of Environmental Health Sciences (NIEHS). The selectee will head a small group which will provide an NIEHS/National Toxicology Program (NTP) focus for the development of bioassays to detect the endocrine activities of environmental agents and will be responsible for conducting and coordinating studies to evaluate the biological and functional significance of those endocrine activities. This will involve collaborations with NIEHS intramural and extramural scientists, and/or contract management. Elucidation of the molecular mechanisms underlying these endocrine activities will provide the NTP with data for setting study priorities and aid in assessment of human exposure and health risks. This position is comprised of a majority (75%) of NTP-program directed research and (25%) independent investigator research. This appointment will be made initially for up to five years; additional five-year extensions may be approved dependent upon both sustained high-level performance and continued need for this position. Salary commensurate with experience; full Federal employee benefits. Candidates must have a M.D., Ph.D., or equivalent; be a U.S. citizen, resident alien, or non-resident alien with a valid employment-authorized visa.

Applicants should submit a curriculum vitae and bibliography, 3 letters of reference, and statement of research interests/accomplishments to: Julie Manyk (HNV98-18), NIEHS Human Resource Management Branch, MD EC-11, P. O. Box 12233, Research Triangle Park, NC 27709 by closing date of September 22, 1998.

*Biogen has established a unique record of success as one of the world's premier biotechnology companies. Pioneering research by our scientists has led to the introduction of several important new medical therapies, including AVONEX (Interferon beta-1a), the most prescribed therapy in the U.S. for relapsing forms of multiple sclerosis. We are staking our future growth on the development of our next generation of pharmaceutical products, five of which are currently being tested in human clinical trials. Today, we are seeking the following committed professionals to join our expanding team in Cambridge.*



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**MANAGER - DEVELOPMENT**

This is a senior scientific position responsible for the design, conduct, reporting and management of IND, BLA and NDA enabling programs. Position is responsible for all scientific issues related to preclinical and clinical ADME, toxicology, pathology, biopharmaceutics and associated product development strategies. Position requires a minimum of 7-10 years of relevant experience in the biopharmaceutical industry with direct involvement and responsibilities in the development of small molecules and biotechnology-derived products. A Ph.D, D.V.M. or equivalent, specific expertise in pathology, toxicology, pharmacology, or pharmacokinetics, and a strong publication record is required. Initial preference is for a pathologist trained in veterinary pathology or toxicologic pathology; however, candidates with credentials in the scientific disciplines noted above are urged to apply. The ability to perform independently and collaboratively in a matrix environment is essential for a successful candidate. Prior experience working with interdisciplinary project teams and with CROs is essential. Job Code: JT/MD

**SCIENTIST - TOXICOLOGY**

An entry level scientific position that is responsible for assisting in the design, conduct and reporting of toxicology studies conducted to support IND, BLA and NDA programs. A Ph.D. in toxicology, specific expertise in immunotoxicology and a publication record indicative of strong scientific potential is required. An exceptional post-doctoral candidate or person who has completed a recent post-doctoral appointment in a relevant area of toxicology and is interested in an industrial career would be considered ideal. Job Code: JT/ST

**SCIENTIST - PHARMACOKINETICS AND  
METABOLISM**

An entry level scientific position that is responsible for assisting in the design, conduct and reporting of pre-clinical pharmacokinetic and metabolism studies conducted to support IND, BLA and NDA programs. A Ph.D. or equivalent, specific expertise in pharmacokinetics and metabolism issues and a publication record indicative of scientific potential is required. An exceptional post-doctoral candidate or person who has completed a recent post-doctoral appointment in a relevant scientific area and is interested in an industrial career would be considered. Job Code: JT/SPM

**ASSOCIATE SCIENTIST**

In this Scientific position you will be responsible for assisting in the design, conduct and reporting of preclinical and clinical pharmacokinetic and metabolism studies conducted to support IND, BLA and NDA programs. A MS in a basic science, specific experience in pharmacokinetics and metabolism issues and a publication record indicative of scientific ability is required. Job Code: JT/AS

These positions will work collaboratively with other senior scientists and scientific managers in a matrix environment, participate in interdisciplinary project teams and work with contract research organizations. Each presents a unique opportunity for the right individual to be trained for a successful career in the pharmaceutical development in a leading biopharmaceutical company.

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Research Hospital**

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An NIH funded postdoctoral position is immediately available to investigate the regulation and modulation of DNA repair pertinent to anticancer drug resistance. Studies are focused on the intracellular localization of a novel MGMT enhancer binding protein (Proc Natl Acad Sci 94:4348, 1997). Purification of this protein and isolation of its gene are priorities. Recent Ph.D.s with a strong background in molecular biology, cell biology and biochemistry will be considered. Experience with protein purification and gene cloning will be advantageous. St. Jude Children's Research Hospital offers an excellent research environment with state-of-the-art facilities, competitive salary and excellent benefits for fellows.

For further information please visit our web site  
at: [www.stjude.org](http://www.stjude.org)

Please send a curriculum vitae, statement of research interests and the names and addresses of three references to: Thomas P. Brent, Ph.D., Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-521-1668. E-mail: [tom.brent@stjude.org](mailto:tom.brent@stjude.org)

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Applications are invited for faculty appointments in eye and vision research to join a growing team of established investigators with vision-related interests. Responsibilities include independent and collaborative research with both basic scientist and clinicians, as well as teaching. The Bishop Foundation Professorship will be made at the associate professor or full professor level. Two additional positions are offered at the assistant professor level. Candidates must possess a Ph.D. or M.D. degree and a minimum of two years of postdoctoral research experience to include research in molecular and/or cell biology with a primary focus in mammalian systems. Prior vision-related research is not a requirement. Areas of specific interest might include molecular genetics, molecular regulation of eye development, gene transfer, or molecular apoptosis research. Other areas will be considered.

Applicants should send their curriculum vitae, a specific statement of research plans, and arrange for four letters of recommendation to:

**Steven E. Wilson, M.D.**

**Professor and Chair**

**University of Washington School of Medicine**

**Department of Ophthalmology, Box 356485**

**Seattle, WA 98195-6485**

*The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

## *National Institute for Discovery Science*

### **ESSAY COMPETITION DEADLINE AUGUST 11, 1998**

- Essay question: (a) If contact were made between humans and extraterrestrial intelligence (ETI) on earth or in the solar system, what is the most probable means by which that would occur and how would we know that the interaction had taken place?  
(b) Please design one particular research project, or a whole set of research projects that focus on how to detect or verify the presence of ETI. The research design should be both scientifically rigorous and innovative. Implied in this question is a further question: what are the acceptable levels of proof required by science and society for the existence of ETI on earth or in the solar system?
- Scientists are invited to submit essays on the above topic. Three prizes of \$5,000 each will be awarded to the authors of the highest quality essays as judged by an independent panel of seven judges.
- For writers' guidelines, essay topics, and the latest information on essay submissions to NIDS check our website at: [www.accessnv.com/nids](http://www.accessnv.com/nids).
- The National Institute for Discovery Science, 1515 E. Tropicana, Ste 400, Las Vegas, NV 89119. Tel: 702-798-1700. E-mail: [nids@anv.net](mailto:nids@anv.net).

### **OUR BUSINESS IS SCIENCE. OUR PRODUCT IS LIFE.**

QLT PhotoTherapeutics Inc. (QLT) is a world leader in the development and commercialization of proprietary pharmaceutical products for use in photodynamic therapy, an emerging field of medicine utilizing light-activated drugs in the treatment of disease. Headquartered in Vancouver, British Columbia, QLT is one of the largest biotechnology companies in Canada with strong strategic partnerships worldwide.

## **Senior Scientist**

This key position will see you develop plans and programs to meet QLT's objectives for new drug development. In collaboration with the Pre-Clinical Pharmacology division you will employ formulations expertise and techniques to formulate lead candidate compounds, identify formulations/delivery systems and provide solutions early in the lead optimization process. You will coordinate pharmaceutical development activities with third-party parenteral or contract houses, and establish cGMP and other initiatives in Pharmaceutical Development and Analytical Services.

Your PhD. or MSc. in Industrial Pharmacy or Chemistry is complemented by several years of new product and analytical development experience in the pharmaceutical industry. A working knowledge of the regulatory filing requirements of FDA, HPB, and EU health authorities, including parenteral product development, is assumed.

We thank all applicants for their interest and advise that only short-listed candidates will be contacted. QLT offers relocation assistance and a competitive benefit/compensation program, including a stock option purchase plan. Please submit your resume and cover letter, quoting Ref.# SCI-007, to: Human Resources, QLT PhotoTherapeutics Inc., 520 West 6th Avenue, Vancouver, British Columbia, Canada V5Z 4H5. Fax: (604) 871-1308; E-mail: [hr@qlt-pdt.com](mailto:hr@qlt-pdt.com).



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Several Information Management opportunities exist in our pharmaceutical discovery research organization. We are looking for professionals with outstanding communication skills to work in the following areas:

- DATA MANAGEMENT - HIGH THROUGHPUT SCREENING
- CHEMINFORMATICS
- WEB INTEGRATION
- DATA MODELING/DATABASE DEVELOPMENT

All positions require 3 years' application development experience with any 3 of the following technologies:

- Visual Basic
- NT/UNIX
- MS Excel macro development
- IIS/Visual Interdev
- Oracle/SQL server
- Activity Base
- MDL Isishost/Project Library
- MDL development tools
- JavaScript/Chemscape

At Roche, we not only offer employees competitive salaries and comprehensive benefits, but we also offer a unique campus-like facility, state-of-the-art fitness center, and on-site childcare. For consideration, forward your resume, indicating position of interest, to Hoffmann-La Roche, R&D Human Resources, Dept. 98-0381, Bldg. 76/508, 340 Kingsland Street, Nutley, NJ 07110. Principals only. We appreciate your interest in Hoffmann-La Roche but can only respond to qualified candidates. Hoffmann-La Roche is an equal opportunity employer fully committed to diversity in the workplace.



# Research Scientist

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just eighteen years, and we currently have an opportunity for a Research Scientist within the Small Molecule Drug Discovery Group.

Managing the Compound Sample Bank within the Small Molecule Drug Discovery group, your sample Bank staff will coordinate and process chemical samples for biological activity assessment via high-throughput screening. You will be responsible for the primary and secondary screening efforts, monitoring and tracking integrity, size and components of chemical sample libraries, and assisting medicinal chemists in tracking and screening of one-up compounds. A Ph.D., experience in managing pharmaceutical compound inventories, and knowledge of laboratory automation technologies for liquid handling and sample store and retrieval are required. Computer skills (Wintel), familiarity with databases, and a working knowledge of chemistry and/or biological assay processes are essential. Excellent communication skills, the ability to work well with others, and attention to detail are pluses.

