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### POSITIONS OPEN



**MARY BABB RANDOLPH  
CANCER CENTER**  
RESEARCH ASSISTANT PROFESSOR  
Mary Babb Randolph Cancer Center  
Gynecologic Oncology  
West Virginia University  
Robert C. Byrd Health Sciences Center

The Mary Babb Randolph Cancer Center of West Virginia University and the Department of Obstetrics and Gynecology invite applications for a full-time position. Applicants should be Postdoctoral candidates with a special interest in DNA virology and the human papillomavirus. There will be ample opportunity for independent research and attainment of extramural funding. Salary and benefits will be commensurate with the applicant's experience. Applicants should send curriculum vitae, a brief summary of their research plans, teaching interests, and three reference letters to: **Eddie Reed, M.D., Search Committee Chair, Mary Babb Randolph Cancer Center, P.O. Box 9300, West Virginia University, Morgantown, WV 26506-9300.** Review of applicants will begin by June 1, 2001, and will continue until the position is filled.

*West Virginia University is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biochemistry and Molecular Biology at the University of Arkansas for Medical Sciences at Little Rock announces the availability of a full-time, tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR** starting in the fall of 2001. The successful candidate will have a strong record of research accomplishments and will be expected to develop an active and funded research program in dynamics and structure of proteins, proteomics, and/or biophysics. For appointment at the Associate Professor level, the candidate would be expected to have a funded grant. In addition to developing a successful research program, the appointee will also be involved in teaching graduate and medical students in areas of protein structure, structural characterization, and proteomics. This faculty position is funded with a full and competitive salary from the state of Arkansas and with an excellent benefits package.

To apply, please submit current curriculum vitae, a description of current and future research interests, and the names and addresses of three persons who can be contacted for letters of recommendation. Submit applications to: **Alan D. Elbein, Chair, Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, 4301 West Markham Street, Mail Slot 516, Little Rock, AR 72205.** E-mail: [funderburklynda@uams.edu](mailto:funderburklynda@uams.edu). Review of applicants will begin on May 1, 2001, and will continue until the position is filled. More information about the Department can be obtained at [website: http://www.uams.edu/biochem/biochem.htm](http://www.uams.edu/biochem/biochem.htm).

*The University of Arkansas for Medical Sciences is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

The Renal-Electrolyte Division of the University of Pittsburgh has immediate openings for Physician-Scientists seeking tenure-track appointments at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants with interests in cell or developmental biology, cell signaling, epithelial physiology, genetics, or transplant immunology are encouraged to apply. Academic appointment and salary are dependent upon qualifications and experience. Applicants should be Board certified/Board eligible in nephrology. Please send curriculum vitae and three letters of reference to: **Thomas Kleyman, M.D., Professor and Chief, Renal-Electrolyte Division, University of Pittsburgh, A919 Scaife Hall, 3550 Terrace Street, Pittsburgh, PA 15213.** *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

### POSITIONS OPEN

**OPEN RANK TENURE-TRACK FACULTY  
POSITIONS**  
Department of Pharmacology and  
Experimental Therapeutics  
Louisiana State University  
Health Science Center  
New Orleans

The Department of Pharmacology and Experimental Therapeutics at the Louisiana State University Health Sciences Center in New Orleans ([website: http://www.medschool.lsuhs.edu/phar](http://www.medschool.lsuhs.edu/phar)) is in an active phase of growth and expansion and is inviting applications at all faculty ranks. During the initial phase of expansion, we plan to fill three tenure-track positions. Faculty with expertise in molecular pharmacology, genomics, cell biology, or computational biology related to cell signaling will be recruited. This is part of a broad effort to build upon the breadth and diversity of functional model systems within the Department. Areas of focus in the Department include cardiovascular biology and neuroscience, with additional strengths in drug and alcohol abuse and cancer/toxicology. Excellent opportunities for collaborative interdisciplinary research also exist through LSU Centers of Excellence in Neuroscience, Cardiovascular Biology, Oral Biology, and Cancer and Genetics, as well as the Louisiana Gene Therapy Research Consortium and the Pennington Biomedical Research Institute. The successful candidate will have a demonstrated ability or potential to establish an externally funded research program, to train graduate students/Postdoctoral Fellows, and to participate in the teaching activities of the Department. Qualified individuals should send their curriculum vitae, reprints of three publications, a statement of current interests and future goals that emphasize how their interests might complement the existing strengths of the Department or Centers of Excellence, and addresses of three references. Please send these by mail to: **Stephen M. Lanier, Ph.D., Chair of Pharmacology, 1901 Perdido Street, Box P7-1, New Orleans, LA 70112-1393.** E-mail: [pharmacology@lsuhsc.edu](mailto:pharmacology@lsuhsc.edu). *LSUHSC is an Affirmative Action/Equal Employment Opportunity Employer.*

### FACULTY SCIENCE DIVISION

Mercy College of Northwest Ohio invites applications for a faculty position within the Science Division to assume a **FULL-TIME POSITION** for the academic year and a part-time adjunct commitment this summer. The hours include evening as well as daytime commitments. Teaching includes immunology, organic and biochemistry, and other related areas. The position requires a Ph.D. in a related field. Excellence in teaching is expected both in the classroom and in mentoring students outside the classroom. The applicant must be committed to Catholic education.

Submit letter of application; curriculum vitae; and three letters of reference by April 28, 2001, to the attention of: **Dr. B. A. Stoops, Director of Science, Mercy College of Northwest Ohio, 2221 Madison Avenue, Toledo, OH 43624-1132.** FAX: 419-251-1570. *Mercy College of Northwest Ohio is a member of Mercy Health Partners and is an Equal Opportunity Employer.*

### ASSISTANT PROFESSOR BIOLOGY

The Department of Mathematics and Science at SUNY Institute of Technology at Utica/Rome invites applications for a tenure-track position in biology beginning fall 2001. Qualifications: Ph.D. in biology or related field required and a strong commitment to excellence in undergraduate teaching. Review of applications will begin on April 15, 2001, and continue until the position is filled. Send a letter of application; résumé; and names, addresses, and telephone numbers of three references to: **Dr. Daniel Murphy, Interim Dean, School of Arts and Sciences, SUNY Institute of Technology at Utica/Rome, Drawer 145, P.O. Box 3050, Utica, NY 13504-3050.** *Website: www.sunyit.edu. Equal Employment Opportunity/Affirmative Action Employer.*

# National Institutes of Health National Institute on Aging

*The mission of the National Institute on Aging (NIA) is to improve the health of older Americans by supporting and conducting research on the processes of aging, on age-related diseases, and on the special health problems and needs of the aged. The NIA Intramural Research Program provides a stimulating, academic setting for a comprehensive effort to understand aging through multidisciplinary investigator-initiated research. The program offers many excellent training opportunities in both laboratory based and clinical research with a wealth of valuable resources. The NIA is committed to the development of scientists and provides advanced biomedical research training at all career stages.*

## **Postdoctoral positions are available for those with less than 5 years postdoctoral training.**

To apply for a postdoctoral position listed below, submit a curriculum vitae with publication list, three letters of reference, and a short statement of research goals to the correspondent. If you are unable to contact the correspondent using e-mail, mail application to:

**National Institute on Aging, Gerontology Research Center  
Attn: (Name of Correspondent)  
5600 Nathan Shock Drive, Baltimore, MD 21224-6825**

### **Laboratory of Cellular and Molecular Biology**

A postdoctoral position is available immediately to study molecular mechanisms of mRNA turnover in cancer, cell cycle regulation and aging. We are currently investigating the subcellular localization, binding properties, associated proteins and target mRNA molecules of several RNA-binding proteins that either promote or decrease mRNA stability. Our efforts are primarily focused on studying the turnover of mRNAs involved in the regulation of cell growth, including cell cycle regulatory genes, oncogenes and tumor suppressor genes. Signal transduction pathways involved in the modulation of mRNA turnover are also being investigated. Applicants must have experience with cellular and molecular biology techniques.

**Correspondent: Myriam Gorospe, Ph.D. E-mail: [myriam-gorospe@nih.gov](mailto:myriam-gorospe@nih.gov)**

A postdoctoral position is available to study the signal transduction pathways of mitogen-activated protein kinases. A combination of cellular, molecular and biochemical techniques are being utilized to identify upstream regulators and downstream targets of these kinases. Candidates must have a strong background and a keen interest in molecular biology and biochemistry. Position available immediately.

**Correspondent: Yusen Liu, Ph.D. E-mail: [yusen-liu@nih.gov](mailto:yusen-liu@nih.gov)**

### **Laboratory of Clinical Investigation**

A postdoctoral position will be available beginning April 2001 in the Diabetes Section, of the Laboratory of Clinical Investigation. The successful candidate will study the mechanisms by which GLP-1 induces beta cell differentiation and also the replication rates of the three cell types in the pancreas.

**Correspondent: Josephine M. Egan, M.D. E-mail: [Eganj@vax.grc.nia.nih.gov](mailto:Eganj@vax.grc.nia.nih.gov)**

Two postdoctoral positions are available in the Hematology/Oncology Section. The successful candidate will participate in ongoing studies which include: 1.) elucidation of pathways involved in control of human hematopoietic differentiation/proliferation using a variety of model systems with methods including micro-array and other methodologies and 2.) examination of function in development and cell signaling of a candidate nuclear protein involved in frequent deletions/alterations in lymphoid malignancies.

**Correspondent: Eric H. Westin, M.D. E-mail: [westine@grc.nia.nih.gov](mailto:westine@grc.nia.nih.gov)**

### **Laboratory of Epidemiology, Demography and Biometry**

Postdoctoral research positions are available in the Epidemiology and Demography Section to conduct epidemiologic research on chronic disease and disability in older populations. This research seeks to develop a thorough understanding of the causal chain of events leading to functional decline and disability, with investigations into the effects of specific chronic conditions, impairments related to strength and balance, pain, exercise, psychological and social factors, and biochemical markers of subclinical disease and frailty.

**Correspondent: Jack Guralnik, M.D., Ph.D. E-mail: [jg48s@nih.gov](mailto:jg48s@nih.gov)**

In the Neuroepidemiology Section, postdoctoral positions are available for interdisciplinary epidemiologic studies of brain disease in old age. Areas of interest: genetic markers and inflammatory, metabolic, vascular, and hormonal factors contributing to sub-clinical and clinical outcomes, including MRI and neuropathologic findings, cognitive function and dementia. Opportunities exist to utilize data from large on-going prospective community studies and to develop new studies. Knowledge of epidemiologic principles and training and experience in a related biological area (including endocrinology, immunology, neuroscience) is required.

**Correspondent: Lenore Launer, Ph.D. E-Mail: [launerl@nia.nih.gov](mailto:launerl@nia.nih.gov)**

Postdoctoral positions are available in the Geriatric Epidemiology Section focusing on interdisciplinary studies of molecular and genetic markers for cardiovascular, musculoskeletal disease, diabetes mellitus, disability or death. Areas of interest include cytokines and acute phase proteins in disease risk, body composition measures and disease risk, and understanding gene/environment interactions.

**Correspondent: Tamara Harris, M.D. E-Mail: [Tamara.Harris@nih.gov](mailto:Tamara.Harris@nih.gov)**

In the Biometry Section a postdoctoral fellowship is available in biostatistics. Research will be conducted in the areas of statistical methods applied to data relevant to the epidemiology and demography of aging, physical and cognitive function, disability, Alzheimer's disease and mortality. A Ph.D. or equivalent in biostatistics or statistics is required. Knowledge of SAS, SUDAAN and S-PLUS and skills in programming high-level languages such as C++ and SAS-IML preferred. Must be a U.S. permanent resident.

**Correspondent: Dwight B. Brock, Ph.D. E-Mail: [brockd@gw.nia.nih.gov](mailto:brockd@gw.nia.nih.gov)**

### **Laboratory of Genetics**

A postdoctoral position is available to study the newly-identified human ATP-dependent Chromatin-remodeling complexes (G&D 10:2117; Cell 95:625; Mol. Cell 2:851), helicase complexes involved in the premature aging disorders, Werner's syndrome and Bloom syndrome, as well as a DNA methyltransferase complex involved in the ICF syndrome. More information is available at <http://www.grc.nia.nih.gov/branches/ig/tru/tru.htm>. The successful candidate will obtain training in rapid purification of protein complexes from mammalian cells, microsequencing and cloning of new subunits, analysis of the roles of these complexes in normal cellular processes and in human diseases.