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and 3 weeks' vacation. For immediate consideration, please mail your resume on plain white paper (using standard type and fonts, no bullets, italics, underlining or bolding), to: Amgen, Staffing, Job Code: 0000000050, P.O. Box 2569, Thousand Oaks, CA 91319-2569, or e-mail your ASCII text resume to: [jobs@amgen.com](mailto:jobs@amgen.com) Please consult our website at: [www.amgen.com](http://www.amgen.com) for information on other career opportunities available at Amgen. Principals only, please. We recognize that diverse perspectives are a key factor in the process of discovery. EEO/AA Employer M/F/D/V.

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### STAFF SCIENTIST

You will act as a scientific liaison with collaborators, customers and internal departments. Responsibilities will include managing external interactions, analyzing results, trouble shooting and training customers on probe assay use, as well participating in R&D projects. Requires a PhD in Biochemistry, Molecular Biology, Genetics, Biophysics or related field and minimum 3 years relevant experience in DNA/RNA and standard molecular biology procedures and concepts. Must have a strong research and publication record, solid analytical/computational skills, and an understanding of the physical chemistry of biological macromolecules. Successful candidate will possess excellent writing/verbal skills and an ability to work with diverse personalities.

For consideration, please mail or fax your resume to: Affymetrix, Human Resources, Job Code: ACH1014, 3380 Central Expressway, Santa Clara, CA 95051; Fax (408) 481-0422; or visit us at [www.affymetrix.com](http://www.affymetrix.com). We are an equal opportunity employer.



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



### Postdoctoral Positions Epithelial Cell Biology



The Alfred I. duPont Hospital for Children, a multi-specialty, acute-care teaching hospital located in Wilmington, DE, currently has two postdoctoral positions available in the Laboratory of Epithelial Cell Biology. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis and the biochemical basis for the relationship between the loss of CFTR activity and CF pathophysiology.

The first position involves studies of kinase-dependent activation of normal and mutant forms of the CFTR. Expertise in electrophysiology (patch clamping or two electrode voltage clamping), cell culture and molecular biology is required. Experience with protein labeling would be helpful.

The second position involves studies of antibacterial activity by normal and CF airway cells. Expertise in mammalian and bacterial cell culture is essential. Experience with ion transport electrophysiology would be helpful.

The Alfred I. duPont Hospital for Children is the pediatric teaching hospital for Thomas Jefferson University, and the laboratory of Epithelial Cell Biology is part of the Department of Pediatrics. Competitive salary and benefits plans are offered. For consideration indicate the position applied for and send a curriculum vitae with the names of three references to **Dr. William Reenstra, Department of Clinical Science, Alfred I. duPont Hospital for Children, PO Box 269, Wilmington DE, 19899, [wreenstr@nemours.org](mailto:wreenstr@nemours.org), or FAX 302-651-6881.** Alfred I. duPont Hospital for Children is an Equal Opportunity/Affirmative Action Employer.

For more information about The Alfred I. duPont Hospital for Children and our employment opportunities, visit our Web site: <http://www.kidshealth.org>

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## Radiochemist Product Development

NeoRx Corporation, a Seattle based, publicly held biotechnology company, develops targeted biopharmaceuticals to treat cancer and cardiovascular disease.

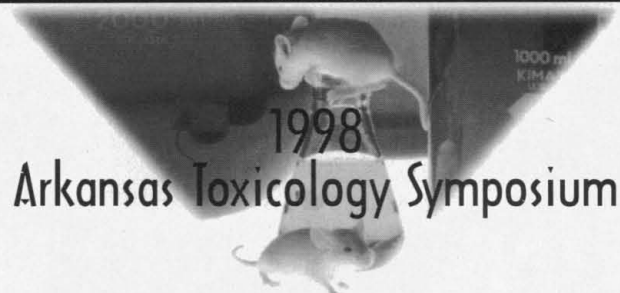
In this position, candidate will work in a team atmosphere to function as a radiopharmacy providing radiolabeled formulations to support our ongoing clinical trials. Primary responsibilities will include: preparation of formulations for clinical trials; developing new products using radioisotopes of interest to the company; troubleshooting problems associated with preparation of radiolabeled products for patient studies; and contributing to NeoRx's scientific portfolio through submission of scientific publications, presentations and patent disclosures.

Ideal candidates will have Ph.D. or equivalent experience in a relevant field of science such as chemistry, biochemistry, biology, pharmacology or medicinal chemistry. 5 years' experience in radiochemistry involving isotopes of diagnostic or therapeutic application required. Radiopharmaceutical experiences desirable.

Interested candidates are invited to forward their resume with a cover letter in strict confidence to: **Denise Lucero, NeoRx Corporation, 410 West Harrison Street, Seattle, WA 98119.** NeoRx is an Equal Opportunity Employer.

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### SYMPOSIUM



## 1998 Arkansas Toxicology Symposium

presented by the  
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### Can Rodent Cancer Tests Predict For Human Cancers?

### David Rall, M.D., Ph.D.

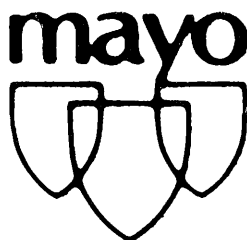
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## MAYO CLINIC Postdoctoral Position

Available immediately, is a postdoctoral opening to continue development and applications of a new micro-CT scanner in support of the laboratory's study of pathophysiological questions in small rodents. Experience in physics and/or electrical engineering is required. Some knowledge of biology is preferable. A competitive salary with an attractive fringe benefit package will be offered to the successful candidate.

Please send your curriculum vitae, a brief description of your research experience, and names and addresses of three references to:

**Erik L. Ritman, M.D., Ph.D.**  
**Department of Physiology & Biophysics**  
**Alfred Building, 2-409**  
**Mayo Foundation**  
**Rochester, MN 55905**  
**Phone: 507/255-1939; Fax: 507/255-1933**

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

### **Unit Head - Cancer Biology**

To support our ongoing commitment to Research and Development, we are seeking an accomplished scientist with broad experience in all aspects of oncology drug discovery, to join our Oncology Discovery Research Department at our state-of-the-art facility in Summit, New Jersey.

Responsibilities will include managing the scientific, administrative and technical activities of the Biology Unit, which is comprised of 7-9 senior scientists (lab heads), 2-3 postdoctoral fellows and 25-30 scientists, to ensure the timely discovery of novel compounds for the treatment of cancer. In addition, the successful candidate will contribute to the management and direction of the entire Therapeutic Area, which consists of nearly 200 scientists (approximately 60 in Summit, the remainder in Basel, Switzerland); and will play a major role in evaluating new opportunities and managing external collaborations, including those with the Dana-Farber Cancer Institute.

Qualifications include a Ph.D. in a biological science with at least ten years of experience in tumor biology and extensive knowledge of the approaches and processes involved in the discovery and development of new anticancer agents. A successful record of working with (and leading) teams of scientists, establishing and managing research plans, developing and overseeing budgets, and establishing and achieving both short- and long-term program goals is also required. A thorough knowledge of current and future medical needs and research opportunities in the area of oncology is important; a commitment to the discovery of novel agents for the treatment of cancer is a must. Strong communication and presentation skills are requisite.

We offer a compensation package that reflects the importance of this position. **PRINCIPALS ONLY:** send your resume/curriculum vitae and letter of interest, indicating JN-5697 on resume AND envelope, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Building G2, Summit, NJ 07901; or e-mail HRSTAFFRD.PHUSEH@pharma.novartis.com. Please indicate position code on resume AND envelope (or as the subject on your e-mail). We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

# Molecular Biology of the Lower Eukaryotes

The Department of Biological Sciences invites applications for a limited term faculty position (Instructor II) with expertise in molecular biology of the lower eukaryotes (starting salary \$38,335 - 42,000). The position is available October 1st, 1998, or as soon thereafter as possible, and runs to June 30, 2001, with the possibility of a two-year extension. The successful candidate will be a dynamic lecturer with interests in undergraduate curriculum design, laboratory development, and computer assisted learning, and will have a strong commitment to teaching in the areas of biochemical genetics, regulation of gene expression and aspects of fungal biology at the undergraduate and graduate levels. The required qualifications for this position are a Ph.D. in an appropriate field, preferably at least two years of postdoctoral experience, a record of high quality productive research and a commitment to excellence in teaching. The successful candidate will have a strong interest in molecular biology and some time will be available for research interactions with other faculty members, especially during the spring and summer.

A complete application should consist of: a curriculum vitae including an e-mail address, copies of not more than three representative publications, and a teaching dossier. Candidates should arrange to have three letters of reference sent to the address below. The closing date for receipt of the complete application package and three letters of reference is September 15, 1998. Please send your application package to:

Dr. A.P. Russell, Head, Department of Biological Sciences  
University of Calgary, 2500 University Drive N.W.  
Calgary, Alberta, Canada T2N 1N4  
Facsimile: 403-289-9311

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.



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## Postdoctoral Research Associates



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### Faculty:

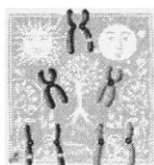
- **Steven Berberich:** Mdm-2:p53 interactions in cell proliferation and differentiation.
- **Michael Leffak:** Cis-acting elements and trans-acting factors involved in eukaryotic DNA replication.
- **Daniel Organisciak:** Retinal light damage; visual cell death.
- **John Paietta:** Regulation of gene expression, control of sulfur metabolism in *Neurospora*.
- **Lawrence Prochaska:** Mitochondrial bioenergetics, structure and function of cytochrome c oxidase.
- **Nicholas Reo:** NMR *in vivo*; liver metabolism/chemical toxicology.
- **John Turchi:** Eukaryotic DNA replication and repair.
- **Brenda Wilson:** Bacterial protein toxins, signal transduction mechanisms microbial pathogenesis.

Ph.D's with experience relevant to one or more areas above should send a cover letter indicating interest in a specific laboratory, a current curriculum vitae, copies of publications, and the names of three references to: **Postdoctoral Search Committee, Department of Biochemistry and Molecular Biology, Wright State University, 3640 Colonel Glenn Highway, Dayton, OH 45435.** *Fellows must be U.S. citizens or permanent residents.* Salaries are commensurate with experience. Consideration of applications will begin on September 1, 1998.

Additional information about the department and faculty e-mail addresses are available at: <http://www.med.wright.edu/som/academic/BMB/bmbhome.html>.

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## SYMPOSIUM



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Baylin (USA), Belinsky (USA), Brockdorff (UK), Costa (USA), Davies (USA), De Paulo (USA), Feinberg (USA), Haig (USA), Hatada (Japan), Ito (Japan), Jirtle (USA), Keverne (UK), Negishi (USA), Oshimuro (Japan), Polychronakos (CAN), Reik (UK), Skuse (UK), Tilghman (USA)

Poster abstracts must be submitted by August 21, 1998.

For registration information, please visit the Symposium web-site at: <http://dir.niehs.nih.gov/conference/genomeimprint>

For additional information, contact Dr. Frederick Tyson at (919) 541-0176; fax: (919) 541-5002; e-mail: [tyson2@niehs.nih.gov](mailto:tyson2@niehs.nih.gov).