To apply for this position send a curriculum vitae and names of three references to:

**Correspondent: A. Michaelis, NIH-NIA-LG, 333 Cassell Drive, Suite 4000, Baltimore, MD 21224, or E-mail to: [MichaelisA@grc.nia.nih.gov](mailto:MichaelisA@grc.nia.nih.gov).**

A postdoctoral position will be available as of October 1, 2001 to study the basis for the requirement for the EDA protein (ectodysplasin-A) in the formation and maintenance of hair follicles, sweat glands, and teeth. In the Tabby (EDA<sup>-</sup>) mouse, each of three major forms of the EDA protein will be supplied from a controllable promoter at different times in fetal development. The response of global gene expression will be determined utilizing the NIA 30,000 cDNA mouse microarray, and compared to the initiation or support of the skin appendages. The goal is to identify target genes and pathways of EDA, and to assess the mechanism by which they sustain the normal adjuncts of skin. Molecular and cell biology experience are required, with an interest in developmental gene action.

**Correspondent: A. Michaelis, E-mail: [MichaelisA@grc.nia.nih.gov](mailto:MichaelisA@grc.nia.nih.gov) <http://www.grc.nia.nih.gov/branches/ig/hgu/hgu.htm>**

# National Institutes of Health National Institute on Aging

An immediate opening is available for a postdoctoral fellow to study the global changes of gene expression patterns during ES cell differentiation by utilizing the NIA 30K mouse cDNA microarray. The goal is to identify genes that are critical for the maintenance of pluripotency and/or for early commitment to different cell lineages. Extensive molecular biology and tissue culture experience is required.

**Correspondent:** Minoru S. H. Ko, M.D., Ph.D. E-mail: [KoM@grc.nia.nih.gov](mailto:KoM@grc.nia.nih.gov) <http://www.grc.nia.nih.gov/branches/lg/dgas/dgas.htm>

A Research Associate/Postdoctoral position is currently available to perform informatics-based analyses of cDNA sequences/ESTs and cDNA microarray data, which are derived from early mouse embryos and stem cells. Candidates should be familiar with the use of current bioinformatics tools and should be able to work on Unix and Windows NT platforms.

**Correspondent:** Minoru S. H. Ko, M.D., Ph.D. E-mail: [KoM@grc.nia.nih.gov](mailto:KoM@grc.nia.nih.gov) <http://www.grc.nia.nih.gov/branches/lg/dgas/dgas.htm>

## Laboratory of Immunology

A postdoctoral position is available immediately to study the molecular basis of memory lymphocyte function. Current projects include: 1) regulation of telomerase expression in human lymphocytes and 2) molecular characterization of memory lymphocytes. Experience in molecular biology and cellular immunology is required.

**Correspondent:** Nan-ping Weng, M.D., Ph.D. E-mail: [wengn@grc.nia.nih.gov](mailto:wengn@grc.nia.nih.gov)

## Laboratory of Molecular Gerontology

A postdoctoral position is available to study somatic hypermutation in immunoglobulin variable genes. Research will focus on identifying the DNA polymerases and proteins involved in the mutation mechanism, using knockout mice and protein interactions.

**Correspondent:** Patricia Gearhart, Ph.D. E-mail: [GearhartP@grc.nia.nih.gov](mailto:GearhartP@grc.nia.nih.gov)

Postdoctoral positions are available to study DNA helicases defective in syndromes of premature aging and cancer. The goal is to understand the roles of human helicases in pathways of genome stability. Fellows will work with a collaborative group of scientists who have interests in DNA replication/repair and the emerging field of molecular gerontology.

**Correspondent:** Robert M. Brosh, Jr., Ph.D. E-mail: [broshr@grc.nia.nih.gov](mailto:broshr@grc.nia.nih.gov)

Postdoctoral positions to conduct research on DNA repair and molecular changes with aging. The laboratory is studying the molecular biochemistry of premature aging disorders and the processing of oxidative DNA damage in nuclear and mitochondrial DNA.

**Correspondent:** Vilhelm A. Bohr, M.D., Ph.D. E-mail: [BohrV@nih.gov](mailto:BohrV@nih.gov)

## Laboratory of Neuroscience

A postdoctoral position is available within the Nutritional Molecular Physiology Unit. The successful candidate will study energy metabolism and glucoregulation in aging and retardation of aging and age-related disease by caloric restriction in primates. Applicants must possess relevant animal model experience. Experience in aging or diabetes-related research in primate or human models is highly desired.

**Correspondent:** Mark A. Lane, Ph.D. E-mail: [MLANE@vms.grc.nia.nih.gov](mailto:MLANE@vms.grc.nia.nih.gov)

## NIH-NIA, Bethesda, Maryland

### Section on Brain Physiology and Metabolism

Two postdoctoral fellowships are available, one to examine gene expression and phosphorylation of enzymes involved in brain signal transduction, the other to use quantitative autoradiography to examine regional brain metabolism *in vivo* in rodents in response to pharmacological activation. The first position requires knowledge of molecular biology and immunologic techniques, the second position requires knowledge of neuropharmacology and quantitative autoradiography for small animals.

Please send a letter of application, C.V. and names of three references to: **Stanley Rapoport, M.D., Section on Brain Physiology and Metabolism, National Institutes of Health, National Institute on Aging Building 10, Room 6N202, Bethesda, MD 20892**

**FAX 301-402-0074; E-mail (text or attached MS Word File): [sir@helix.NIH.gov](mailto:sir@helix.NIH.gov)**

## Tenure Track Position

The National Institute on Aging Laboratory of Cardiovascular Science is searching for a tenure track investigator to develop an independent research program in pathophysiology of experimental hypertension. Preference will be given to those candidates with experience in the state of the art methods for investigation of endocrine aspects of salt sensitive hypertension, transmembrane transport, and vascular physiology. Candidates must hold a Ph.D. or M.D. degree, have a minimum five years of postdoctoral experience, and have demonstrated significant contributions to the above field of cardiovascular science. Candidates should submit a curriculum vitae, bibliography, a detailed statement of research plans, select publications, and have three letters of recommendation submitted to: **Patricia Boyce, Personnel Office, Vacancy Number NIA-00-32(GRC), Gerontology Research Center, NIA, NIH, 5600 Nathan Shock Drive, Baltimore, MD 21224. (Fax 410-558-8322).** Applications must be postmarked by **April 30, 2001.**

## Staff Clinician Position

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, MD, invites applications for a Staff Clinician position at the Gerontology Research Center. Starting salary commensurate with qualifications and experience. The successful applicant will provide medical support for ongoing positron emission tomography (PET) and functional magnetic resonance imaging (fMRI) studies of brain aging. These projects include longitudinal investigations of brain changes in relation to age-associated memory decline, predictors of dementia and memory problems in the elderly, the effects of hormones and other pharmacologic interventions on brain function, and the development of new techniques for *in vivo* PET imaging of brain signaling.

The successful applicant will contribute to the implementation and execution of these studies, including initial medical, neurologic and psychiatric assessments, review of clinical data, and medical management over the course of the studies. Opportunities also exist for novel investigations within the context of the ongoing research.

Applicants must have a medical degree, experience in gerontology and/or neurology, and be eligible to obtain credentials at the National Institutes of Health and the Johns Hopkins Medical Institutions. The successful applicant may be eligible for the NIH Loan Repayment Program. Applicants should send curriculum vitae and three letters of reference to: **Susan M. Resnick, Ph. D., Chair, LPC Staff Clinician Search Committee, National Institute on Aging, NIH, Box 3, 5600 Nathan Shock Drive, Baltimore, MD 21224-6823.**

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## **Microbial Physiologist**

You will define, design and conduct experiments aimed at optimizing growth conditions with a goal of improving recombinant protein expression in a prokaryotic system, and troubleshoot problems encountered during heterologous gene expression in a microbial system as it relates to solubility and secretion. We require a graduate degree in an appropriate biological sciences discipline with several years of experience. A thorough understanding of microbial physiology and metabolic pathways is essential. (Job Code: 2K1412B)

## **Cell Biologist**

You will use your bench level skills and knowledge of eukaryotic cell biology to optimize cell growth and enhance product expression in recombinant mammalian cells. We are particularly interested in candidates with experience studying protein synthesis, post-translational modification, and secretion. We seek a recent PhD graduate in cell biology, a MS with several years relevant experience or a BS with a minimum of 6 years experience. (Job Code: 2K1401B)

## **Biochemical Engineer/ Fermentation Process Scientist**

You will be responsible for the operation, improvement and maintenance of the Cell Culture Process Development Reactor facility. You will also develop new technologies and scale down models. We require a minimum of a MS in Biochemical Engineering with several years of experience, or a BS with 6 years of relevant experience. Theoretical knowledge of cell culture fermentation, filtration and related technologies, along with hands-on experience and a mechanical aptitude for operating fermentation equipment, are essential. (Job Code: 2K1360B)

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## **Director Alaska Native Health Research Center**

The University of Alaska Fairbanks seeks a Director for an NIH Center of Biomedical Research Excellence (COBRE) focused on Alaska Native Health Research. The Director will lead the Center in development and expansion of research, as well as provide administrative oversight of the Center's research program. We seek a scientist who has cross-cultural knowledge, appreciates the relevance of research on Alaska Native health disparities, and who can work with other scientists and the Alaska Native community to create and achieve a broad vision for the Center.

The candidate should be a distinguished scientist with a documented history of research excellence that merits appointment as a tenured Professor in one of the departments of the University of Alaska Fairbanks (<http://www.uaf.edu/>). In addition, applicants for this position must present evidence that clearly demonstrates the following:

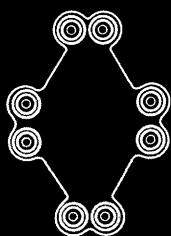
- Skills in scientific leadership, communication, and administration.
- A long-term record of NIH-funded grant support.
- Commitment to the development of meaningful partnerships and interactions with Alaska Native Tribal Health organizations.
- Commitment to collaborate with and mentor junior faculty.
- Experience working within cross-cultural settings is strongly preferred.

A substantial salary, start-up package, and new equipment and facilities will be available pending NCRR review at the NIH. Review of applications will begin on **30 April 2001**. Send curriculum vitae, statements of research interests, reprints of seminal publications, and contact information for five references to:

**Gerald V. Mohatt  
Chair  
Alaska Native Health Research  
Center Search Committee  
Institute of Arctic Biology  
University of Alaska Fairbanks  
Fairbanks, Alaska 99775**

[ffgvm@uaf.edu](mailto:ffgvm@uaf.edu), (907) 474-6415, FAX (907) 474-5781. Women and minorities are strongly encouraged to apply.

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Our recent growth and expansion have created many outstanding opportunities to join our dynamic, multi-disciplinary R&D team in the following areas:

### Research Scientist, Drosophila Genetics

You will receive the benefits of working in a world-class, interdisciplinary, collaborative environment using model organism genetics to identify novel therapeutic targets for pharmaceutical development. You will utilize *Drosophila* genetics, comparative genomics, and molecular biology techniques to investigate therapeutically important biochemical pathways. An interest in developing new phenotyping and screening technologies is desirable. Positions are currently available in several areas, including Metabolic Disease, Angiogenesis, and Neurodegenerative Disease. Positions require a PhD and 3+ years experience in *Drosophila* research. Excellent interpersonal and communication skills and the ability to work in a team setting are essential. (Job #: 01-29/01-42/01-61)

### Research Scientist/Senior Research Scientist, Pharmacology

You will conduct *in vitro* and *in vivo* efficacy and pharmacology studies and be responsible for implementing and developing *in vivo* oncology- and angiogenesis-related animal models. You will also manage a pharmacology lab focused mainly on *in vivo* efficacy and high-throughput screening PK studies for determination of the mechanisms of action and characterization of selected leads. Requires a PhD or equivalent and 2 years experience in a cancer research lab. Comprehensive understanding in angiogenesis, signal transduction and apoptosis pathways, and hands-on experience in *in vivo* model development required. Experience with functional genomics desired. Industry experience is preferred. Excellent teamwork and communication skills are also required. (Job#: 01-32)

### Research Scientist, Oncology

You will play a direct role in prioritizing oncology therapeutic gene targets that have been identified in our various genetic screens. You will also design and execute experiments using human cell biology and biochemistry to validate human homologs and explore biological function and signal transduction pathways. Requires a PhD or equivalent with 2+ years postdoctoral experience in cancer-related research and/or signal transduction required. Hands-on training in state-of-the-art techniques in molecular biology, cell biology and biochemistry and knowledge of oncology-related assays (e.g., DNA damage, apoptosis) are preferred. Biotech or pharmaceutical experience also preferred. (Job#: 01-50)