## FELLOWSHIP

### POSTDOCTORAL FELLOWSHIPS

The Mary Ingraham Bunting Institute of Radcliffe College, a multidisciplinary residential research center, offers **FELLOWSHIPS** for women scholars, scientists, artists, and writers. Office space, auditing privileges, and access to libraries and most other resources of Radcliffe College and Harvard University are provided. Residence in the Boston area and participation in the Institute community are required during 11-month fellowship appointment (begins September 1999). Write or call for application: 34 Concord Avenue, Cambridge, MA 02138.

Phone: 617-495-8212.

E-mail: [bunting\\_fellowships@radcliffe.harvard.edu](mailto:bunting_fellowships@radcliffe.harvard.edu).

### BUNTING FELLOWSHIP PROGRAM

Deadline: October 1, 1998 (postmarked)

Open to women scholars in any field with receipt of a doctorate or appropriate terminal degree at least two years prior to appointment, which begins September 15, 1999. Creative writers and visual artists must meet specific eligibility requirements (please see separate creative arts announcement for guidelines). Eight to ten \$36,500 stipends awarded annually. **Bunting Fellows may not simultaneously hold another major fellowship that provides more than \$20,000.**

### SCIENCE SCHOLARS FELLOWSHIP PROGRAM

Deadline: October 1, 1998 (postmarked) Funding pending.

Open to women scientists in all fields, with preferences for those fields and ranks in which women are disproportionately underrepresented and for women at a critical juncture in their career. Minimally two years of postdoctoral work.


### BIOMEDICAL RESEARCH FELLOWSHIP PROGRAM

Deadline: October 1, 1998 (postmarked)

Open to women who have held a Ph.D. in any field of biomedical research for at least two years prior to appointment, which begins September 15, 1999. *Must be U.S. citizen or permanent resident.* Two \$41,600 stipends plus \$3,000 in research expenses awarded annually.



**CHAIRPERSON**


**Department of Microbiology and Immunology**  
**Weill Medical College of Cornell University**

The Weill Medical College of Cornell University, formerly the Cornell University Medical College, seeks a distinguished scientist for appointments as Professor and Chair, Department of Microbiology and Immunology, Weill Medical College of Cornell University. Candidates must present evidence of outstanding accomplishment in research, commitment to the educational mission of the Medical College and capability as an administrator.

Send a current curriculum vitae, which includes a list of publications to: Dr. Ralph Nachman, Chair, Microbiology and Immunology Search Committee, Room F-433, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021. You may also reply by e-mail at [chair-search@mail.med.cornell.edu](mailto:chair-search@mail.med.cornell.edu). For more information you may visit our Web page at <http://www.med.cornell.edu/chair-search>.

EEO/AA/M/F/D/V

**Chairman, Department of Oncology**  
**Montefiore Medical Center**  
**Albert Einstein College of Medicine**  
**Comprehensive Cancer Center**

Candidates with a nationally recognized research program, peer-reviewed funding and record of development of young physician-investigators are invited to apply for the position of Chair of the Department of Oncology. The Chair will play a major role in the senior leadership of the Albert Einstein College of Medicine Comprehensive Cancer Center (AECCC) and will oversee expansion of the Center's translational research activities.

The Department of Oncology, a major component of the AECCC clinical program, is an important site for investigator-initiated clinical trials and ECOG pilot studies with an established autologous and allogenic bone marrow transplantation program. AECCC is one of the first cancer centers funded by NCI with nine established research programs; five basic, and four clinical/translational. There are thirteen core facilities that support basic and clinical investigation.

Montefiore Medical Center, the University Hospital for the Albert Einstein College of Medicine, is a major tertiary health care center in the region. There are two hospital campuses with modern inpatient (65 beds) and outpatient facilities. The Moses Division, in the northeast Bronx, serves much of the borough and Southern Westchester. The Weiler Division, adjacent to the medical school, is located in a residential neighborhood minutes from Westchester County and close to Connecticut, Queens, Long Island, and Manhattan.


Applicants are invited to submit their curriculum vitae to:

**I. David Goldman, M.D.**  
**Director, Albert Einstein Comprehensive Cancer Center**  
**Chair, Oncology Search Committee**  
**Albert Einstein College of Medicine**  
**Jack and Pearl Resnick Campus**  
**Chanin Two**  
**2300 Morris Park Avenue**  
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 Toward the  
 advancement of medicine  
 ...and your career



**GLOBAL OPPORTUNITIES**

  
**UNITED ARAB EMIRATES UNIVERSITY**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**  
**Assistant Professor/**  
**Associate Professor/Professor for**  
**Department of Human Anatomy**

Applications invited for FMHS established in 1986 to become an international centre of excellence. The language of instruction is English. Applicants must possess a PhD degree in a branch of morphological science or an MD degree obtained by research, and have a minimum of three years experience of teaching human anatomy to undergraduate medical students in North America, Europe or Australasia. Applicants must have taught topographical anatomy and have additional experience in either histology, embryology or neuroanatomy. It is expected that applicants will show strong evidence of research abilities with a minimum of three publications in international, peer reviewed journals for the level of Assistant Professor.

Appointees receive tax free salary, accommodation, annual air tickets, award at the end of each year of service, generous support for furniture, and contribution to children's tuition. With all the amenities of any modern society, the Emirates has one of the most enviable lifestyles in the Middle East. Further information:

Professor D.J. Pallot  
 Chairman, Anatomy  
 United Arab Emirates University  
 Faculty of Medicine and Health Sciences  
 P O Box 17666  
 Al Ain, United Arab Emirates  
 or by Fax No: +971 3 672033

Applications will be closed six weeks after the date of publication.

**Australian National Wildlife Collection,**  
**Canberra, Australia**

  
**Curator/Research**  
**Leader**

**\$56K - \$79K + Superannuation**

We are seeking a research biologist experienced in the management and development of preserved biological collections as Curator-in-Charge of the Australian National Wildlife Collection, based at CSIRO Wildlife & Ecology, Canberra, Australia.

You will lead the research projects of the Collection as well as overseeing and managing its security and maintenance. You will be developing the production of biodiversity information and undertaking entrepreneurial and development projects to increase the Collection's profile.

An information package can be obtained by fax from 61 2 6241 3343, email [k.lewis@dwe.csiro.au](mailto:k.lewis@dwe.csiro.au) or visit our website <http://www.dwe.csiro.au/employment/>

**Applications close September 30 1998.**

**Australian Science, Australia's Future**

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## POSITIONS OPEN

### FACULTY POSITIONS PROTEIN STRUCTURAL BIOLOGY

The Biochemistry Department at North Carolina State University invites applications for two tenure-track faculty positions in protein structural biology at the **ASSISTANT PROFESSOR** level. Individuals with strong research programs in other areas of biochemistry may also be considered. The new positions will complement existing areas of excellence in protein biochemistry, nucleic acid structure/function, NMR, molecular virology, and plant molecular biology. The Department is in the College of Agriculture and Life Sciences, is affiliated with the College of Physical and Mathematical Sciences, and has interactions with many scientists in the Research Triangle area. Both positions have competitive start-up packages. Qualified applicants should provide a curriculum vitae, a research statement, a description of teaching interests, and three letters of reference. The review process will begin October 15, 1998, and continue until the positions are filled. Application material should be sent to:

Chair, Faculty Search Committee  
Department of Biochemistry  
Box 7622, 128 Polk Hall  
North Carolina State University  
Raleigh, NC 27695-7622

Website: <http://www2.ncsu.edu/ncsu/cals/biochem/index2.htm>

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, veteran status, or disability.

### NEUROPATHOLOGIST UNIVERSITY OF MINNESOTA

#### Department of Laboratory Medicine and Pathology

Faculty position available in neuropathology at the rank of **ASSISTANT PROFESSOR** (tenure-track). Minimum requirements are M.D., and Board-certified/Board-eligible in anatomic pathology and neuropathology, eligible for medical licensure in Minnesota. Demonstrated research productivity is necessary and experience or interest in dementia is desirable. Excellent opportunities exist for interaction with University research and graduate programs in neuroscience, cell biology, and microbiology, immunology, and molecular pathobiology (MIMP). Applicant will participate in providing neuropathological services to Fairview University Medical Center and University-affiliated hospitals. Teaching responsibilities will include residents in anatomic pathology, neurology, neurosurgery, and medical students.

Applicants please send curriculum vitae, three letters of recommendation, and a brief summary of research activities by September 15, 1998, to:

Neuropathology Search Committee  
c/o Marilyn Green

Department of Laboratory Medicine and Pathology  
Box 609, 420 Delaware Street S.E.  
Minneapolis, MN 55455

Or respond directly by e-mail: [green025@maroon.tc.umn.edu](mailto:green025@maroon.tc.umn.edu).

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

### RESEARCH SCIENTIST POSITIONS ASSISTANT/ASSOCIATE PROFESSOR CELL BIOLOGIST AND MOLECULAR GENETICIST University of Ottawa Heart Institute

Successful candidates will collaborate with an existing group of five Principal Investigators working in lipoprotein metabolism, cell biology, and atherosclerosis. Applicants are required to have an M.D. and/or Ph.D. with three or more years of postdoctoral experience. One position is for a Cell Biologist who will establish a program centered on cellular cholesterol trafficking or receptor-mediated endocytosis. The second position is for a Molecular Geneticist with experience in linkage analysis, association, and metabolic studies to join a group interested in the genetic determinants of lipoprotein concentrations and other coronary heart disease (CHD) risk factors.

Application including curriculum vitae, statement of research interest, and names of three references should be sent to: **Dr. Y. L. Marcel, Director of Academic Affairs, H460, University of Ottawa Heart Institute, 40 Ruskin Street, Ottawa, Ontario K1Y 4W7 Canada. FAX: 613-761-5281; e-mail: [abuie@heartinst.on.ca](mailto:abuie@heartinst.on.ca).**

All eligible candidates will be considered but, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

## POSITIONS OPEN

### MICROBIOLOGY POSITION IN ENVIRONMENTAL ENGINEERING

The Civil Engineering Department at Northwestern University invites applications for tenure-track **ASSISTANT PROFESSOR** position in its environmental engineering program. The position is for an outstanding Microbiological Scientist eager to develop a program encompassing fundamental to applied scholarship that addresses innovations and advances in environmental biotechnology. Applicants must possess an earned doctorate in microbiology or related field. They will be expected to thrive in and promote our highly interdisciplinary intellectual setting, which educates graduate and undergraduate students in a wide range of environmental sciences and quantitative skills. The ideal candidate should have an established record of achievement in microbial physiology, microbial genetics, geomicrobiology, microbial ecology, or related disciplines of relevance to environmental systems. Postdoctoral experience is highly desirable. The capacity to develop an externally funded research program—individually and in concert with other faculty—is essential. The salary is highly competitive and depends on the successful candidate's qualifications.