### Research Scientist/ Senior Research Scientist, Oncology

You will play a direct role in prioritizing oncology therapeutic gene targets that have been identified in our various genetic screens. You will also design and execute experiments using human cell biology and biochemistry to validate human homologs and explore biological function and signal transduction pathways. Requires a PhD, MD or equivalent with 5+ years industry experience and 2+ years research or supervisory experience. In-depth knowledge of cancer biology and signal transduction and broad knowledge of state-of-the-art techniques in molecular biology, cell biology and biochemistry as well as knowledge of oncology-related assays (e.g., DNA damage, apoptosis) required. Biotech or pharmaceutical experience also preferred. (Job#: 01-51)

### Research Scientist, Biology Technology

You will play a direct role in establishing recombinant protein expression systems to produce protein in support of high-throughput screening, crystallography and antibody production in our Molecular Target Research department. Requires a PhD with 2+ years experience in *E. coli*, baculovirus, *Pichia* and mammalian recombinant expression systems. Familiarity with standard molecular biology (DNA, construct design and preparation, DNA sequencing), protein purification and characterization (SDS-PAGE, Western) desired. (Job#: 01-45)

### Research Scientist, Technology Development, *C. elegans* Genetics

You will work within our *C. elegans* group to develop new technologies to aid in the genetic identification of targets for human pharmaceutical development. Requires an MS with 2+ years experience, PhD or equivalent, with an emphasis on molecular lab techniques required. Training in genetics desired, with an interest in data management systems, automation or robotics a plus. (Job #: 01-58)

### Research Scientist, Informatics (Multiple Positions)

You will design, develop and maintain core Exelixis software and database systems, using a strong software engineering background and solid programming skills to put in place systems that are robust, scalable and efficient to support our research programming activities. Requires a BS, MS, PhD or equivalent experience in Computer Science and 2+ years of programming experience with C, C++, Perl, Python, HTML, SQL and/or Java in a production environment; experience with client-server architectures, common UNIX tools, and structured and object-oriented design; and excellent communication skills. Experience maintaining DNA and protein sequence databases desirable; familiarity with Sun workstations, Solaris OS, X Windows and/or RDBMS is desired. (Job#: 01-06)

### Genotyping Team Leader, Genomics

You will be responsible for establishing and overseeing a genotyping core. This position will support multiple programs and interface with new technology development for genotyping. Responsibilities include implementing cutting-edge genotyping technologies as well as managing daily throughput. Requires a BS with 5 years experience, MS with 1 years experience, PhD or equivalent with a strong background in genomics and molecular techniques. Experience with large-scale projects and automation is required. Strong organizational and communication skills and the ability to work independently are also essential. Experience in a production environment is desirable. Previous exposure to informatics a plus. (Job#: 01-26)

Exelixis offers highly competitive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. Please send your resume/CV to Exelixis, Inc., HR Department; Fax: (650) 837-7226; or Email: [careers@exelixis.com](mailto:careers@exelixis.com). EOE.

Please visit our website at  
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Eli Lilly and Company, Sphinx Laboratories, located in Research Triangle Park, North Carolina is utilizing scientific excellence and innovation to develop therapeutic solutions for the world. We seek the best, most diverse professionals to help us in our race of drug discovery.

**Group Leader, Kinase and Phosphatase**

We are seeking an individual to supervise a team of Ph.D. and associate scientists dedicated to lead generation for kinase and phosphatase targets. This group is responsible for developing assays for medium and high-throughput screening, lead characterization and optimization; and developing novel approaches for lead generation. The successful candidate will have a Ph.D. with 5+ years of industrial experience with kinases or phosphatases. The successful candidate should also have a proven track record of accomplishments, leadership and supervisory skills.

For confidential consideration, please send your resume and cover letter to: **Eli Lilly and Company, Sphinx Laboratories, Attn: Human Resources, P.O. Box 13951, 20 T.W. Alexander Drive, Research Triangle Park, NC 27709; FAX: (919) 314-4349; or E-mail: sphinx\_recruit@lilly.com.** We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

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Curie**

*La Science au Service de l'Homme*

**Tenure Track Position:  
Bioinformatics Specialist**

This Bioinformatics Specialist will be the leader of the Bioinformatics Unit of the Oncogenomic Platform of the Institut Curie, Paris. He or she will work closely with the institute's researchers and clinical biologists, especially for the institute's "Microarray Programme" on the identification of genetic alterations and gene expression networks in the field of developmental biology, oncogenomics and pharmacogenomics.

Qualified candidates will possess a Ph.D. in Molecular Biology, genetics or related fields. Strong experience with existing bioinformatics tools, proficiency in Perl, C/C++ and/or JAVA language as well as a capacity to develop new tools for data analysis and data mining are requested. Outstanding team management and communication skills are essential. Salary will be according to qualifications.

Send application and C.V. (Word 6) by e-mail to: [dlouvard@curie.fr](mailto:dlouvard@curie.fr)

**ETH**

Eidgenössische Technische Hochschule Zürich  
 Swiss Federal Institute of Technology Zurich

The Behavioral Neurobiology Laboratory is looking for a

**Electrophysiologist**

**Responsibilities:**

The Behavioral Neurobiology Laboratory of the Swiss Federal Institute of Technology Zurich in Switzerland has a research position available for an electrophysiologist as of July 1<sup>st</sup>, 2001. The multidisciplinary laboratory is engaged in innovative research on brain mechanisms of behavior and the development of animal models for psychiatric and neurological disorders.

**Requirements:**

The electrophysiology research involves single-unit recording studies in freely moving animals and the correlation of neuronal activity with behavioral tasks sensitive to basal ganglia, prefrontal cortex and hippocampal functioning. Responsibilities include the instruction and supervision of graduate and undergraduate students. Applicants must have a Ph.D. and relevant postdoctoral experience.

**Additional benefits:**

We offer an interesting position in a university environment with access to the international scientific community. Our offices are located at the ETH Research Unit in Schwerzenbach.

**Your application:**

Please send a full curriculum vitae together with a statement of research interests and the names of at least three references to: ETH Zürich, Frau T. Gloor, Personalabteilung, ETH Zentrum, 8092 Zürich, key code „ELPHY“. For further information about the position, please contact Prof. Joram Feldon, Phone: + 41-1-655-7448. E-mail: [feldon@toxi.biol.ethz.ch](mailto:feldon@toxi.biol.ethz.ch)

**Four  
Positions  
Open in  
Proteomics**

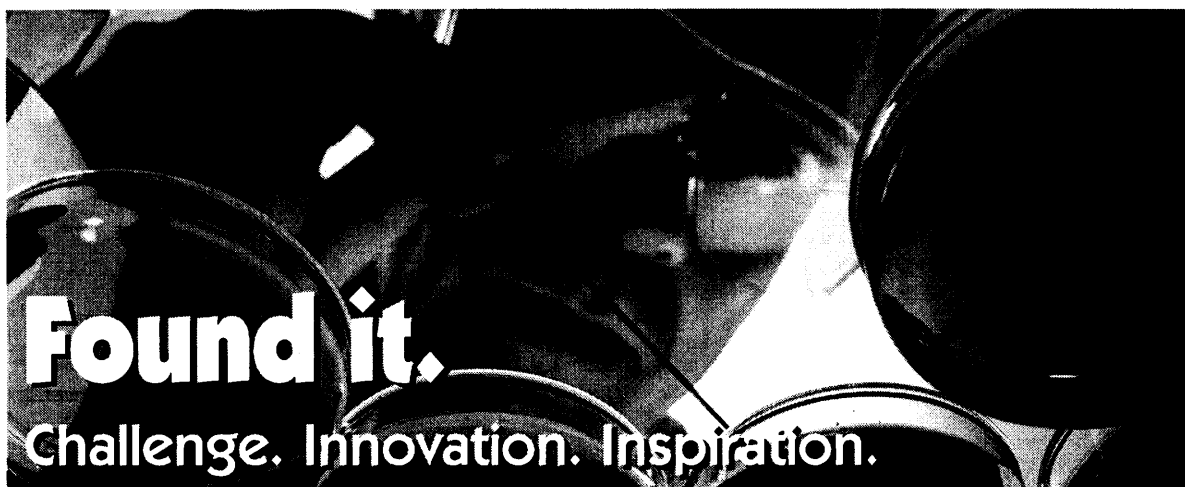
**Prevention of  
Colorectal Cancer**

The objective of this NCI funded proteomic project led by Dr. Alfred Knudson is to identify the earliest protein changes (i) in the colon in the dominantly-inherited cancer syndrome FAP (familial adenomatous polyposis), and (ii) upon polyposis-inhibition by the nonsteroidal anti-inflammatory agent sulindac.

We invite Ph.D. level applicants for two Research Associate positions to join an existing team to perform methods of proteome resolution, including 2D-gel electrophoresis and to employ mass spectrometry for protein identification. We prefer candidates with training in mass spectrometry, enzymology, protein chemistry or 2D-gel analysis. We also seek two B.S. level researchers to support above project. You will collaborate closely with investigators at Thomas Jefferson University and Fox Chase Cancer Center in a vigorous scientific and collegial environment. Our laboratory is equipped with state of the art electrophoresis, ESI quadrupole ion-trap and MALDI-TOF mass spectrometers and supported by a strong bioinformatics group.

Interested candidates should contact **Dr. Anthony Yeung, Fox Chase Cancer Center, c/o Human Resources, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: [AT\\_Yeung@fccc.edu](mailto:AT_Yeung@fccc.edu). EOE.**

**FOX CHASE  
CANCER CENTER**



Are you challenged by the possibilities of changing the world with great care? Inspired by the opportunities of this challenge? Desire to be part of an innovative premier healthcare company that celebrates your successes as well as our own? Then, you have found it at Bayer. Right now, we have the following exceptional opportunities at The Bayer Center for Biotechnology in Berkeley, CA and in our Biological Products Manufacturing Facility in Raleigh/Clayton/RTP, NC:

## Raleigh Area

Director, Quality Assurance	Plant Engineer, Lyophilization
Director, Compliance	QA Discrepancy Investigator
VP, Compliance	Validation/Sr. Validation Specialist
QA Product Line Manager	Aseptic Filling Supervisor
Follow Up Auditing Manager	Sr. Scientist, Biochemistry
Compliance Specialist	Research Scientist
Deputy Director, Regulatory Affairs	Analytical Development Scientist
Assistant Director, Regulatory Affairs	Process Development Scientist
Capital Projects Engineers	Project Manager
Production Specialists	Principal Production Specialists
Chemical Process Engineers	Associate Scientist
Process Engineer, Filling & Packaging	Microbiologists
Quality Engineers	Chemists

## Berkeley Area

Project Manager II	Validation Specialist
Associate QA Scientist	QA Validation Scientist
QC Microbiology Manager	Principal Engineer
QA Sr. Discrepancy Investigator	Sr. Production Engineer
QA Principal Discrepancy Investigator	Sr. Engineer, HVAC
QA Product Line Manager	Sr. Engineer/Engineer III
Research Scientist	Associate Information Scientist
Sr. Associate Scientists	Principal Production Specialist
Research Scientist, Purification Development	Microbiologists
Sr. QA Release Function Administrator	Chemists
	Quality Engineers

**For job details please visit our website at: [www.founditatabayer.com](http://www.founditatabayer.com)**

Please forward your resume or CV, indicating job title or area of interest, to: Bayer Corporation, Pharmaceutical Division, P.O. Box 3238, Scranton, PA 18505-0238, Fax: 1-888-805-7474, or E-mail: [bayerpharma@alexus.com](mailto:bayerpharma@alexus.com).

In addition, please email your resume to [kathleen.fleming.b@bayer.com](mailto:kathleen.fleming.b@bayer.com) for North Carolina positions and to [berkeley.resumes@bayer.com](mailto:berkeley.resumes@bayer.com) for Berkeley positions with job title or area of interest specified.

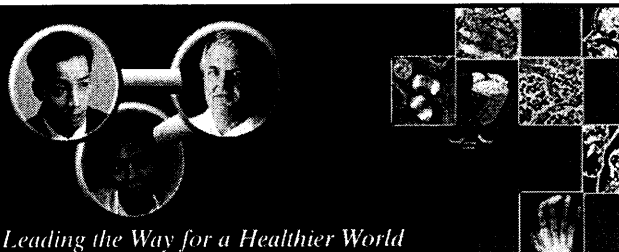
Please also attach your resume as a Word or Text file for quicker processing. No agencies or phone calls please. Bayer offers a competitive salary plus comprehensive benefits package which take effect day one of employment. We also pay 100% of tuition reimbursement. We are part of the Bayer Corporation, a \$32 billion international diversified organization & one of the most broadly based healthcare companies in the US and a leading manufacturer of plasma derived therapies in the world. We are an equal opportunity employer committed to diversity in the workplace.

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**Pharmaceutical Division**





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Lead the way! Become a leader by furthering your career and experience with one of the world's largest research-based companies. At Wyeth, part of American Home Products, your knowledge will help lead the way into a healthier world. Join us in a promising position in our **Radnor, PA** facility.

At Wyeth Nutritionals, research and development are critical and continue to be the driving force behind our efforts to provide high-quality, leading-edge nutritional products. In recent years, these dedicated operations have established records for timely introduction of new products, line extensions, and breakthrough improvements in our formulas. Now, more than ever, our growth is based on a prolific pipeline of new and improved products.

### **Nutrition - Immunology**

- Supervise a laboratory that researches modulation of immune system activities by enteral administration of nutrients, probiotics, or other ingredients that enhance the infant immune system
- Develop your own creative research program and direct research staff in understanding both in vivo effects and molecular mechanisms of immuno-modulatory ingredient/agent actions
- Ph.D. in Immunology or Nutrition with immunology background sought, including a minimum of 3 years' relevant postdoctoral lab research experience
- Experience in mucosal immunology a plus, as is infant nutrition expertise

### **Nutrition - Microbiology**

- Help us elucidate the interactions between gut microflora and intestinal cells, as related to microflora regulation and growth modulation
- Supervise research staff to explain both in vivo effects and molecular/nutrient mechanisms of action that can modulate the gut microflora growth and pathology.
- Ph.D. in Nutrition/Microbiology required, along with a minimum of 3 years' postdoctoral experience in a microbiological research lab
- Experience in molecular biology techniques a must
- Background in infant nutrition would be highly valuable, along with an understanding of viral infection mechanisms

### **Nutrition - Minerals**

- Apply fundamental knowledge of animal models and associated equipment used to measure mineral absorption
- Build a research program whose underlying objective is to understand mineral absorption and its regulatory factors
- Ph.D. in Nutrition or related field with a research emphasis on minerals and trace elements and their role in nutrition
- At least 3 years' postdoctoral experience required in minerals analysis and measurement of their balance and transport in vivo; a nutrition background is crucial
- Understanding of infant nutrition is an advantage

Wyeth offers competitive compensation and benefits programs including stock options, child-care subsidies, flex-time, business casual work environment, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com**

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## **Postdoctoral Opportunities**

The Wadsworth Center, a research-intensive public health laboratory, provides a unique and dynamic training environment. Basic and applied research at Wadsworth focuses on molecular genetics, structural and cell biology, neuroscience, immunology and infectious disease, biological imaging, and environmental science. Enhancing this environment are state-of-the-art core facilities, broad-based graduate programs, and new initiatives in bioinformatics, genomics, nanobiotechnology, and integrated clinical sciences. Immediate openings are available with the following investigators:

**Marlene Belfort** - *Dynamics of mobile self-splicing introns*

**M. Joan Curcio** - *Retrotransposons and genome evolution in yeast*

**Keith Derbyshire** - *Bacterial transposition and molecular genetics of mycobacteria*

**Steven Hanes** - *PolyI-isomerases in transcription and cell cycle*

**Liaquat Husain** - *Heterogeneous sulfur dioxide oxidation in clouds and fog*

**Michael Koonce** - *3D structure of dynein*

**David Lawrence** - *Neuroimmunology and toxicology*

**Laura Kramer** - *Arboviral fitness and genetic changes during host-switching*

**David LeMaster** - *Chemical enzymology of protein thiol transfer*

**Kathleen McDonough** - *Molecular and cellular pathogenesis of Tuberculosis*

**Anne Messer** - *Gene therapy for neurological diseases*

**Brian Pentecost** - *Estrogen receptor-associated peptides and breast cancer*

**Conly Rieder** - *Mechanisms of mitosis and cell cycle progression*

**Patrick Van Roey** - *Crystallographic studies of protein-DNA and protein-carbohydrate interactions*

**Jonathan Wolpaw** - *Activity-dependent spinal cord plasticity/ Brain-computer interfaces for communication and control*

To apply, send a letter indicating the investigator(s) you are interested in, a CV, and three letters of reference to:

Dr. Donal Murphy, Research Office  
Wadsworth Center  
New York State Department of Health  
PO Box 509, Albany, NY 12201-0509  
[murphy@wadsworth.org](mailto:murphy@wadsworth.org)

[www.wadsworth.org](http://www.wadsworth.org)  
AA/EOE

## **Wadsworth Center**

**New York State Department of Health**

**Better world.  
Better careers.**

## Be at the center of the Genomics revolution.

Novartis Pharmaceuticals' Functional Genomics Department is dedicated to the identification of novel human disease genes and novel drug targets. Using state-of-the-art techniques in bioinformatics, high-throughput gene expression analysis, antisense, proteomics, transgenic mice, and *Drosophila* genetics, we work in partnership with our drug discovery groups to identify new therapeutic opportunities and to turn these gene-based discoveries into clinical benefits. We are currently seeking highly motivated, creative individuals to join our Summit, NJ operation to work with experts in both New Jersey and Switzerland.

### Executive Director - *Drosophila* Genetics

The candidate will serve as a Unit Head and lead a group of scientists, Ph.D. and non-Ph.D., dedicated to applying *Drosophila* genetics to the study of human diseases. The group will use *Drosophila* to elucidate the function of human genes and to define molecular pathways of diseases. Additionally, this individual will lead an active laboratory and play a key role in managing and setting strategic direction for the *Drosophila* genetics group and for the Functional Genomics Department.

Qualifications include a Ph.D. and at least 10 years' postdoctoral experience. The candidate should have made significant contributions to the field of *Drosophila* genetics with particular emphasis on the study of disease relevant processes and have a strong record of publications.

**Requisition # 9678AD.**

### Scientist - Transgenic Mice

You will be responsible for the construction and characterization of transgenic and knockout mice, DNA cloning, ES cell culture and transformation, production of chimeric mice by blastocyst injection and in situ hybridization.

Qualifications include a B.S. or M.S. in Biological Sciences or a related discipline. Must be able to work as part of a team and have at least 2 years' experience in molecular biology and gene targeting technologies.

**Requisition # 9524AD.**

### Sr. Scientist - Bioinformatics

The candidates will be responsible for the design, implementation and utilization of novel algorithms in the fields of functional analysis of genes, genome-wide gene discovery, and expression profiling with large proprietary data sources.

Qualifications include a Ph.D. in either Informatics, Computational Biology, Molecular Biology or a related science. Candidates must have working knowledge of molecular biology and several years' experience in programming on Unix-platforms. Additional experience in

relational databases, Web software development or statistics is a plus. Excellent interpersonal skills, communication abilities and experience with multidisciplinary interactions in a team based setting are required. We are seeking candidates to join our Basel, Switzerland or Summit, NJ operations. **Requisition # 9324AD.**

### Scientist - Molecular Genetics

Candidates will carry out molecular biology experiments to identify genes directly affecting disease processes. You will be responsible for isolation of DNA and RNA from cells, and for construction of cDNA libraries for large-scale functional analysis. Large-scale gene transfer technologies, including retroviral vectors and high throughput functional analysis will also be used to identify genes that modify disease pathways.

Qualifications include a B.S. or M.S. and more than 2 years' experience in molecular biology research in industry or academics. The individual should have extensive experience in construction of recombinant plasmids and/or cDNA libraries. Experience in mammalian tissue culture and retroviral vectors is helpful.

**Requisition # 8258AD.**

### Postdoctoral Fellow - Model Organisms

Using model systems, such as *Drosophila*, the Postdoctoral Fellow will study functions of genes for which human homologs are predicted. Information from such studies will allow us to evaluate their use as potential drug targets. **Requisition # 9685AD.**

### Postdoctoral Fellow - Expression Profiling in Angiogenesis

The holder of this position will utilize DNA microarrays to identify novel genes related to angiogenesis. The candidate will utilize a variety of standard and proprietary microarray formats to identify genes associated with endothelial specific processes, and bioinformatics tools to predict potential regulators of angiogenesis. In addition, the identified genes will be characterized for function in *in vitro* and *in vivo* models of angiogenesis.

**Requisition # 9679AD.**

### Postdoctoral Fellow - High Throughput Gene Characterization

The Postdoctoral Fellow will work with a team assembling an extensive human gene collection for high throughput analysis of gene function. Robotics and automation will be used to process public and proprietary cDNA expression vector collections and to use these in cell based assays to identify new regulators of disease processes and signal transduction pathways.

**Requisition # 9710AD.**

### Postdoctoral Fellow - Mouse Molecular Genetics

The candidates will have the opportunity to develop and utilize transgenic and gene targeting technology in mice in order to exploit the large number of new genes identified by sequencing of the human and mouse genomes. Responsibilities include bioinformatic analysis of genomic sequences, study of gene expression by *in situ* hybridization, gene targeting and phenotypic characterization of mice. Positions are available in Basel, Switzerland or Summit, NJ. **Requisition # 9521AD.**

All Postdoctoral fellow applicants should have a Ph.D. and experience appropriate to the position. Bioinformatics experience is desirable for all candidates.

At Novartis Pharmaceuticals, we offer excellent compensation and benefits programs that reflect our position as an industry leader. The programs include medical, dental, vision, legal and financial planning services, life insurance, 401(k) as well as leadership development initiatives. Find out how fulfilling your career can be.

Please e-mail your resume as a 'Microsoft Word' attachment to: [rd@recruitmentsolutions.com](mailto:rd@recruitmentsolutions.com). Include in your e-mail message the following information: 1. In the subject area and in the main copy of your e-mail, reference the requisition # (4 digit req #) for sorting purposes. 2. In a brief note or cover letter, indicate where core competencies align with requisition.

As an alternate method of submission, fax your resume and cover letter to: 800-343-8850. If you would like to know more about openings available at Novartis, please visit our website at: [www.joinnovartis.com](http://www.joinnovartis.com). We are equal opportunity employers M/F/D/V.



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The Spirit of Discovery

**The Government of the Hong Kong Special  
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**Science Advisor in the Innovation and  
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(Remuneration : around HK\$2,000,000 per year)

The Government of the Hong Kong Special Administrative Region is committed to promoting innovation and technology development in Hong Kong. The Innovation and Technology Commission of the Government is seeking to recruit a Science Advisor to provide specialist advice on matters related to innovation and technology development in the fields of information technology and electronics. The Science Advisor will play an active role in the development of innovation and technology policies, programmes and projects in Hong Kong. The Advisor will report directly to the Commissioner for Innovation and Technology, and will be expected to tender technical advice to the senior level of the Government and to the Council of Advisors on Innovation and Technology. He/She will supervise a small team of professional staff in evaluating relevant applications to the Innovation and Technology Fund, and in formulating themes for solicitation of applications to the Fund.

Qualified candidates should have a strong research and technical background in the development, application and commercialisation of information technology and electronics. He/She should have already attained full professorship status, or senior science management level within a scientific or corporate setting, possessing a PhD and having a minimum of 10 years' experience holding a senior office. He/She should preferably enjoy recognised international standing in his/her own specialist field in information technology and electronics.

The successful candidate will be offered a non-civil service appointment on a contract for a maximum period of three years. The appointee is not a civil servant and will not be eligible for posting, promotion or transfer to any posts in the civil service.

Interested candidates should send their full CV and a covering letter to the Human Resources Section, Innovation and Technology Commission, Room 1439, 14/F., Ocean Centre, 5 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong no later than **28 April 2001** (copies of academic qualification certificates, record of previous employments and references should be provided). Candidates who are selected for interview will normally receive an invitation in about four weeks from the closing date for application. Those who are not invited may assume that their applications are unsuccessful. For enquiries, please call (852) 2737 2251, or fax to (852) 23 14 7988, or send e-mail to [cswang@itc.gov.hk](mailto:cswang@itc.gov.hk). (Note : candidates will be required to make passage and accommodation arrangements at their own cost for attending selection interview.) The vacancy information contained in this column is also available on the Civil Service Bureau Homepage on the Internet at [www.hku.hk/hkgcsb](http://www.hku.hk/hkgcsb) and the Innovation and Technology Commission Homepage at [www.info.gov.hk/itc](http://www.info.gov.hk/itc).

**The Medical Faculty of the University of Cologne Invites  
applications for the following position:**

**C3-Professorship  
T-Cell Immunity in Malignant Disorders  
(5 years limited)**

The Position is situated at the First Department of Internal Medicine, Haematology and Oncology and includes responsibilities for teaching and research in the area of cellular tumor immunology with an emphasis on T cell immunity in cancer. The position is limited to 5 years. A prerequisite for the appointment is a proof of habilitation or equivalent scientific qualifications as well as sufficient experience as a group leader.