Northwestern's environmental engineering program currently is composed of eight faculty who emphasize environmental microbiology and chemistry directed toward natural and engineered aquatic systems. The program has extensive capabilities in molecular biology and analytical chemistry, and this position expands our faculty in order to deepen our strength in environmental microbiology.

The position is available 1 September 1999. A letter describing research and teaching interests, an academic résumé, and the name and contact information for at least three professional references should reach the search committee by 30 September 1998 in order to ensure full consideration, but the search will continue until a suitable candidate is hired. Application materials should be sent to: **Dr. Bruce E. Rittmann, Environmental Microbiologist Search Committee, Department of Civil Engineering, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208-3109 USA.** Further information can be found on the program's website: <http://www.civil.nwu.edu/che>. *Northwestern University is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged. Hiring is contingent upon eligibility to work in the United States of America.*

### SCIENCEDIA: SENIOR SCIENTIST

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

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

Competitive salary, benefits, and opportunity for significant equity participation. Interested individuals are invited to submit curriculum vitae to: **ScienceMedia, Inc., 6540 Lusk Boulevard C148, San Diego, CA 92121, Attn: Human Resources.** Electronic submissions to e-mail: [hr@sciencemedia.com](mailto:hr@sciencemedia.com); website: <http://www.sciencemedia.com>.

Molecular Neurobiologist/Neuroimmunologist (**RESEARCH ASSOCIATE/INSTRUCTOR/ASSISTANT PROFESSOR**) to join multidisciplinary neuroscience group pursuing studies on cellular and molecular mechanisms by which central neuronal pathways offer protection from neuronal death *in vitro* and *in vivo*. Background/experience in either and/or inflammation (cytokines), cell death/survival, genomics. Skills in molecular biology essential. The individual will also direct a Molecular Biology Core and manage collaborative interactions academically and with industry. Strong opportunities exist for academic advancement at Cornell University Medical College. Contact: **D. J. Reis, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021. E-mail: [djreis@mail.med.cornell.edu](mailto:djreis@mail.med.cornell.edu).** *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

## POSITIONS OPEN

### STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions are available for **TENURE-TRACK** faculty appointments, **OPEN RANK**, in the general areas of organic chemistry or inorganic chemistry.

Completed applications must be received by October 15, 1998. Appointment will commence on or after September 1, 1999.

Applicants must be strongly motivated toward creative research and committed to teaching at the undergraduate and graduate levels.

All applications must include the following materials: a current curriculum vitae and list of publications; a brief statement of research interests (three pages or less); and arrange to have three letters of reference sent on your behalf to the Chair of the appropriate search committee (see below).

Applications in the general area of organic chemistry should be addressed as follows:

Chair, 1998–99 Organic Chemistry  
Search Committee  
Department of Chemistry  
Stanford University  
Stanford, CA 94305-5080

Applications in the general area of inorganic chemistry should be addressed as follows:

Chair, 1998–99 Inorganic Chemistry  
Search Committee  
Department of Chemistry  
Stanford University  
Stanford, CA 94305-5080

*Stanford University is committed to Equal Employment Opportunity through Affirmative Action and is eager to identify minority persons and women with appropriate qualifications.*

### ASSISTANT ADJUNCT PROFESSOR OF ANATOMY AND PHYSIOLOGY

The Departments of Anatomy and Physiology at University of California, San Francisco (UCSF) invite applications for Assistant Adjunct Professor. The successful candidate will serve as coordinator of gross anatomy dissection and lectures and will have documented excellence in the teaching of gross anatomy and organ systems physiology to medical, dental, and pharmacy students. A Ph.D. or M.D. or equivalent doctoral-level degree is required. Research experience (including a record of publication) that will bring a scientific perspective to the teaching is highly desirable.

To apply, send curriculum vitae and request that three letters of recommendation be sent to:

Gross Anatomy and Systems Physiology  
Search Committee  
Department of Anatomy  
University of California, San Francisco  
513 Parnassus Avenue  
Room S1364  
San Francisco, CA 94143-0452

All material should be received by August 15, 1998.

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

### CONSERVATION BIOLOGIST TENURE-TRACK

The Department of Zoology at North Carolina State University seeks applicants for **ASSISTANT PROFESSOR** of conservation biology. This tenure-track position requires teaching and advising of undergraduate and graduate students, including the department's sophomore-level core course in ecology, evolution, and behavior, and development of an externally funded research program. Candidates should show potential for excellence in teaching and demonstrated research accomplishment in conservation biology. A Ph.D. is required. Postdoctoral experience is preferred. This position is available on or after 1 November 1998. Applications will be reviewed beginning 1 August 1998 until the position is filled. A letter of application, statements of teaching philosophy and research interests, a curriculum vitae, and three letters of reference should be sent to: **Search Committee, Dr. James F. Gilliam, Department of Zoology, Box 7617, North Carolina State University, Raleigh, NC 27695.** Additional information is available on our website: <http://www.cals.ncsu.edu/zoology/>. *NC State University is an Equal Opportunity/Affirmative Action Employer.*

## EUROPEAN OPPORTUNITIES

### University of Heidelberg

The Center for Molecular Biology of the University of Heidelberg (ZMBH) invites applications for a **FULL PROFESSORSHIP IN MOLECULAR BIOLOGY (C4)**. The successful candidate will contribute to the research activities at the ZMBH, which focus on

- regulation of gene expression
- molecular cell biology and neurobiology
- developmental biology
- molecular mechanisms of pathogenicity

Collaboration with the research groups of the ZMBH as well as participation in the research programs sponsored by the Deutsche Forschungsgemeinschaft (SFB) will be expected. The successful candidate will furthermore participate in the department's teaching program.

The ZMBH presently houses 15 independent research groups and offers an excellent research environment including central facilities for DNA and peptide synthesis, microsequencing of proteins, transgenic animal facility, as well as centralized administration and technical services. Further information can be obtained from the ZMBH homepage <http://www.zmbh.uni-heidelberg.de>.

Applications should be received by the Director of the ZMBH, Im Neuenheimer Feld 282, D-69120 Heidelberg, not later than 31.08.1998.

## GLOBAL OPPORTUNITIES



Founded 1905

### TROPICAL MARINE SCIENCE INSTITUTE National University of Singapore Director

Applications are invited for appointment to the position of Director of the newly formed Tropical Marine Science Institute (TMSI) at the National University of Singapore (NUS). The TMSI is a stand-alone institute within the NUS with close links to most NUS faculties. The appointment will be for a period of 3 years in the first instance and will carry the optional title of Professor.

The TMSI is currently based on the NUS campus but is developing coastal research facilities on an off-shore island situated approximately 4 km south of the main island of Singapore. The TMSI has five integrated research programmes: Marine Biology & Biotechnology; Marine Aquaculture; Marine Mammal Research; Physical Oceanography; and Acoustic Research. The TMSI is also developing a postgraduate teaching programme.

The successful applicant should have a distinguished reputation in at least one of the above areas of marine science or in related areas of marine technology, with extensive experience of research management. Research experience in tropical marine science is strongly preferred though not essential.

All five research programmes of the TMSI are ongoing and each has a Head of Research. The Director will be responsible for directing and coordinating the research programmes to ensure maximum integration and synergy. A good motivator and cultivator of team spirit will therefore be an essential attribute for the Directorship. Applicants should highlight their vision for research and teaching directions of the new Institute.

The successful candidate will be offered a competitive salary which commensurate with his/her qualifications and experience. Leave and medical benefits will also be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing, education allowance for up to three children subject to a maximum of \$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

The TMSI encourages applications and nominations from all sources by the closing date of **31 July 1998**. Only shortlisted candidates will be notified.

Applications including the names of ten referees should reach:

**Dr Elizabeth A. Taylor, Deputy Director, Tropical Marine Science Institute, National University of Singapore, 14 Kent Ridge Road, Singapore 119223. Tel: 065-774 9651/2; Fax: 065-7749654.**

For further details about the TMSI please see the TMSI web site: <http://tursiops.nus.edu.sg/>  
For additional information on the University, please refer to: <http://www.nusedu.sg/>.

## EUROPEAN OPPORTUNITIES

### Max-Planck-Institute of Biochemistry Martinsried, Germany

#### Department Membrane Biochemistry

Applicants are invited for a **postdoctoral research fellowship** to explore light-induced structural changes in archaeal retinal membrane proteins by cryo- and time-resolved crystallography. The position is funded by an EU Biotech grant for revealing the structural dynamics of proton pumps by advanced synchrotron technology; duration will be two years with possible extension thereafter. Applicants with a background in crystallography and interests in membrane proteins or spectroscopy are highly encouraged. Modern facilities for biochemistry, microspectroscopy, and X-ray crystallography are established in the department.

Applications including a full CV and names and addresses of two referees should be addressed to:

**Prof. Dieter Oesterhelt, Max-Planck-Institut für Biochemie, Am Klopferspitz 18a, D-82152 Martinsried bei München, Germany.** Informal enquiries can be made to **Dr. Lars-O. Essen, e-mail: [essen@biochem.mpg.de](mailto:essen@biochem.mpg.de), phone: +49-89-8578-2359.**



### Max-Planck-Institute for Neurobiology

The Max-Planck-Institute for Neurobiology, Department of Neurophysiology, (formerly: Max-Planck-Institute for Psychiatry, Institute for Basic Sciences, Munich-Martinsried) offers the opportunity to set up an

#### INDEPENDENT RESEARCH GROUP in the field of SYSTEMS NEUROBIOLOGY

We are looking for a young individual who will work independently but at the same time would interact closely with the work of the department of

- **Neurophysiology (Head: Tobias Bonhoeffer): Structure, Function, and Development of the Visual Cortex, Mechanisms of Synaptic Plasticity in the CNS**

He/she should also be likely to benefit from work in the other departments:

- **Neurobiochemistry (Y. A. Barde):** Biology and Molecular Biology of Neurotrophins
- **Neuroimmunology (H. Wekerle):** Interactions between the Nervous and the Immune System
- **Neuromorphology (G. Kreutzberg):** Peripheral Nerve Regeneration and Microglial Cells

and/or Research Groups:

- **M. Götz:** Mechanisms of Regional Specification in the Vertebrate CNS
- **S. Stamm:** Molecular Mechanisms and Function of RNA Splicing in Neurons
- **H. Thoenen:** Storage and Release of Neurotrophins, Roles of Neurotrophins in Synaptic Plasticity

The position will be limited to 5 years, the salary being within the German University scale C3. The Department of Neurophysiology will provide appropriate space, infrastructural support, running costs, a technician, as well as resources to finance one additional postdoc or graduate student. Acquiring further support from extramural funds (DFG, EU, HFSP, etc.) will be strongly encouraged.

Individuals with a proven research record should send a tabular curriculum vitae, a list of publications, as well as a short description of their scientific work, both achieved and intended, to **Dr. Tobias Bonhoeffer, MPI for Neurobiology, Am Klopferspitz 18A, 82152 Munich-Martinsried, Germany.** Deadline for applications is 15 September 1998.