Applicants should be qualified by an international reputation in scientific research and integrate, with their scientific work, within the prevailing work and special projects of the Department. These projects include novel basic and applied research in cancer immunotherapy. Substantial knowledge in epitope discovery techniques are major scopes within the designed workpackage and should therefore be completely covered by the applicant. Furthermore, experience in experimental immunotherapeutic clinical trials (preferentially haematological disorders) is necessary to ensure an optimal integration within the overall clinical structure.

Applicants are requested to send their CV with the usual supporting documents by May 15, 2001 to the Dekan der Medizinischen Fakultät der Universität zu Köln, 50924 Cologne, Germany.

Disabled and/or female applicants of the same scientific standard will be given preference. Because the University wishes to increase the number of its female scientists, women are especially encouraged to apply for this position.

**Director of Communications**

The **Howard Hughes Medical Institute (HHMI)**, one of the world's largest philanthropies devoted to biomedical research and science education, is seeking a **Director of Communications** to join our headquarters in **Chevy Chase, MD**.

In this role, you will report directly to HHMI's President and lead the development and administration of a comprehensive communication strategy and a program that promotes the Institute's scientific/educational objectives, activities, and achievements to specific constituencies, as well as the general public. You will direct HHMI's print and electronic publications program, manage HHMI's public relations, and serve as a key link to government officials in the Washington, DC area.

Candidates are expected to have a Bachelor's degree (advanced degree(s) are desirable), at least 10 years of experience as a communications or public affairs professional in positions of increasing responsibility, at least 5 years of experience managing a large communications or PR staff, superior communication skills, and a proven ability as a strategic thinker/manager. A lively interest in biomedical science is essential, and a scientific background or working knowledge of current biomedical research issues is highly desirable. Experience as a journalist and familiarity with the science press is also preferred.

Interested candidates should submit curriculum vitae **no later than April 30, 2001**. Send application materials to: **Howard Hughes Medical Institute, Attn: Reid Knight, Director of Human Resources, 4000 Jones Bridge Road, Chevy Chase, MD 20815**. E-mail: [resumes@hhmi.org](mailto:resumes@hhmi.org) HHMI is an Equal Opportunity Employer.

[www.hhmi.org](http://www.hhmi.org)

**HHMI**  
HOWARD HUGHES MEDICAL INSTITUTE



## Biotechnology Profiles

### Who we are

The Vitamins and Fine Chemicals Division of F. Hoffmann-La Roche Ltd is a world-leading supplier of vitamins and other natural products to the feed, food, pharmaceutical and cosmetic industries. The Division discovers, develops, produces and sells ingredients that play important roles in the nutrition, maintenance of health and prevention of disease in humans and animals.

The department of Biotechnology is seeking several talented and enthusiastic Ph.D. scientists to participate as lab leaders and/or postdocs in the Genomics & Discovery programs within the Biotechnology department. All positions are based at Roche's Research Center near Basel, Switzerland. Each lab leader has the responsibility for up to 2 technical staff; postdoc positions typically run for 1-2 years. All scientists will be part of a multidisciplinary team and require excellent ability to communicate and collaborate.

### Molecular Biology

You have a proven track record in genomics and molecular biology of Eukaryotes, ideally in the field of metabolism. We expect a Ph.D. in Molecular Biology with at least 2 years postdoctoral experience and a strong background in genomics and modern molecular biology techniques. You will contribute to target identification using genomic tools, assessment of novel targets, and development of tools for new natural compound discovery programs. Job Code: MB

### Cellular Biology/Molecular Physiology

This position requires a Ph.D. in pharmacology or cell biology with 2-3 years postgraduate experience in the field of physiology of nutrition or metabolic diseases. You will use in-depth knowledge of metabolism/signal transduction and modern Cellular Biology tools to contribute to target validation, develop and implement novel cell-based assays and to characterize lead compounds emerging from natural compound high-throughput screens. Job Code: CB

### Genomics

You will apply array-based methods and other genomic tools to the study of gene expression in microorganisms with the ultimate goal to engineer improved production strains for fine chemicals. You will be part of a multidisciplinary team also covering proteomics and metabolomics that will establish an integrated functional genomics approach for the better understanding of the physiology of such microorganisms. This position requires a Ph.D. in genetics/genomics/ molecular biology with proven experience in expression profiling (microarray technology), bioinformatics, and data mining. Job Code: Ge

### Proteomics

You will apply proteomics tools to the study of protein expression in microorganisms with the ultimate goal to engineer improved production strains for fine chemicals. This position requires a Ph.D. in protein biochemistry/proteomics with proven experience in 2D-gel electrophoresis, mass spectrometry, bioinformatics, and data mining. Job Code: Pr

### High-Throughput Screening

This position requires a M.S., Ph.D., or engineering degree with 2-3 years industrial experience in the field of lab automation, cellular or enzymatic assay development and involves performing general screening assays in support of existing internal and collaborative projects. You bring expertise and familiarity with high-throughput assay methodologies, automation, analysis, and data management. Job Code: HTS

### Natural Product Chemistry

This position requires a Ph.D. in the field of phytochemistry, or natural compound isolation and purification supported by experience in plant extract fractionation, dereplication and structure elucidation. A minimum of 3 years in an industrial or academic setting is required. Additional experience in screening assays and bioactivity guided fractionation will be considered a plus. Job Code: NPC

### Who to contact

Please send your application and CV to: F. Hoffmann-La Roche Ltd, Mrs Susanne Kenel, VH, Building 241/703, P.O. Box, CH-4070 Basel, quoting reference: Ke4183 For further information on the positions, please contact Mr Luis Pasamontes, Head of Biotechnology, on 001-973-284 5911, or via e-mail: [luis.pasamontes@roche.com](mailto:luis.pasamontes@roche.com).

# THE UNIVERSITY *of York*

## THREE NEW RESEARCH CHAIRS IN PLANT SCIENCE

CENTRE FOR NOVEL  
AGRICULTURAL PRODUCTS  
DEPARTMENT OF BIOLOGY

The Centre for Novel Agricultural Products (CNAP) is a new academic research centre within the Department of Biology at York. CNAP's focus is fundamental molecular science underpinning the use of plants as cell factories to manufacture products of value to society. CNAP is supported by substantial core funding to establish a wide-ranging research programme, IP development office and centre infrastructure.

CNAP will be located in the new £21 million bioscience development on the York campus, adjacent to: (a) research laboratories of the Biology Department specialising in biochemistry, biomedical science, plant science and ecology; (b) a Technology Facility encompassing state-of-the-art molecular facilities and (c) the Structural Biology Laboratory of the Department of Chemistry, with expertise in X-ray crystallography, protein engineering and molecular modelling. This new development will be completed in June 2002.

Outstanding individuals with an internationally recognised track-record of creativity and innovation in plant science are invited to apply for three new Research Chairs in CNAP to complement the existing activities of Dianna Bowles, Ian Graham and Simon McQueen-Mason. Our aim is to develop new science relevant to the design of industrial products from plants including, for example, such areas as pharmaceuticals, medicinal compounds and bioremediation. At capacity, CNAP will consist of 100-120 researchers.

We are looking particularly for individuals who enjoy working in a collaborative, multi- and inter-disciplinary way and are keen to apply their creative energy to research addressing societal needs. It is likely you will have trained in molecular genetics and/or biochemistry, have developed your own group for 5-10 years and have established world-class recognition for research in an area of plant science relevant to CNAP's mission.

Salaries will be within the professorial range (current minimum £37,493 per annum).

Informal enquiries can be made to the Research Director of CNAP, Professor Dianna Bowles - tel: +44 (0)1904 434334, email: wjs3@york.ac.uk

For further particulars and details of how to apply, please write to the Personnel Office, University of York, Heslington, York YO10 5DD or email: jobs@york.ac.uk quoting reference number 12/1000. The closing date for applications is 15 May 2001.

## POSTDOCTORAL POSITIONS IN HIV RESEARCH

A postdoctoral research position is available to work in one of our HIV laboratories. The college provides a stimulating environment and an ideal place for AIDS research.

<b>Jurgen Brojatsch</b>	Molecular determinants for HIV induced cell killing
<b>Tanya Dragic</b>	Mechanisms of HIV-1 entry into target cells
<b>Harris Goldstein</b>	HIV Immunopathogenesis and Therapy using SCID-Hu and Transgenic Mouse Models
<b>Ganjam V. Kalpana</b>	Role of host factor IN11/hSNF5 in early and late events of HIV-1 replication
<b>Jack Lenz</b>	Molecular genetics of human retroviruses; HIV1 neutralizing antibodies
<b>Vinayaka R. Prasad</b>	HIV-1 Reverse Transcriptase: Determinants of Fidelity, Processivity and Drug Resistance

Only U.S. citizens and U.S. permanent residents are eligible to apply. Applicants should send CV and names of three references addressed to the faculty member of choice, by email, to: **Ms. Raquel Bowlan**: [rbowlan@aecom.yu.edu](mailto:rbowlan@aecom.yu.edu) Albert Einstein College of Medicine is an Equal Opportunity Employer



**ALBERT EINSTEIN  
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## BIOMEDICAL ENGINEERING FACULTY POSITIONS

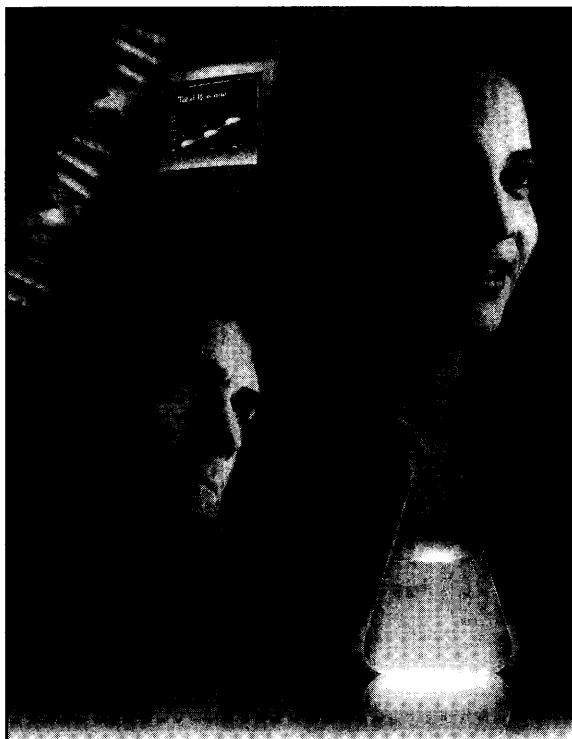
The Biomedical Engineering Department at USC is engaged in a major expansion supported through the School of Engineering, the Alfred E. Mann Institute and a Special Opportunity Award from the Whitaker Foundation. For the first phase of this expansion we invite applications for tenure-track faculty positions at all levels in the areas of device/diagnostic technologies and neural systems.

The successful candidates in device/diagnostic technologies will provide leadership in establishing research/educational programs leading to the next generation of biomedical device and diagnostic technologies. Areas of interest include molecular and chemical sensing; biochemical, mechanical, optical microsystems; smart sensor and diagnostic technologies; implantable devices.

In the area of neural systems the successful candidate will be expected to complement the Department's existing strengths by establishing an independent research program in: computational neural science; sensory systems; motor control; neural/device interfaces; neural prostheses.

Faculty will have the opportunity to work with the technology development professionals of the Alfred E. Mann Institute for Biomedical Engineering at USC to translate their fundamental research discoveries into commercially viable biomedical technologies to improve human health.

Applicants should submit a curriculum vitae and research/education statement along with suggested references to: **David Z. D'Argenio, Chair, Dept. of Biomedical Engineering, University of Southern California, Los Angeles, CA 90089-1451.** USC is an Equal Opportunity/Affirmative Action Employer.



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## The Face of Pfizer

careers that matter

### **Biomarkers BS/MS Scientist (Groton)**

You will contribute to identifying and characterizing protein, gene, transcript, and other biochemical markers to support the clinical development of new chemical entities (NCEs). This includes markers that confirm the NCEs' mechanism of action, demonstrate a pharmacodynamic response, or relate to disease state, progression or severity. We require a BS in Biological Sciences; an MS in Biochemistry, Immunochimistry, Protein Chemistry or Molecular Biology is preferred. Also needed are 2+ years experience in at least 1 disease area (neurodegeneration, psychotherapeutics, inflammation, etc.) and with many laboratory techniques (protein isolation and purification, protein and gene expression analysis, immunoassays, PCR, HPLC, etc.) Req. # 23Feb0103071

### **Pharmacogenomics BS/MS Scientist (Groton)**

You will contribute to a premier laboratory using human genetic analysis methods to support early and late-stage clinical development and discovery programs and assist in developing and implementing an automated high throughput genotyping platform. We require a BS (MS in Human Genetics or Molecular Biology preferred) and 2+ years relevant experience in a human molecular genetics laboratory, including molecular biology techniques such as PCR, DNA sequencing and plasmid cloning. Req. # 26Feb0103037

### **Scientist/Sr. Scientist, Computer-Assisted Drug Discovery (Ann Arbor)**

You'll collaborate with therapeutic project teams and computational and structural scientists to advance ongoing discovery projects by introducing the latest computational approaches. Your focus will include structure-based library design, QSAR, developing and applying pharmacophore models, HTS triage, docking and scoring, and NMR screening. We require a PhD in Chemistry or a related discipline and 0-3 years postdoctoral experience in an industrial or academic setting. We desire experience applying molecular modeling software to drug discovery and expertise in 1 or more of the following areas: QSAR, pharmacophore modeling, protein structure-based design, virtual screening, computational analysis of HTS data, computational ADMET, and programming. Req. # 08Feb0102529

### **Computer-Assisted Drug Design/ADME Property Optimization (Ann Arbor)**

In collaboration with therapeutic groups, you will use innovative 3D structure-based design, state-of-the-art software and hardware and leading modeling techniques to expedite drug discovery and support development. Responsibilities include providing structure-activity, structure-metabolism and structure-property relationship analyses; facilitating ongoing discovery programs; and identifying successful drug candidates. This position requires a PhD in Chemistry, Pharmaceutical Chemistry or Biochemistry, the ability to solve problems using computational methods, a strong background in molecular modeling/computational chemistry and experience in macromolecular modeling, QSAR, chemometrics, pattern recognition, machine learning and/or statistical methods. Req. # 30Nov000972

### **Sr. Scientist, Protein Purification and Crystallization (Ann Arbor) (2 positions)**

Taking on a scientific leadership role within a protein biochemistry group, you'll help produce purified proteins for biological assays and structural biology (NMR and X-ray) and crystallized proteins. We require a PhD in Protein Biochemistry or a related field and 5 years experience in large-scale protein purification and crystallization; an MS/BS with 8 years experience will be considered. Experience leading scientific teams or with automation for high throughput protein production is highly desirable. Req. # 20Feb0102881

### **Scientist, Sr. Scientist (Ann Arbor)**

You'll support Baculovirus research and development efforts and scale up small-scale cultures for growth and infection in bioreactors to produce cells, proteins, or viruses for projects, taking part in the operation and maintenance of the bioreactors. This requires a BS/MS/PhD in Biology, Molecular Biology, Engineering or a related discipline with 5+ years experience in Baculovirus expression systems for large-scale production of purified proteins. In-depth experience in bioreactors for high density cultures of insect and mammalian cells is highly desirable. Req. # 22Feb0102933

Pfizer offers an exceptional work environment complete with training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating the appropriate Req. # in the subject field, to [SCI@pfizerresumes.com](mailto:SCI@pfizerresumes.com). If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.



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Canada is investing in world-class researchers.

If you are a top researcher in your field, here is an opportunity to advance your career among world-class colleagues and gain access to top graduate students and state-of-the-art research facilities. The Government of Canada is investing \$900 million to support the establishment of 2,000 Canada Research Chairs in Canadian universities by 2005.

Our plan is to maintain and augment the critical mass of researchers at Canadian universities in the natural sciences, engineering, health sciences, social sciences and humanities.

Tier I Chairs have a seven-year renewable term and will be offered to researchers acknowledged to be leaders in their fields. Tier II Chairs are five-year Chairs, renewable once, which will be offered to researchers who are acknowledged to have the potential to lead in their field. Canada Research Chairs are open to Canadians as well as non-Canadians.

For program information and links to Canadian universities, visit the Canada Research Chairs Web site at [www.chairs.gc.ca](http://www.chairs.gc.ca).



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# fresh new challenges



Canada

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**Dynamic. Exciting. Innovative.** BASF Plant Sciences L.L.C. has brought the future of plant biotechnology to Research Triangle Park (RTP). Join us in one of our exceptional career opportunities.

### Bioinformaticians

Positions available to integrate gene sequence, gene expression, gene mapping & metabolite profiling; and/or develop and oversee systems for tracking sample and data flow through genomic processes. The ideal candidate must have a BS, MS or Ph.D. and relevant experience.

### Research Scientists/Lab Leaders

The ideal candidate will have a Ph.D. and 1-3 years of experience in biological or agricultural sciences with a focus on plant molecular biology or genetics and a background in plant physiology, plant abiotic stress, lipid metabolism, genomics, or crop transformation. Postdoctoral research is desirable, as is research from molecular to whole-plant level.

### Postdoctoral Scientists

The ideal candidate will have a Ph.D. in biological or agricultural sciences with a focus on plant physiology, plant biochemistry or plant molecular biology. A background in oil biosynthesis or stress tolerance is highly desirable.

### Research Associates

To qualify, you must have a BS or MS in biochemistry, molecular biology or an agricultural science. 2 years of relevant experience is desirable. A background in one of the following is required: growth and maintenance of plants in growth chamber/greenhouse, plant cell and tissue culture, plant transformation, transgene expression analysis, RNA extraction, cloning, PCR, sequencing, production of microarray slides and high throughput biology.

### Research Associate (High Throughput Process Developers)

To qualify for these positions, you must have a background relevant to engineering high throughput molecular biology processes or implementation of robotic systems. Experience with liquid handling systems, programming of automation, high throughput process development and familiarity with molecular processes is desirable.

As an industry leader, we offer attractive salaries, comprehensive benefits and outstanding growth potential. Accelerate your career as you improve your quality of life. Apply today. Send your resume with cover letter, indicating position of interest and salary requirements to **Attn: HR Department, BASF Corporation 26 Davis Drive, RTP, NC 27709.** Fax: 919-572-2319. E-mail: [recruiting@basf.com](mailto:recruiting@basf.com) (ASCII text format, no enclosures please). No search firms. Equal opportunity employer. Please go to [www.basf-plant-science.com](http://www.basf-plant-science.com) for additional information.

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## LABORATORY DIRECTOR

*Covance Central Laboratory Services is a worldwide leader in providing the pharmaceutical industry with innovation solutions to improve health and the quality of life.*

We are seeking a post doctorate molecular biologist with effective interpersonal skills to manage the technical and administrative aspects of our Genomics Department at Covance Central Laboratory Services in Indianapolis. Three to five years clinical laboratory experience required. Covance will support candidate's efforts to earn a MBA.

Duties would include: approving operating policies and technical procedures in accordance with Company and NCCLS standards to ensure all procedures and processes meet CLIA/CAP/New York state requirements; develop and coach direct reports and staff by preparing and conducting formal performance evaluations; consult with sponsor representatives on testing required to meet their scientific objectives.

We offer medical/dental/vision insurance, tuition reimbursement, and 401(k). Please submit your resume to: **Covance, Lab Director-HR, 8211 SciCor Drive, Indianapolis, IN 46214; or fax (317) 616-2369; or apply on line at [www.covance.com](http://www.covance.com).** Equal Opportunity/Affirmative Action Employer H/V.

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*The merger of the pharmaceutical companies Hoechst Marion Roussel and Rhône-Poulenc Rorer into the new global player Aventis Pharma is creating new opportunities within the pharmaceutical industry. Aventis Pharma combines an innovative pipeline with strong growth of new products in all of the world's major markets.*

For our Disease Group Thrombotic/Degenerative Joint Diseases in Frankfurt/Germany, we are now seeking a

## **Research Scientist**

**with expertise in pharmacology**

### **Your responsibilities will be**

- to direct the work of technical staff
- to perform animal experiments in the area of osteoarthritis as part of the research projects in the disease group
- to establish and validate pathophysiological and pharmacological parameters of novel in vivo models of osteoarthritis at Aventis and in collaboration with external scientific institutions

### **We require you to have**

- an M.D., V.M.D. or Ph.D. (zoology major) degree; at least 2 years of postdoc experience (preferentially in the U.S.)
- publications in scientifically distinguished journals
- long standing experience in the planning and performance of pharmacological animal experiments in the area of osteoarthritis
- experience in contributing to interdisciplinary project teams in pharmaceutical research.

Due to the international nature of your work, excellent knowledge of English language is essential. We are looking for an independently thinking and acting,

highly self-motivated and dependable team player, who is able to deploy these attributes effectively in the management of employees.

### **We offer**

- compensation commensurate with performance and requirements
- the wide-range benefit package you would expect from a large company
- good opportunities for career development

A highly motivated, internationally focused team awaits you.

To apply, please send a resume and curriculum vitae indicating your full career details to

### **Aventis Pharma Deutschland GmbH**

Human Resources Recruitment & Marketing  
Building D 706  
D-65926 Frankfurt am Main  
Germany

e-mail:  
ApplicationService.Pharma@Aventis.com

## POSITIONS OPEN



### CHAIR, DEPARTMENT OF SURGERY THE UNIVERSITY OF MICHIGAN

The University of Michigan Medical School is seeking an academic leader to direct the teaching, research, and patient care programs of its Department of Surgery. Qualifications include an M.D. degree and Board certification in surgery, national stature as a Physician-Scientist, demonstrated clinical excellence, commitment to medical and graduate medical education, and significant experience in a leadership role in an academic medical center. The position includes a **TENURED FACULTY APPOINTMENT**. Please respond by May 15, 2001, to: **Dr. Kevin K. Tremper, Chair, Surgery Chair Search Committee, c/o Office of the Dean, Attention: Stephanie Campbell, University of Michigan Medical School, M4101 Medical Sciences Building I, Ann Arbor, MI 48109-0624.**

*The University is a nondiscriminatory/Affirmative Action Employer.*

New College of the University of South Florida invites applications for a tenure-track position in plant science at the **ASSISTANT PROFESSOR** level starting August 2001. We seek a broadly trained candidate with a Ph.D. in the biological sciences and a research area that focuses on fundamental mechanisms in plant biology. Desirable areas include but are not limited to plant physiology, plant-insect interactions, population, or ecosystems processes. The successful candidate must be committed to excellence in teaching and research at a highly selective undergraduate college. New College, situated on the Gulf Coast of Florida and Sarasota Bay, is a nationally recognized public liberal arts honors college with an 11:1 student/faculty ratio. A senior thesis is required of all students, and undergraduate research is a vital component of our curriculum. Teaching expectation is two courses per semester and includes coverage of general plant science as well as the individual's area of specialty. In addition, the successful candidate is expected to supervise tutorials, independent study projects, and senior thesis projects and to establish and maintain a program of research appropriate to a quality liberal arts and sciences college. By April 30, 2001, send curriculum vitae; three letters of reference; a statement of teaching philosophy and interests; undergraduate and graduate transcripts; and a description of proposed research including how undergraduates will be involved, to: **Dr. Sandra Gilchrist, Division of Natural Sciences, New College of USF, Sarasota, FL 34243-2197.** For additional information, see [website: www.newcollege.usf.edu](http://www.newcollege.usf.edu) (no electronic applications, please). *USF is an Equal Opportunity Employer/Affirmative Action/Americans With Disabilities Act Institution; women and minority candidates are encouraged to apply.*

### ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY

The University of Texas Health Center at Tyler is expanding its research program in tuberculosis and is recruiting a faculty member with expertise in molecular microbiology to contribute to ongoing work on the pathogenic factors that control growth of *Mycobacterium tuberculosis*. This is a hard-money, state-funded position. The successful candidate will collaborate with four other NIH-funded Investigators who study the pathogenesis and immune response to tuberculosis. Experience in molecular mycobacteriology preferred. Information about the institution can be obtained at [website: www.uthct.edu](http://www.uthct.edu). Send curriculum vitae and the names of three references to: **Dr. Peter F. Barnes, Director, Center for Pulmonary and Infectious Disease Control, University of Texas Health Center, 11937 U.S. Highway 271, Tyler, TX 75708-3154. E-mail: peter.barnes@uthct.edu.** *Equal Employment Opportunity/Affirmative Action Employer; Minorities/Females/Veterans/Disabled.*

## POSITIONS OPEN

### FACULTY POSITIONS The Ohio State University College of Medicine

The Department of Molecular and Cellular Biochemistry invites applications for tenure-track positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. The applicants should have a minimum of three years of postdoctoral experience backed by publications in established journals and the ability to generate research support. The Department has already recruited outstanding Scientists in the past four years. This recruitment will focus on the molecular/genetic/biochemical mechanisms of human diseases, with emphasis on cardiovascular diseases, cancer, endocrine diseases, and free radical-mediated diseases. A very attractive start-up package including modern laboratory space will be available. The successful candidates are expected to develop an independent research program and participate in teaching to graduate/medical students. Applicants should submit curriculum vitae; selected reprints; a description of research interests and goals; a history of past and present grant support (applicable to Associate Professor's rank); and the names, addresses, and telephone/FAX numbers of three references to: **Chair, Faculty Search Committee, The Ohio State University, Department of Molecular and Cellular Biochemistry, 333 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** The Search Committee will begin reviewing applications on April 30, 2001. *The Ohio State University is an Affirmative Action/Equal Opportunity Employer.*

### TENURE-TRACK POSITIONS

#### Tel Aviv University Sackler School of Medicine

The Sackler School of Medicine seeks outstanding candidates to fill a number of tenure-track academic positions at the levels of **LECTURER, SENIOR LECTURER, and ASSOCIATE PROFESSOR**. Candidates must hold a Ph.D. or M.D. degree and have postdoctoral experience. Successful candidates will be expected to develop an independent, vigorous research program and be involved in teaching medical and graduate students. An appropriate start-up package will be offered.