Further information about the Institute can be found on its website [www.neuro.mpg.de](http://www.neuro.mpg.de).



## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR TENURE-TRACK Department of Molecular Pharmacology and Toxicology School of Pharmacy University of Southern California

Applicants for the position of Assistant/Associate Professor (tenure-track) are invited to join an established department with a long-standing record of extramural support and teaching excellence. Start-up funds and excellent space are available. The successful candidate should have demonstrated ability, or an exceptional promise, in directing a state-of-the-art, extramurally funded research program addressing important questions at the cellular and molecular level. Applicant should have significant experience or an appropriate background to participate in teaching professional and graduate programs. Current research in the department includes free radical biochemistry and toxicology, gene expression and regulation, neurobiology, and signal transduction. Applicants should send a description of current research and future plans, curriculum vitae, and the names, addresses, and telephone numbers of three references to: **Dr. David Ann, Search Committee Chair, University of Southern California, PSC 700, 1985 Zonal Avenue, Los Angeles, CA 90033. E-mail: ann@hsc.usc.edu.** Closing date is August 31, 1998, or until the position is filled. Please visit our website: <http://www.usc.edu/hsc/pharmacy/graduate-programs.html>. *Equal Opportunity Employment/Minorities/Females/Disabled.*

The Department of Biological Sciences at Louisiana State University (LSU) invites applications for an anticipated **TENURE-TRACK** faculty position in the area of evolutionary theory (phylogenetic theory/molecular phylogenetics/speciation).

LSU has outstanding computer facilities, including advanced parallel computing laboratories, and it is likely that the successful applicant will use and develop computer-based algorithms in his or her research area. The applicant will have the ability and interest to interact with more than 35 experimentally oriented scientists in LSU's interdepartmental systematics and evolutionary biology group. Teaching responsibilities will depend on the experiences of the applicants and needs of the department. Applicants must have a Ph.D. or equivalent degree in a biological science, and postdoctoral experience in an appropriate area of evolutionary theory or related field is desirable. Salary and rank will be commensurate with education and experience. Send curriculum vitae, statements of teaching and research interests, and the names and e-mail addresses of three references by mail to: **Dr. Meredith Blackwell, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803. E-mail: btblac@unix1.sncc.lsu.edu.** Review of applications will begin on October 1, 1998. For additional information about the Department of Biological Sciences visit our website: <http://chrs1.chem.lsu.edu/~biosci/>. Reference number 0040.

*An Affirmative Action/Equal Opportunity Employer.*

### VASCULAR BIOLOGY GROUP THE UNIVERSITY OF OTTAWA HEART INSTITUTE

**GROUP LEADER.** We seek a motivated, innovative scientist with a strong track record to lead and expand a vascular biology group with the support of the Division of Cardiology and the Department of Pathology and Laboratory Medicine. The position is for a tenured Chair in vascular biology with a primary appointment as Professor of pathology. The selected candidate will assist in the recruitment of additional scientists to the group.

**VASCULAR BIOLOGIST.** M.D. and/or Ph.D. with a minimum of three years of postdoctoral experience in the molecular and cellular biology of the cardiovascular system to develop an independent research program and collaborate with other members of the group. Appointment at Assistant or Associate Professor level, depending on experience.

Please submit curriculum vitae including publications, funding history, summary of current research interests, and three references to: **Dr. Yves Marcel, Director of Academic Affairs, H460, University of Ottawa Heart Institute, 40 Ruskin Street, Ottawa, Ontario K1Y 4W7 Canada. FAX: 613-761-5281; e-mail: research@heartinst.on.ca.**

*All eligible candidates will be considered but in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent resident of Canada.*

## POSITIONS OPEN

### **c<sup>2</sup> Biotechnologies**

c<sup>2</sup> Biotechnologies is a start-up genetic analysis company with focus on fully integrating nanotechnology and various solid-state techniques with molecular biology. Currently, we are developing new technologies for supplanting DNA chips, Sanger sequencing, and traditional PCR diagnostics. The following position is available.

**SENIOR SCIENTIST.** Requires a Ph.D. and postdoctoral experience with expertise in the following combination of fields: nano/microfabrication, surface chemistry, and DNA biophysics. Industry experience favorable. Successful track record of writing grants and strong oral communication skills a must. Enthusiastic and energetic individuals will thrive in the company's entrepreneurial corporate culture. Mail or FAX curriculum vitae, a list of references, and salary history to: **c<sup>2</sup> Biotechnologies, Inc., Attn: Human Resources, 8 Saint Mary's Street, 9th Floor, Boston, MA 02215. FAX: 617-353-7271.**

**RESEARCH ASSISTANT** needed by a southwest Ohio University to perform basic research in cardiac muscle proteins and DNA sequence analysis. Perform biomolecular NMR, hydrodynamic measurements, PCR, and cloning of cardiac genes. Perform isotopic labeling and purification of proteins. Perform FPLC for protein purification using SDS gels for protein analysis and quantification. Must have M.S. in chemistry, biochemistry, or biology. Must have one year of experience in job offered or one year of experience performing the following: biomolecular NMR, hydrodynamic measurements, PCR, cloning cardiac genes, and isotopic labeling and purification of proteins. Experience may be gained concurrently and may be gained before, during, or after M.S. In lieu of experience, applicant may qualify with Master's thesis using these skills. Work schedule: 40 hours per week 9:00 a.m. to 5:00 p.m. Monday through Friday; rate of pay \$26,676 per year. *Must have proof of legal authority to work permanently in the United States.* Send two résumés and cover letters (no calls) to: **ES Sp Programs, Ref# 3903JD, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

Position open. **DIRECTOR** of David H. Smith Conservation Research Fellowship Program. The Nature Conservancy (TNC) seeks a Ph.D. scientist in conservation biology, natural resource management, ecosystem ecology, or a related field to create and manage the nation's first Postdoctoral Fellowship program focused on conservation biology. To build and manage this new program the Director will identify outstanding Postdoctoral Fellows; match and oversee relationships between Fellows and academic and TNC mentors; develop relationships with key academic institutions; promote research to strengthen TNC's site-based biodiversity conservation; and publicize the program. For detailed job description see website: <http://www.tnc.org> or contact: **M. Perez, Telephone: 703-841-4845; e-mail: mperez@tnc.org.** Submit application by August 11, 1998, to: **Dr. E. Chornesky, The Nature Conservancy, 1815 North Lynn Street, Arlington, VA 22209.**

The Nature Conservancy (TNC) has an opening for the position of **NATIONAL RESTORATION ECOLOGIST.** This scientist will coordinate and articulate TNC's ecological restoration strategy; provide planning, training, research guidance, and information to field staff; liaise with the scientific community, restoration practitioners, regulators, and TNC staff; and develop research projects with TNC staff and partners. Position based in Arlington, Virginia. Requires advanced degree in conservation biology, restoration ecology, or related field, and three years of experience in applied restoration and monitoring. Search closes September 30, 1998, and position starts November 1998. For detailed job description see website: <http://www.tnc.org> or contact: **Monica Perez, Telephone: 703-841-4845; e-mail: mperez@tnc.org.**

**RESEARCH ASSOCIATE** positions available immediately for recent Ph.D.'s or M.D.-Ph.D.'s with experience in molecular genetics, molecular biology, biochemistry, protein chemistry, cell biology. Research, as part of a highly interactive group, involves identification of molecular and biochemical mechanisms of neuronal degeneration in disorders of motor neuron. Send curriculum vitae and names of three references to: **Dr. Teepu Siddique, Department of Neurology, Tarry 13-715, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-0865.** *Equal Opportunity/Affirmative Action Employer; minorities and women encouraged to apply.*

## POSITIONS OPEN

### IMMUNOLOGIST/CANCER BIOLOGIST THE BEN MAY INSTITUTE FOR CANCER RESEARCH The University of Chicago

The University of Chicago is seeking applicants for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. The Ben May Institute for Cancer Research (BMICR) is a basic research unit that for 45 years has been committed to the study of basic mechanisms of cancer and immunology. The current faculty is committed to an interdisciplinary approach using established and newly emerging biochemical, genetic, molecular, and structural biological tools to attack basic problems in cancer biology and immunology including, but not limited to: cell growth and differentiation; signal transduction, structural biology, and immunotherapy.

The BMICR is closely interfaced with the University of Chicago NCI-designated Comprehensive Cancer Center, the University of Chicago Center for Molecular Oncology, and the Gwen Knapp Center for Lupus and Immunology Research. Additionally, the BMICR is closely affiliated with degree-granting committees on immunology and cancer biology. Candidates should have sufficient research experience to demonstrate both significant accomplishments and outstanding potential. Letters of recommendation including curriculum vitae, bibliography, a brief statement of research interest, and the names of three references should be sent to: **Search Committee, Ben May Institute for Cancer Research, 5841 South Maryland Avenue, MC6027, Chicago, IL 60637.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

### ELECTRON MICROSCOPIST

Electron Microscopist to play crucial role in development of newly formed interdepartmental electron microscopy laboratory. Minimum of Bachelor's degree and three years of experience. Specific duties include all aspects and stages of basic TEM specimen preparation and electron microscope maintenance; fixation, dehydration, infiltration, and polymerization of basic epoxy-type resins. Thin sectioning and poststaining skills and darkroom skills are essential. Immunolabelling procedures using immunogold with lowicryl or LR White resins and/or cryosectioning preferred. Must be comfortable in providing support and advice to a wide range of users and must have sufficient independence on the TEM to align and maintain an H-600. Send résumé/curriculum vitae and list of references to: **M. Wolter, Electron Microscopist Search, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.** *MCW is an Equal Opportunity Employer.*

### ROBERT S. DOW CHAIR IN NEUROLOGICAL RESEARCH

Legacy Health System, an 800-bed nonprofit provider in Portland, Oregon, invites applicants to fill a newly created Endowed Chair. Candidates are expected to have achieved international peer recognition and contributed to prominent publications in the neurosciences. The successful candidate will develop a balanced program of clinical and basic research using both internal and external funding. Laboratory space, animal facilities, and outpatient clinics are available in a new 60,000-square foot research center.

Please submit a curriculum vitae and names of three references to:

**Lutz A. Kiesow, M.D., Ph.D.**  
Chief of Legacy Research  
Chairman, Search Committee  
P.O. Box 3950  
Portland, OR 97208-3950  
FAX: 503-413-4942  
E-mail: [lkiesow@lhs.org](mailto:lkiesow@lhs.org)

**SCIENTIST POSITION.** Positions are available in a biotechnology company that will soon relocate to Toronto, Canada. Interested applicants with M.S. and Ph.D. degrees and training in one or more of the following research areas are invited to apply: mammalian molecular biology, microbiology and infectious diseases, immunology, pharmacology, and oligonucleotide biochemistry. Please send curriculum vitae with references to: **Dr. Wright and Dr. Young, GeneSense Technologies, Inc., 100 Olivia Street, Room ON 222, Winnipeg, Manitoba R3E 0V9 Canada. FAX: 204-787-2938.**



## Group Leader Posts in Biomedical Research

The Wolfson Institute for Biomedical research (formerly The Cruciform Project) is a major research initiative that will be sited in the former University College Hospital, an imposing cruciform-shaped Victorian building located at the heart of UCL. The building is currently being refurbished to house 250-300 researchers and will provide an interactive and integrated environment that encourages synergism between the different biological disciplines, between fundamental and clinically-orientated research, and between biological research and medicinal chemistry. It aims to conduct high-quality basic, strategic and applied research that is relevant to human diseases. The Institute has been recruiting staff and developing its research for the last two and a half years and now has 120 staff and a research income of over £5 million p.a. The Institute maintains and *encourages* active links with existing preclinical and clinical departments within UCL.

We are now seeking up to 3 scientists with excellent track records in research to participate in this venture. We would be interested in hearing both from highly promising younger individuals who are seeking to establish their own independent research groups and from more senior scientists who wish to move with their existing groups. Our current strengths are in:

- **Cardiovascular Biology**

Mechanism of release, distribution and actions of nitric oxide, biology of the soluble guanylyl cyclase, phenotype and characterization of transgenic mice, role of nitric oxide in cell respiration, septic shock and inflammation, cell signalling in atherosclerosis.

- **Neuroscience**

Neurodegeneration, metabotropic glutamate receptors, nitric oxide signalling, synaptic plasticity, ion channels.

- **Microbial Pathogenicity and Cancer**

Molecular genetic analysis of the role of angiogenesis in tumour biology, molecular signalling mechanisms in tumour growth, host-pathogen interactions and basic mechanisms of pathogenicity and structural analysis of virulence factors.

**For further details of our current research see our web page [<http://www.ucl.ac.uk/WIBR>]**

We provide outstanding research facilities in all areas of modern biological research, and extensive expertise in medicinal chemistry. Successful applicants will be offered a very competitive salary as part of an attractive start-up package and laboratory space for a team of up to 10 people.

Inquiries may be made to Professor Salvador Moncada FRCP FRS, (email: [s.moncada@ucl.ac.uk](mailto:s.moncada@ucl.ac.uk), Tel: 0171 209 6343), or Professor Ken Powell (email: [kenneth.powell@ucl.ac.uk](mailto:kenneth.powell@ucl.ac.uk), Tel: 0171 504 4175) of The Wolfson Institute for Biomedical Research, 140 Tottenham Court Road, London W1P 9LN.



**The closing date for applications is 14th August 1998.**

**Applications including a CV, names and addresses of 3 referees and a covering letter should be sent to Dr D Beales, The Wolfson Institute for Biomedical Research, 1 Wakefield Street, London WC1N 1PJ.**

**Tel: 0171 504 4080, e-mail [denise.beales@ucl.ac.uk](mailto:denise.beales@ucl.ac.uk)**

WORKING TOWARDS EQUAL OPPORTUNITY



## POSITIONS OPEN



The USDA, Gene Evaluation and Mapping Laboratory, Beltsville, Maryland is seeking a **RESEARCH ANIMAL PHYSIOLOGIST/MOLECULAR GENETICIST**, GS-11/12 (salary range is \$39,270 to \$61,190), to investigate nuclear transfer as a tool to genetically improve farm animals. Research will include building gene constructs, establishing stable transfected cell lines; homologous recombination; cell cycle synchronization; oocyte maturation, activation, and enucleation; nuclear transfer; and embryo culture and transfer. In addition to the basic education requirements, applicants must demonstrate knowledge of reproductive physiology or molecular genetics as applied to mammalian transgenesis. Ability to plan, conduct, interpret, present, and publish research on reproductive physiology or molecular genetics. Skills required: (1) design and fabrication of fusion genes, (2) micromanipulation and *in vitro* culture of mammalian embryos, and (3) ability to conduct experiments on clonal propagation and gene expression of transfected cells. U.S. citizenship is required.

For information on the research program contact: **Vernon Pursel, Telephone: 301-504-8342; e-mail: vpursel@lpsl.barc.usda.gov**. Applicants must address specific education, experience, and skill factors indicated in vacancy announcement no. ARS-S8B-8253. **Telephone: 301-504-1369** for application packet or search Internet at **website: <http://www.ars.usda.gov>**. Applications must be postmarked by August 24, 1998. *USDA/ARS is an Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

The Department of Molecular Biotechnology at the University of Washington, Seattle, Washington, seeks well-qualified (Ph.D., M.D.-Ph.D., or M.D.) applicants for the position of Postdoctoral Research Fellow to participate in research projects in molecular oncology and development. This is a unique opportunity to study carcinogenesis of the prostate and other tissues using the high-throughput tools of modern biotechnology. The laboratory is involved in developing and evaluating new technologies for biomedical research. More information can be found at our **website: <http://chroma.mbt.washington.edu>**. NIH-scale salary and benefits are available. Preference will be given to candidates eligible for future external awards and Fellowships. Candidates should have extensive experience in molecular biology. Send a statement of research interests, curriculum vitae, and the names, addresses, and telephone numbers of three references to: **Betsy Connell, Administrator, Department of Molecular Biotechnology, Box 357730, University of Washington, Seattle, WA 98195. FAX: 206-685-7301. The University of Washington is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION BIOANALYTICAL CHEMIST

Department of Biochemistry, Stanford University has a Postdoctoral position open for research in the area of chemical analysis of secondary metabolites and their precursors. Candidate must have advanced training in solid phase extraction, high-performance liquid chromatography and/or capillary electrophoresis, and mass spectrometry. Candidate is expected to function effectively in a highly collaborative environment of Theoretical Chemists, Biochemists, and Microbiologists. Please send curriculum vitae, brief statement of prior research experience, and the names of three references to: **Dr. Peter Oefner, Department of Biochemistry, Beckman Center B400, Stanford University, Stanford, CA 94305-5307. E-mail: [oefer@genome.stanford.edu](mailto:oefer@genome.stanford.edu).**

**AQUATIC CHEMIST** for full-time field and laboratory research on the chemistry of nonpoint source pollution in surface and ground water, with emphasis on inorganic compounds. Ph.D. in chemistry or related field with training in limnology and soil science. Expected to publish in peer-reviewed journals, and seek external funding. Submit curriculum vitae, transcripts, publications, research goals, and three references to: **Dr. Theodore Andreadis, The Connecticut Agricultural Experiment Station, 123 Huntington Street, P.O. Box 1106, New Haven, CT 06504. Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### RESEARCH ASSOCIATE POSITION POSTDOCTORAL POSITIONS

Positions are available in the laboratory of **Prof. Ronald Wetzel** for studies on structural aspects of disease-related amyloid fibrils. Studies will focus on characterizing the specificity of formation of amyloid and other aggregate forms derived from the Alzheimer's peptide AB and from Huntington's disease-related polyglutamine sequences. Additional studies will characterize structure-function relationships of protein inhibitors of amyloid fibril formation. Candidates for the Research Associate position should have a Master's degree in biochemistry or related field, or a B.S. in one of these subjects plus four to ten years of work experience and/or training. Candidates for this position should be familiar with basic techniques in cDNA cloning, site-directed mutagenesis, and recombinant protein expression. Postdoctoral candidates will utilize a combination of chemical and recombinant synthesis of polypeptides to generate molecules of interest, and will study aspects of fibril formation and inhibition with these molecules using a variety of spectroscopic and structural methods. For description of the overall research program see **Dr. Wetzel's listing on the website: <http://utk-biogw.bio.utk.edu/bcmbdept.nsf>**. Positions offer competitive salary with outstanding University fringe benefit package. The University of Tennessee Medical Center at Knoxville is located in beautiful East Tennessee at the foothills of the Great Smoky Mountains, offering opportunities for year-round recreation and a blend of metropolitan conveniences and rural charm. Interested candidates may apply to:

**University of Tennessee Medical Center  
Department of Human Resources  
1924 Alcoa Highway  
Knoxville, TN 37920**

*UTMCK is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA/ADEA Employer.*

### MOLECULAR ONCOLOGY POSTDOCTORAL RESEARCH FELLOW

A position is available immediately at the American Health Foundation, an NCI-funded Cancer Center dedicated to cancer prevention, for a Postdoctoral Research Fellow to join a multidisciplinary interdivisional research group studying the molecular biology of lipid-regulated proteolytic enzyme production by tumor cells. The ideal appointee would have expertise in the general areas of molecular biology and signal transduction. Inquiries may be made to: **Dr. Tony Albino, Telephone: 914-789-7158 or Dr. David Rose, Telephone: 914-789-7145**. Applicants should send curriculum vitae and two letters of recommendation to: **The American Health Foundation, 1 Dana Road, Valhalla, NY 10595. FAX: 914-592-6317; e-mail: [talbino@aol.com](mailto:talbino@aol.com).**

*Equal Employment Opportunity/Minorities/Females/Disabled/Veterans/ADA.*

**POSTDOCTORAL POSITIONS** available to candidates with interest in the areas of signal transduction, synaptic remodeling, adhesion receptors, or cytoskeletal proteins. Projects include (1) regulation of integrin-induced transmembrane signaling, (2) role of the cytoskeleton in recruiting and activating signaling molecules, (3) regulation of synaptic remodeling. Candidates should have a strong background in molecular biology, neurosciences, or transgenic mouse technology. Please forward curriculum vitae and the names of three references to: **Dr. Joan E. B. Fox, Joseph J. Jacobs Center for Thrombosis and Vascular Biology (FF20), Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.**

### NEUROLOGY LABORATORY MANAGER

Supervises ordering, database, storage, exchange of reagents, equipment maintenance, and safety in a large molecular biology laboratory. Assists in the supervision of nonresearch personnel. Bachelor's in biological science (M.A. or Ph.D. preferred), familiarity with principles of molecular biology, and at least five years of experience in research or management required. Excellent organizational, computer, and interpersonal skills are necessary. Job Code: LMNJL-G. Please send a résumé and three letters of reference to: **Children's Hospital, Human Resources, 300 Longwood Avenue, Boston, MA 02115. No telephone calls, please.**

## POSITIONS OPEN



Nanogen Incorporated is an entrepreneurial biotechnology company with headquarters in San Diego. We're working at the interface of electronics and biology to provide exciting new functions for medical diagnostics and drug discovery. We have several openings for qualified individuals in our Advanced Technologies department. We seek Researchers with a Ph.D. in molecular biology, biochemistry, or chemistry and zero to two years of experience or M.S. with five-plus years of experience.

### SCIENTIST

Prepare, purify, and characterize PNA probes and peptide-PNA and peptide-nucleic acid probes. Research will also include the thermodynamics and kinetics of matched and mismatched hybridization with DNA and RNA targets. Code SD98043.