Preferred fields of research are human biology, neurosciences, drug research, molecular genetics, functional genomics, bioinformatics, structural biology, microbiology, immunology, metabolism, and physical anthropology. Applicants should send their curriculum vitae, list of publications, and a statement of research program to the address below and ask at least three references to send letters to the same address.

The Search Committee  
c/o Mr. Amit Nitzan  
Sackler School of Medicine  
Tel Aviv University  
Ramat Aviv, Tel Aviv 69978  
Israel  
E-mail: [amitn@tauex.tau.ac.il](mailto:amitn@tauex.tau.ac.il)

Applications and letters should reach the Search Committee no later than June 1, 2001.

The Division of Rheumatology, Department of Medicine, at the University of Massachusetts is seeking a Rheumatologist with a laboratory-based research program to join the faculty at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Substantial time (80%) can be devoted to laboratory research.

Applicants for this tenure-track position are requested to send curriculum vitae, bibliography, names of three references, and statement of research interests to: **Robert B. Zurier, M.D., Director of Rheumatology, Department of Medicine, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655.** *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer with a strong commitment to fairness and diversity.*

## POSITIONS OPEN



CANADIAN BLOOD SERVICES

### CANADIAN BLOOD SERVICES POSTDOCTORAL FELLOWSHIPS

Canadian Blood Services (CBS) is accepting applications for Postdoctoral Fellowships to work with our affiliated research and development groups across Canada. CBS has active research programs in transfusion science emphasizing platelets, stem cells, plasma proteins, infectious disease, epidemiology, and clinical transfusion practice. Applicants should have a Ph.D. or M.D. degree and a strong research background. This two-year award includes a salary and research allowance and the possibility of a one-year renewal. Candidates must select and contact a CBS-affiliated Scientist to serve as the Postdoctoral Fellowship supervisor. A list of CBS-affiliated Scientists and forms are available at [website: www.bloodservices.ca](http://www.bloodservices.ca) and from the research and development office (e-mail: [cilla.perry@bloodservices.ca](mailto:cilla.perry@bloodservices.ca)) of: **Canadian Blood Services, Research and Development, 1800 Alta Vista Drive, Ottawa, Ontario K1G 4J5 Canada.** Application deadline: July 1, 2001.

### DUKE UNIVERSITY EYE CENTER

Duke University Eye Center seeks additional full-time Basic Scientist faculty to join the Department of Ophthalmology. Academic rank and compensation package are commensurate with qualifications and experience. Applicants must have or be competitive in obtaining independent peer-reviewed research funding to establish outstanding research programs related to diseases of the eye. The existing research programs focus on glaucoma as well as diseases of the cornea, retina, and lens. Research involves linkage studies, mutational analyses, pathobiological studies, experiments with transgenic animal models, ocular genomics, and the development of methods for cell/tissue transplantation and ocular gene therapy. Current research facilities are supported in part by a Core Grant for Vision Research from the National Eye Institute and by the Research to Prevent Blindness, Inc.

Successful candidates will be nominated for joint appointments in one of the excellent basic science departments at Duke University.

Applicants should submit complete curriculum vitae and a description of research interests and career development plans to: **Mrs. Cathy Cox, Office of the Research Director, Duke University Eye Center, Box 3802, Erwin Road, Durham, NC 27710.** The names of three references with their addresses, telephone numbers, and e-mail addresses should also be provided. The deadline for receipt of the applications is May 11, 2001. The Search Committee will continue reviewing applications until the positions are filled. *Duke University is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups including minorities, women, and persons with disabilities.*

### FACULTY POSITION VISUAL NEUROSCIENCE University of Oklahoma Department of Cell Biology

A nontenure-track **RESEARCH ASSISTANT PROFESSOR** position is available in the laboratory of **Dr. Muna Naash**. Position is in molecular biology and gene therapy and will have an opportunity to grow into an independent position in the future. Competitive salary is guaranteed for two years with potential extension. Candidates should have three years of experience in general molecular biology and especially in yeast-hybrid systems. Submit curriculum vitae, research interests, and names of three references to: **Dr. Muna Naash, BMSB 553, 940 Stanton L. Young Boulevard, Oklahoma City, OK 73104. E-mail: [muna-naash@ouhsc.edu](mailto:muna-naash@ouhsc.edu).** Details at [website: http://w3.ouhsc.edu/cell\\_biology/faculty-pgs/naash.htm](http://w3.ouhsc.edu/cell_biology/faculty-pgs/naash.htm). *Equal Opportunity Employer.*

## Cheminformatics Programmer

*working for the Scientific Computing section*

The Serono Pharmaceutical Research Institute (SPRI) is an affiliate of the Serono Group which has its Executive Headquarters in Geneva and is a leading multinational engaged in research, development and marketing of new innovative medicines in reproductive health, multiple sclerosis, growth, wasting, cancer and immune diseases.

The successful candidate will work in close relationship with chemists and biologists and will be responsible for the development of novel proprietary algorithms for computer aided:

- screening set selection
- hit and lead optimization
- pharmacological profiling
- toxicological prediction

Candidates should have a university degree (MS, PhD) in either computer science, computational chemistry, chemistry or biostatistics. Experience in qualitative and quantitative methods for analyzing large data sets would be an advantage. Proficiency with Unix, Oracle, and chemical programming is required. Knowledge of web development and some industrial experience would be further valuable assets. The position also requires strong interpersonal skills.

Further information can be obtained informally from Dr Daniel Domine by email: [Daniel.Domine@serono.com](mailto:Daniel.Domine@serono.com)

In addition to a challenging career in a high-technology and creative environment, Serono offers continued training and career development along with an attractive remuneration and benefits package. If you are interested in the above position, please send your curriculum vitae with a list of publications and the name of three referees to the Human Resources Department of the Institute (quoting the advertisement source).

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## Science Writer

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applications from individuals who are currently in post-doctoral positions, but who wish to leave laboratory research for a career as a science writer. Particularly encouraged to apply are individuals with post-doctoral experience in molecular biology, coupled with demonstrated writing and other communication skills. Incumbent will develop a wide range of documents that analyze and present the scientific accomplishments and plans of the NIDDK to the Congress, voluntary health organizations, and other lay audiences and must thus be able to convey in global, understandable terms the contributions of biomedical research to human health. Total salary is competitive and will be commensurate with the experience of the selectee.

Please submit current curriculum vitae to the attention of:

Ms. Deidre Davis  
Office of Human Resource Management  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institutes of Health  
Building 31, Room 9A30  
31 Center Dr., MSC 2560  
Bethesda, Maryland 20892-2560

Applications must be postmarked by April 20, 2001, and received by close of business April 25, 2001.



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## FACULTY POSITIONS IN BIOCHEMISTRY

**St. Jude Children's Research Hospital**, a private research institute, supports a range of investigation directed at discovering the causes and providing treatment for catastrophic diseases of children. Faculty positions are now available with the Department of Biochemistry. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, investigators with appropriate research interests and qualifications will be considered for positions of faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with basic research programs in Virology and Molecular Biology, Immunology, Tumor Cell Biology and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to:

James N. Ihle, Ph.D.  
Howard Hughes Medical Institute  
Chairman, Department of Biochemistry  
St. Jude Children's Research Hospital  
332 North Lauderdale  
Memphis, TN 38105 USA  
E-mail: [kathy.fry@stjude.org](mailto:kathy.fry@stjude.org)

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## POSITIONS OPEN

### FACULTY POSITION IN GENOMICS The UNC School of Dentistry and the Carolina Center for Genome Sciences The University of North Carolina at Chapel Hill

The University of North Carolina is currently seeking applicants for a newly created **TENURE-TRACK FACULTY** position with joint appointments in the UNC School of Dentistry and the new Carolina Center for Genome Sciences (CCGS). The goal of the CCGS is to advance the areas of experimental and analytical genomics, biomolecular informatics, computational biology, and biomedical engineering by developing a multidisciplinary research team and supporting core facilities. This position will offer an outstanding opportunity to work with leaders in the fields of molecular and clinical genetics in an institution with substantial facility support in the areas of human and mouse genetics and bioinformatics. The School of Dentistry has a long tradition of excellence in clinical service, education, and research on oral and craniofacial disorders, and it is situated on the UNC campus with the School of Medicine and the UNC hospitals complex.

We seek applicants with research interests that will further the goals of the CCGS with particular emphasis in the areas of molecular genetics, molecular or cellular physiology, molecular diagnosis, gene therapy, complex genetics, or bioinformatics. Candidates should have a strong research background, a plan to develop and conduct an independent research program, and a desire to contribute to graduate and postgraduate education. The level of appointment will be commensurate with background and experience.

The application deadline will remain opened until a candidate is selected. Review of applicants will begin June 11, 2001. Formal applications should include full curriculum vitae, statement of research interests, and the names and addresses of three references to: **Dr. Patrick M. Flood, Associate Dean for Research, UNC School of Dentistry, CB Number 7455, Chapel Hill, NC 27599-7455.** For further information, contact either: **Dr. Terry Magnuson, Chairman, Department of Genetics and Director, Carolina Center for Genomic Sciences; e-mail: trm4@med.unc.edu; Telephone: 919-843-6475 or Dr. Patrick Flood; e-mail: Pat-Flood@dentistry.unc.edu; Telephone: 919-966-1455.** The University of North Carolina is an Affirmative Action/Equal Opportunity Employer and Educator.

### ASSISTANT/ASSOCIATE/ FULL PROFESSOR Retinal Cell Biology

The Department of Ophthalmology and Visual Sciences at the University of Michigan is recruiting on the tenure track in the area of cell biology of vertebrate photoreceptor cells. The successful applicant should have a strong record of neuroscience research in any of several areas, including molecular neurobiology, cellular physiology, or cellular signal transduction. Working familiarity with retinal research is required, although preference will be given to candidates who additionally have a background outside of exclusively vision disciplines. The future research should be oriented in retinal neurodegenerative diseases in the broadest sense. Studies will complement efforts of current faculty who are studying the pathophysiological basis of photoreceptor degenerations using human molecular genetics, retinal cell and molecular biology, neurophysiology, and histopathology of natural and engineered animal models of retinal degenerations. Joint appointment will be established in a basic science department. Individuals interested in this position should submit their curriculum vitae and bibliography to: **Paul R. Lichter, M.D., F. Bruce Fralick, Professor and Chairman, Department of Ophthalmology and Visual Sciences, The University of Michigan, W. K. Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105.** The University of Michigan is an Equal Opportunity and Affirmative Action Employer and actively seeks diversity in its applicant pool.

## POSITIONS OPEN

### BIOLOGIST

The Biology Department at the College of the Holy Cross invites applications for a two-year visiting appointment in cellular and molecular biology beginning in fall 2001. The successful candidate will teach a laboratory course in cell biology, one or more upper-division courses for biology majors, and a course for nonscience majors. He or she may also supervise undergraduate research projects in cellular or molecular biology. The successful candidate will hold a Ph.D. at the time of appointment.