### SCIENTIST

Prepare, purify, and characterize enzyme-nucleic acid probe conjugates. Determine optimum sensitivity in various assay formats using fluorescence or chemiluminescent detection. Code SD98044.

For a complete list of openings, please visit our **website: [www.nanogen.com](http://www.nanogen.com)**.

Nanogen offers competitive compensation, comprehensive benefits, and an excellent work environment. If you are interested in working in a multidisciplinary, small-team environment, please mail or FAX your résumé and a cover letter stating salary requirements to: **Nanogen Inc., Attn: Human Resources, Code (see above), 10398 Pacific Center Court, San Diego, CA 92121. FAX: 619-546-7718; e-mail: [hr@nanogen.com](mailto:hr@nanogen.com)**. No telephone calls or agencies please. We will respond to employment inquiries by mail. *Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

A Postdoctoral position is available to study peripheral and spinal mechanisms underlying pain and hyperalgesia using correlative electrophysiological, immunohistochemical, and behavioral approaches. Specifically, we will explore the role of specific classes of sensory neurons in various aspects of pain and hyperalgesia/allodynia, and the mechanisms underlying sensitization. We are looking for a highly motivated individual who can work independently and cooperatively with a team of Investigators. Training is available, but preference will be given to those with a strong background in electrophysiology. Please send a curriculum vitae, a statement of career goals, and the names of three references to: **Dr. Donald Simone, Department of Psychiatry, University of Minnesota, 420 Delaware Street S.E., Box 392, Minneapolis, MN 55455. E-mail: [simon003@maroon.tc.umn.edu](mailto:simon003@maroon.tc.umn.edu).**

### POSTDOCTORAL POSITION PROTEIN CRYSTALLOGRAPHY AND MOLECULAR DYNAMICS SIMULATIONS University of Georgia

Postdoctoral position available to apply X-ray and MD methods to study lectin-peptide complexes. In these systems, the peptides mimic the endogenous carbohydrate ligands. Applicants should have a Ph.D. in chemistry or biochemistry. Proficiency in X-ray crystallography and MD simulations would be an asset, but is not required. UGA has state-of-the-art crystallography and computing facilities. Interested persons should send a curriculum vitae, names, telephone numbers, and e-mail addresses of three references to: **Robert J. Woods, Complex Carbohydrate Research Center, Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA 30602. E-mail: [rwoods@ccrc.uga.edu](mailto:rwoods@ccrc.uga.edu). Minorities and women are encouraged to apply.**

**POSTDOCTORAL POSITION** is available to study signal transduction pathways leading to modulation of the activities of transcription factors involved in differentiation and growth in mammalian cells. Biochemistry/molecular biology experience and interest to work with transgenic/knockout mice is essential. Institute of Molecular Medicine and Genetics is located in a newly designed building and contains state-of-the-art equipment. Please contact: **Nahid Mivechi, Ph.D., Institute of Molecular Medicine and Genetics, Medical College of Georgia, 1120 15th Street, CB2803, Augusta, GA 30912. FAX: 706-721-8752; e-mail: [mivechi@immag.mcg.edu](mailto:mivechi@immag.mcg.edu). The Medical College of Georgia is an Equal Opportunity Employer. Women, minorities, and disabled are encouraged to apply.**





THE BREAKTHROUGH TOBY ROBINS BREAST CANCER RESEARCH CENTRE  
at

The Institute of Cancer Research

## DIRECTOR

**SALARY NEGOTIABLE**

**CHELSEA, LONDON**

The Institute of Cancer Research is at the forefront of cancer research. With the Royal Marsden Hospital it forms a major comprehensive Cancer Centre of international status. Breakthrough Breast Cancer is an independent charity dedicated to supporting breast cancer research that will lead towards prevention and/or cure of the disease. Through our partnership, The Breakthrough Toby Robins Breast Cancer Research Centre is being established, located within the new extensions to the Institute's Chester Beatty Laboratories in Chelsea. Completion will be in Autumn 1999.

The Breakthrough Research Centre will have approximately 80-100 staff. We are seeking a highly talented Director to lead it. Breakthrough Breast Cancer is looking to provide start-up funds and continuing support of up to £3 million p.a. This development presents a unique opportunity for its Director to create and lead a world class centre of excellence in breast cancer research.

The Institute is an Associate Institution of the University of London, at which the Institute's senior staff may hold conferred or established chairs. There are currently 75 faculty members, increasing as new accommodation is built in a £40 million programme.

### The Position

- To establish and implement the research strategy of the Breakthrough Research Centre.
- To lead with his or her own research.
- To inspire the work of colleagues.
- To capitalise on the opportunities for close research collaborations within the Institute and elsewhere.
- To exploit opportunities for translation of research outcomes to development, for example, of novel therapies.

### The Requirements

- An outstanding scientist with major achievements in Biomedical Research.
- Strategic and visionary thinking to identify and implement powerful and coherent research programmes.
- Ability to identify and recruit high calibre staff, and to inspire, foster and facilitate their work.
- Skills to manage a wide network of relationships between the Breakthrough Research Centre and other laboratories and organisations.
- Commitment to the objectives of Breakthrough and the Institute.

*Further particulars can be obtained from The Secretary,  
The Institute of Cancer Research, 17a Onslow Gardens, London SW7 3AL.  
Formal applications should be sent to The Secretary, by Friday 28 August 1998.  
Informal enquiries can be made to Professor Peter Garland, Chief Executive  
on tel: 44 (0)171 352 8133 or fax: 44 (0)171 352 0272; or to Professor  
Stephen Neidle, Dean, on tel/fax: 44 (0)181 643 1675.*



## POSITIONS OPEN

### POSTDOCTORAL POSITION IN VASCULAR BIOLOGY NIH TRAINING PROGRAM

The Department of Physiology at Jefferson Medical College, Thomas Jefferson University, offers a Postdoctoral Training Program in physiology and pathophysiology of cardiovascular disorders. Current research areas for this position include mechanisms of myocardial ischemia reperfusion injury; endothelial mediators in the regulation of endothelial cell function; nitric oxide physiology; neutrophil migration; and the role of adhesion molecules in the interaction of leukocytes and endothelial cells in circulatory disorders. Emphasis will be placed on cellular and molecular approaches to these problems.

Candidates must be U.S. citizens or hold permanent resident alien status. Interested candidates are invited to apply to: Dr. Allan M. Lefer, Professor and Chairman, Department of Physiology, Jefferson Medical College, 1020 Locust Street, Philadelphia, PA 19107-6799. Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION

A Postdoctoral position is available to study G-protein-coupled receptor-mediated cellular signaling mechanisms including PKC, MAP kinase, and tyrosine kinase pathways in the kidney tubules and cultured epithelial cells. The successful candidate will have a Ph.D. in an appropriate field and experience in biochemical techniques applied for the measurements of various second messengers involved in the regulation of the Na/H exchanger and Na,K-ATPase in the proximal tubules. Send curriculum vitae and names of three references to: Dr. Mustata F. Lokhandwala, College of Pharmacy, University of Houston, Houston, TX 77204-5511.

The University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disability are encouraged to apply.

### POSTDOCTORAL SCIENTIST BOSTON UNIVERSITY SCHOOL OF MEDICINE

The Pharmacology Department has an immediate opening for a Postdoctoral Scientist with a Ph.D. in molecular biology or biochemistry and prior experience in the RNA field. The research, done in collaboration with a local dynamic biopharmaceutical company, will focus on the use of ribozyme-catalyzed exon shuffling to create novel gene libraries. Creative thinking and experimental skills should be demonstrated by relevant publications. Send curriculum vitae and the names of three references to: Kevin Jarrell, Ph.D., Boston University School of Medicine, Pharmacology, 80 East Concord Street, Boston, MA 02118. E-mail: jarrell@bu.edu.

**POSTDOCTORAL POSITION** at Boston University Medical Center to study renal cancer and renal development by identifying target genes, interacting proteins, and upstream regulators of critical transcription factors (*JBC* 272:2901, 1997; *MCB* 17:5629, 1997). Proficiency in molecular and/or protein techniques required. U.S. citizen, national, or permanent resident preferred for NIH training grant. Please send curriculum vitae and names of three references with telephone numbers to: Dr. Herbert T. Cohen, Boston University Medical Center, E-428, 88 East Newton Street, Boston, MA 02118. E-mail: htcohen@bu.edu.

**POSTDOCTORAL POSITIONS.** (1) Analysis papilloma virus and T4 phage replication using electron microscopy, mutant proteins, and biochemical assays. Requires background in DNA-protein interactions or electron microscopy. (2) Studies of the chromatin structure of integrated HIV-1 DNA employing topoiII assays, tissue culture, and chemical probing. Salary to match experience. Submit curriculum vitae to: Dr. Jack Griffith, Lineberger Cancer Center, University of North Carolina, Chapel Hill, NC 27599-7295. UNC is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately in NIH-funded laboratory to study targeting of regulated secretory proteins. Visit website: [www.louisville.edu/dental/bbs/Gorr/home.htm](http://www.louisville.edu/dental/bbs/Gorr/home.htm) for details. Apply to: Sven Gorr, Department of Biological and Biophysical Sciences, University of Louisville, HSC, Louisville, KY 40292. FAX: 502-852-4702; e-mail: sgorr01@homer.louisville.edu. An Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN GENE THERAPY, TRANSCRIPTION, OR HPV

Postdoctoral positions are available to study gynecologic cancer gene therapy transcription in human cells, or HPV pathogenesis. Experience in antisense E6 E7 and IL-12 preferred. Send curriculum vitae including description of research experience to: Dr. Woong Shick Ahn, M.D., Associate Professor, College of Medicine, The Catholic University of Korea, Department of Obstetrics and Gynecology, Kangnam St. Mary's Hospital 505, BanpoDong, Seoch-Gu, Seoul 137-040 Korea. Telephone: 02-535-6880; FAX: 02-535-6880; e-mail: ahnws@cmc.cuk.ac.kr. Applicants are encouraged to send the information by e-mail or by FAX.

### POSTDOCTORAL RESEARCH ASSOCIATE FISHERIES OCEANOGRAPHY

The Pelagic Fisheries Research Program (PFRP), a component of the Joint Institute of Marine and Atmospheric Research (JIMAR) jointly sponsored by the University of Hawaii and the National Oceanic and Atmospheric Administration (NOAA), pursues multidisciplinary research on fisheries for tunas, billfish, and related species in support of management of these species in the United States Exclusive Economic Zones in the Western Pacific Ocean.

Applications are invited for a **VISITING POSTDOCTORAL FELLOWSHIP** in fisheries oceanography. The successful candidate will be expected to work closely with other specialists affiliated with the PFRP. The general area of interest is the relationship between oceanographic processes and fisheries for tropical tunas and billfish. Some specific areas of interest are the development of quantitative models of large-scale population movement and the statistical estimation of model parameters from tagging and other fishery data.

Appointment is for one year with the possibility of extension dependent on performance and availability of funds. Position will be filled when a suitable applicant is found.

Applicants must possess a Doctoral degree in an appropriate field with some experience in the above areas of research.

To apply, submit résumé, copies of pertinent publications, and a one-page outline of proposed research to: Dr. John Sibert, Pelagic Fisheries Research Program, Joint Institute of Marine and Atmospheric Research, 1000 Pope Road, MSB 312, University of Hawaii at Manoa, Honolulu, HI 96822 USA.

### POSTDOCTORAL POSITION

An immediate opening is available to study a multifunctional receptor LRP. The areas of research may include receptor biogenesis, trafficking along the secretory and the endocytic pathways, and neuronal functions of LRP. Experience in molecular and cellular biology, and/or neurobiology is desirable. FAX or e-mail curriculum vitae and names of three references to: Dr. Guojun Bu, Washington University School of Medicine, Box 8116, St. Louis, MO 63110. FAX: 314-454-2685; e-mail: bu@kids.wustl.edu. An Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans.

### POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available to study the role of protein kinases in DNA damage-induced cell signaling. Candidates with a strong background in molecular biology/biochemistry are encouraged to apply. Send a curriculum vitae and the names of three references to: Baskaran, R., Ph.D., Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, E1240 Biomedical Science Tower, Pittsburgh, PA 15261. E-mail: baskaran@hoffman.mgen.pitt.edu.

**POSTDOCTORAL POSITIONS** available for genetic studies of the enzyme families regulating retinoic acid signaling during development. Ongoing studies include gene knockouts in mice and microinjection of *Xenopus* embryos. Experience in histology, HPLC, or molecular biology helpful. Contact: Dr. Gregg Duester, Gene Regulation Program, Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. E-mail: duester@burnham-inst.org.

## POSITIONS OPEN

### POSTDOCTORAL POSITION FUNGAL PATHOGENESIS ST. LOUIS UNIVERSITY School of Medicine

A three-year Postdoctoral position funded by the Burroughs-Wellcome Fund is available to an individual with a Ph.D. degree to study virulence genes in the fungal pathogen *Cryptococcus neoformans*. A strong background in microbiology, biochemistry, or molecular biology would be advantageous.

For further information, contact: Jennifer Lodge, e-mail: lodgejk@wpogate.slu.edu. To apply send a curriculum vitae, a description of research experience, and complete addresses (including telephone numbers and e-mail) of three references to: Dr. Jennifer Lodge, Department of Biochemistry and Molecular Biology, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104.

St. Louis University, a Catholic Jesuit institution dedicated to education, research, and health care, is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITIONS IN LYMPHOCYTE-MEDIATED CYTOTOXICITY

Two Postdoctoral positions to research the molecular biochemistry and immunology of T and NK lymphocyte-mediated cytotoxicity, including granzyme serine proteases, dipeptidyl peptidase 1, and perforin. Experience in molecular biology, protein purification and biochemistry, enzymology, recombinant protein expression, confocal microscopy, and/or immunology desirable. Ph.D. or equivalent degree required. Review of applications starts August 17, 1998. Send letter, curriculum vitae, and names with addresses of three references to: Dorothy Hudig, Ph.D., Professor of Immunology, Department of Microbiology/320, School of Medicine, University of Nevada, Reno, Reno, NV 89557-0046. Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL—MOLECULAR BIOLOGY

Corixa Corporation is a biotechnology company dedicated to the development of T cell vaccines and therapies for cancer and infectious diseases. Corixa is seeking a Ph.D. and/or M.D. Postdoctoral Scientist with a molecular biology background and experience in cDNA library construction to join the tumor antigen discovery effort. Skills in full-length cloning and bioinformatics are preferred. Competitive salary and benefits. Please send curriculum vitae, statement of research interests and experience, and names of three references by August 24, 1998, to: Corixa Corporation, Attn: AD975, 1124 Columbia Street, Suite 200, Seattle, WA 98104. FAX: 206-754-5715; website: <http://www.corixa.com>. An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study the role of apoprotein E in the nervous system. The broad research objective is to elucidate the mechanism by which apoprotein E influences the growth, survival, and the response of neuronal cells to stress, especially that induced by  $\beta$ -amyloid. Training in molecular and cell biology is required. Applicant should send curriculum vitae, the names of three references, and a summary of research interests to: Dr. Godfrey S. Getz, The University of Chicago, Department of Pathology MC 6079, 5841 South Maryland Avenue, Chicago, IL 60637. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study mechanisms of DNA recombination and repair in mammalian cells with a focus on understanding the origin of genomic instability in cancer cells. Experience in molecular biology required. Send curriculum vitae with bibliography, description of research experience, and names, addresses, and telephone numbers of three references to: Dr. Alan S. Waldman, Department of Biological Sciences, Coker Life Sciences Building, University of South Carolina, Columbia, SC 29208. E-mail: awaldman@sc.edu.

**POSTDOCTORAL POSITION** available to study synaptic plasticity and its role in learning, memory, and neuropsychiatric disorders, using transgenic animal models, and integrated approaches such as electrophysiology, molecular biology, and behavioral analysis. Electrophysiology experience is required. Send résumé and the names of three references to: Yanyan Wang, Department of Pharmacology, University of Pennsylvania, M102 John Morgan, Philadelphia, PA 19104-6084. E-mail: yyywang@pharm.med.upenn.edu.



The new Institute of Cell Biology of the University of Bern, Switzerland invites applications for a position as

### Professor in Microbiology/ Cell Biology

starting March 1, 1999, or by agreement.

Applicants are expected to carry out active research in either DNA repair/DNA recombination or molecular parasitology. The successful applicant is expected to participate in the teaching of microbiology, cell biology, and in either molecular genetics or molecular parasitology at all levels. Participation in administrative and other duties of the faculty is also expected.

Applications with CV, list of publications, and a short outline of research intentions are to be submitted before September 15, 1998, to the following address: **Dekanat, Philosophisch-naturwissenschaftliche Fakultät, Universität Bern, Sidlerstrasse 5, Bern CH-3012 Switzerland.** *The University of Bern especially encourages qualified women to apply for this position.*

Further information may be obtained from **Prof. J. Kohli, Institute of General Microbiology, Baltzer-Strasse 4, CH-3012 Bern. Telephone: +41-31-631-4654; Fax: +41-31-631-4684; e-mail: kohli@imb.unibe.ch.**

*As a major Pharmaceutical Company well established at an international level, our success depends upon the dynamism of our research directed towards the discovery of novel drugs. In our Research Center located in the Paris area, we seek to recruit a young scientist for a :*

## Post-Doctoral POSITION

The successful candidate has a PhD and will be involved in studies in the following fields :

- **Vascular reactivity**
- **Electrophysiology of vascular smooth muscle :**  
function of the endothelial cells, interaction endothelium/smooth muscle, patch clamp, microelectrode.

The position is vacant for 18 months.

*Applications with curriculum vitae, photograph and handwritten letter are to be sent to PUBLIVAL/7005  
27 Route des Gardes  
92190 MEUDON (FRANCE)*

### Scholarship in Reproductive Medicine and Science Brussels

We announce the availability of one full-time scholarship, starting 1 October 1998, in the Centre for Reproductive Medicine, Dutch-speaking Brussels Free University (Vrije Universiteit Brussel) for a (m/f)

## CLINICAL SCIENTIST

Applicants are invited for a two-year scholarship to investigate the clinical and basic aspects of reproductive medicine and science.

They should enroll in the Master Programme of Medical and Pharmaceutical Research at the Medical School of the Dutch-speaking Brussels Free University (Vrije Universiteit Brussel).

The stipend is 500,000 BEF per annum.

Applications, in writing enclosing full CV, should be forwarded to Prof. Dr. Paul Devroey, Laarbeeklaan 101, 1090 Brussel.

Closing date for receipt or applications is 31st August 1998.



### UNIVERSITY COLLEGE LONDON

### Department of Anatomy & Developmental Biology

## Lectureship

Located in the heart of London, this large biomedical science department in one of the UK's leading research universities has a vacancy for a permanent member of academic staff (subject to probationary period). The appointment will be on the Lectureship scale, salary range £22,726 - £29,048 + £2,134 London Allowance depending on age and experience.

We are looking for a scientist with significant postdoctoral experience and a good publications record working in one of our main research areas: neuroscience, developmental biology or evolutionary anatomy. The successful applicant will be expected to develop his/her own grant-supported research programme as well as taking an active part in teaching their subject to undergraduate and postgraduate students.

Applications in the form of a full CV, including a brief outline of future research plans and names of three referees, should be sent to: Professor N Holder, Department of Anatomy & Developmental Biology, University College London, Gower Street, London WC1E 6BT Closing date: 1st September 1998.

*Working toward Equal Opportunity*



## POSITIONS OPEN

### POSTDOCTORAL POSITION RESEARCH GENETICIST

A two-year Postdoctoral position, \$38,593 per annum, is open September 1998 with the USDA, Agricultural Research Service (ARS), Athens, Georgia. The Geneticist will investigate cell-surface variations of *S. enterica* serovar Enteritidis that enhance virulence; construct mutants using transposon mutagenesis, site-directed mutagenesis, or homologous recombination; construct gene-transcription reporter plasmids; and characterize complex carbohydrates and proteins. The candidate should have a relevant doctoral degree and productive experience in gram-negative prokaryote genetics, microbiology, and biochemistry. *U.S. citizens, citizens of allied and friendly nations, and citizens of specifically exempt countries are eligible.* For information on the research program contact: Dr. Jean Guard-Petter, USDA/ARS/SEPRL, 934 College Station Road, Athens, GA 30605. Telephone: 706-546-3446; e-mail: jgpetter@arches.uga.edu. For application information contact: Roger Moore, USDA/ARS, HRD, SSB, 5601 Sunnyside Avenue, Beltsville, MD 20705-5000. Telephone: 301-504-1516. ARS is an Equal Opportunity Provider and Employer.

**POSTDOCTORAL POSITION** in signal transduction that regulates gene family of cloned Na/H exchange proteins in epithelial cells. Studies include structure/function and protein-protein interactions. This position requires a Ph.D. and/or M.D. and expertise in molecular biology and protein biochemistry or cell biology. Please send a curriculum vitae and names of three references to: Mark Donowitz, M.D., Johns Hopkins University School of Medicine, Division of Gastroenterology, 925 Ross Research Building, 720 Rutland Avenue, Baltimore, MD 21205-2195. E-mail: mdonowit@welchlink.welch.jhu.edu.

### POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available immediately to study the role of the Elav-like mRNA-binding proteins in the regulation of gene expression. Applicants with a strong background in gene expression or nucleic biochemistry should send their curriculum vitae and the names of two references to: Dr. Henry Furneaux, Box 20, Sloan-Kettering Institute for Cancer Research, 1275 York Avenue, RRL 901D, New York, NY 10021. E-mail: h-furneaux@ski.mskcc.org.

## MARKETPLACE

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