Holy Cross, with an enrollment of 2,700 students, is a highly selective liberal arts college that values excellence in both teaching and research. Applicants should send or arrange to have sent curriculum vitae, teaching statement, transcripts, representative publications, and letters from three references to: **Dr. Robert Bertin, Chair, Department of Biology, College of the Holy Cross, Worcester, MA 01610.** Review of applications will begin by April 6, 2001, and continue until the position is filled. *The College of the Holy Cross is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to racial, cultural, and gender diversity.*

### NEUROSCIENTIST Stanford University

Applications are invited for a University tenure-track position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level to join the **Nancy Pritzker** laboratory in the Department of Psychiatry and Behavioral Sciences. We are seeking an outstanding cellular/molecular Neuroscientist with research interests in any of several areas including synaptic function, signal transduction, cell biology, or genetics. The appointee will be expected to establish an outstanding independent research program. Applications will be accepted from both Ph.D.s and M.D.s. A generous start-up package is available. Please submit curriculum vitae, statement of research interests, and names of three references to: **Dr. Robert Malenka, Department of Psychiatry, 1201 Welch Road, Room P105, Stanford Medical Center, Palo Alto, CA 94305-5485.**

*Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

### VISITING ASSISTANT PROFESSOR ECOLOGY

Sabbatical replacement position to teach an undergraduate course in ecology and graduate courses in research design and an area of interest. Ph.D. in a biological science and some teaching experience required. Salary commensurate with experience. Information on the Department and a complete position description and requirements can be found at **websites: <http://www.scs.unr.edu/~bioweb/> and <http://jobs.unr.edu>.** Send curriculum vitae and description of teaching and research interests and arrange to have three letters of reference sent to: **Chair, Ecology Search Committee, Department of Biology/314, University of Nevada, Reno, NV 89557.** Review of applications will begin on May 1, 2001. *Equal Employment Opportunity/Affirmative Action.*

### FACULTY POSITION

**ASSISTANT PROFESSOR.** The Department of Otolaryngology, University of Michigan, seeks an applicant with expertise in membrane physiology as it applies to sensory transduction in the auditory system. The position is in the Kresge Hearing Research Institute with a possible joint appointment in the Department of Physiology. The applicant must have a Ph.D. and/or M.D. with at least three years of postdoctoral experience. Please send curriculum vitae and brief summary of research interests and have three letters of recommendation sent to: **John C. Middlebrooks, Ph.D., Search Committee Chair, KHRI, University of Michigan, 1301 East Ann Street, Ann Arbor, MI 48109-0506. E-mail: [jmiddy@umich.edu](mailto:jmiddy@umich.edu).**

*The University of Michigan is an Equal Opportunity Employer and welcomes applications from all qualified candidates.*

## POSITIONS OPEN

### FACULTY POSITIONS Department of Biological Sciences Purdue University

The Department of Biological Sciences is pleased to invite applications for two tenure-track faculty positions: (1) Plant genetics. We are especially interested in applicants who use functional genomics, proteomics, or bioinformatics to study plant cell and developmental biology. We will consider well-qualified Scientists at all ranks; however, we prefer to fill this position at the **ASSOCIATE PROFESSOR** or **PROFESSOR** levels. (2) Howard Hughes faculty position. The successful applicant will be involved in undergraduate teaching and will specialize in a field that connects well with one or more of the Department's five broad research areas. We are especially interested in applicants whose scholarship is associated with student learning as it relates to biological curricula. The position is open to well-qualified Scientists at all ranks. This position will be partially funded by our Howard Hughes Medical Institute Undergraduate Education grant.

The successful applicants will have a Ph.D. and appropriate postdoctoral experience; demonstrated excellence in teaching; and will be expected to establish a record of outstanding scholarship in their area of expertise, including extramural funding. For more information about the Department and these positions, access our **website: <http://www.bio.purdue.edu>.**

Applicants should send curriculum vitae, a description of research and teaching experiences, a description of proposed future scholarship, and the names and addresses of three references. Send applications to: (1) **Dr. Stanton Gelvin, Chair of the Plant Genetics Search Committee** or (2) **Dr. Louis Sherman, Chair of the Howard Hughes Faculty Position Search Committee, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907-1392.** Review of candidates will commence immediately and continue until the positions are filled.

*Purdue University is an Equal Opportunity/Affirmative Action Employer. We especially invite applications from under-represented minority scientists.*

### POSTDOCTORAL POSITION ENVIRONMENTAL TOXICOLOGY

To study any of the following areas: (1) mechanisms of oxidative stress and antioxidant behavior of natural chemicals and biological fluids, (2) characterization of cytochromes P450 in submammalian vertebrates and invertebrates, (3) novel reactions catalyzed by alcohol dehydrogenase (ADH-knowledge of enzyme kinetics essential) and comparative biochemistry of ADH as a Phase I metabolism enzyme in toxicology. Must have Ph.D. in biochemistry, toxicology, or related field and be able to work independently; excellent instrumentation skills and experience in protein purification or molecular biological techniques. Innovators are welcomed. Send curriculum vitae and names of at least three references to: **Dr. Gary Winston, Director, Environmental Toxicology Ph.D. Program, Southern University and A&M College, P.O. Box 9264, Baton Rouge, LA 70813.** *Equal Opportunity Employer.*

### POSTDOCTORAL FELLOW Structural Biology

A three-year position is available for structural analysis of the mammalian multienzyme complex of aminoacyl-tRNA synthetases using cryoelectron microscopy and single-particle, three-dimensional reconstruction methods. Applicants should have a recent Ph.D. in biochemistry, biophysics, or related field and experience in computational microscopy. Please send curriculum vitae and a list of three references to: **Dr. Mona T. Norcum, Biochemistry Department, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. E-mail: [mnorcum@biochem.umsmed.edu](mailto:mnorcum@biochem.umsmed.edu).** *The University of Mississippi Medical Center is an Equal Opportunity Employer; Minorities/Females/Disabled/Veteran.*

# Molecular Neuropharmacologist

Merck Sharp & Dohme is part of Merck & Co., Inc., one of the world's leading pharmaceutical companies with over 62,300 employees worldwide. Merck discovers, manufactures and markets a broad range of products to improve human and animal health, and has an unparalleled reputation for innovative research. This year alone the company will invest £2 billion in research and development, a 17% increase on 2000.

**The Neuroscience Research Centre** is fully committed to the discovery of novel therapies for the treatment of disorders of the central nervous system including Alzheimer's disease, stroke, depression, anxiety, chronic pain and migraine. It is one of the largest dedicated neuroscience research laboratories in the world and is a premier site for Merck. It is located in picturesque parkland surroundings on the rural Hertfordshire/Essex border.

We require a highly motivated person to investigate the neurochemical, neuroanatomical and molecular changes associated with pharmacological modulation of central neurotransmitter systems. In particular, we would be interested in applicants with an understanding of the molecular processes underlying cognition. This position would suit a person with a PhD in an appropriate subject and up to 5 years postdoctoral experience.

We offer excellent salary and benefits including private healthcare, life assurance, company pension scheme and, where appropriate, relocation assistance. We have a very active Sports and Social Club and a well equipped gym. There is also an on-site childcare facility.

Please write or e-mail, enclosing a full CV, quoting reference BI00796/2 to: Recruitment Co-ordinator, Human Resources Department, **The Neuroscience Research Centre**, Merck Sharp & Dohme, Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR. e-mail: [tp\\_hr@merck.com](mailto:tp_hr@merck.com) <http://www.msd-nrc.co.uk>



**MERCK SHARP & DOHME**

The Neuroscience Research Centre

## Postdoctoral Research Position National Institute of Allergy and Infectious Diseases National Institutes of Health

A postdoctoral position is available immediately for molecular studies on rotaviruses, agents with segmented double-stranded RNA genomes that are the primary cause of acute diarrhea in infants and young children. Potential research areas include describing the mechanism of genome packaging and replication, identifying determinants affecting viral growth and virulence, and developing a reverse genetics system. Applicants should have a strong background in virology, molecular biology or biochemistry and hold a Ph.D. or M.D. degree. Salary begins at \$31,000 and increases depending on experience. Please send curriculum vitae and the names of three references to:

**Dr. John T. Patton**  
Laboratory of Infectious Diseases  
NIAID  
Bldg. 7, Room 117  
7 Center Drive, MSC 0720  
Bethesda, MD 20892  
FAX: (301) 496-8312  
E-mail: [jpatton@niaid.nih.gov](mailto:jpatton@niaid.nih.gov)

*NIH is an Equal Opportunity Employer*

## GLOBAL OPPORTUNITIES



**University of the  
Sunshine Coast**

*An Equal Opportunity Employer*  
<http://www.usc.edu.au>

## DEAN OF SCIENCE and PROFESSOR Faculty of Science

The University is seeking a dynamic and innovative leader to guide the next stage of development of the Faculty of Science. The Dean holds a pivotal position in the corporate and academic life of this new, rapidly developing University. It is imperative that the Dean be committed to the University's strategic directions, which are closely allied to regional development.

The successful candidate will be responsible for creating and maintaining flexible academic structures that will continue to attract and retain highly qualified staff and students in Science programs of international standard. It is imperative that the successful candidate have high academic standing, proven managerial skills, demonstrable interpersonal communication capabilities and the ability to work collaboratively as a member of Executive staff.

A full-time fixed term appointment is available for a period of five years for the position of Dean and a substantive concurrent continuing appointment is available for the Professorial position.

**Qualifications/Skills:** Applicants should refer to the requirements outlined in the relevant position documentation available from Human Resources.

**Salary:** An attractive remuneration package including a fully maintained motor vehicle and employer superannuation contributions of 17% is available to the successful candidate.

**How to apply:** Before submitting an application, position documentation and selection criteria must be obtained from <http://www.usc.edu.au> or Human Resources at e-mail [careers@usc.edu.au](mailto:careers@usc.edu.au) or telephone +61 7 5430 1188. Applications must quote reference number 000048 and systematically address the selection criteria and include evidence of qualifications and experience plus the names, e-mail and postal addresses, telephone and facsimile numbers of three referees. Further information relating to the position is available from the Deputy Vice-Chancellor, Professor Paul Clark on +61 7 5459 4465.

Applications should reach:  
The Recruitment Coordinator  
Human Resources  
University of the Sunshine Coast  
Maroochydore DC Qld 4558 by  
5:00 pm on Tuesday, 17 April 2001



## POSITIONS OPEN

### DEPARTMENT HEAD DEPARTMENT OF PHYSIOLOGY Louisiana State University Health Sciences Center New Orleans

The LSUHSC, School of Medicine in New Orleans, invites applications and nominations for **PROFESSOR** and Head of the Department of Physiology. The successful candidate should have an internationally recognized research program, significant extramural funding, and an appreciation for teaching excellence. The Department has a strong reputation in the study of alcohol and drug abuse and shock and trauma with teaching responsibilities in the Schools of Allied Health, Dentistry, Graduate Studies, Medicine, and Nursing. Visit the Department's website: <http://www.medschool.lsumc.edu/phys>. The School of Medicine has a tradition of research excellence in basic science and clinical departments and in established Centers of Excellence. Candidates should provide curriculum vitae including a full list of publications; past and current research support; and a brief statement of research, educational, and administrative interests. The candidates should have these materials and three letters of evaluation forwarded to:

**Dr. R. Ranney Mize**  
Chair, Physiology Search Committee  
**Julius H. Mullins Professor and Head**  
Department of Cell Biology and Anatomy  
LSU Health Sciences Center  
1901 Perdido Street, Box P6-2  
New Orleans, LA 70112

LSUHSC is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR (RESEARCH TRACK) Genomics Approaches to Cell Signaling and Diabetes University of Massachusetts Medical School

A junior faculty position on a research track is offered as part of a team of interdisciplinary Investigators working on gene discovery related to insulin receptor signaling and membrane trafficking. A major approach being pursued includes microarray techniques and data mining. Opportunities for independent as well as collaborative research would be available for the successful candidate. Career growth to the research-track **PROFESSOR** level will be encouraged. Laboratory space, instrumentation, and facilities for genomics and proteomics approaches are available within an excellent scientific environment. Candidates with computing skills and at least three years of postdoctoral training that includes genomics and gene database analysis are preferred. Salary and benefits will be highly competitive. Applicants should send curriculum vitae and names and addresses of three references to: **Dr. Michael P. Czech, Program in Molecular Medicine, University of Massachusetts Medical School, 373 Plantation Street, Worcester, MA 01605.** An Equal Opportunity/Affirmative Action Employer.

**ASSISTANT/ASSOCIATE PROFESSOR** position in molecular genetics is available immediately in molecular genetics research. Projects include linkage, mapping and identification of candidate genes for bone density, and mechanical loading in animal and human studies. Candidates must have a Ph.D. in molecular biology/genetics with experience in linkage or association studies, state-of-the-art molecular biology techniques to identify candidate genes and evaluate their functions, and statistics. A strong performance in terms of scientific publications in molecular genetics and successful external grant competition is essential. Our Molecular Genetics Division focuses on mouse genetics, human association studies, and human genetics diseases. Our primary disease interest is in musculoskeletal diseases, particularly osteoporosis. Salary and benefits are competitive, and the possibility exists for a long-term position. Please send cover letter, curriculum vitae, and names of three references to: **Ms. P. Boyer, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.**

## POSITIONS OPEN

### COMPUTATIONAL CHEMISTRY PROGRAMMER

We are currently seeking an individual to join our company as a Computational Chemistry Programmer. The Computational Chemistry Programmer will join an exciting team developing models and related tools for predictive analysis of *in vivo* and *in vitro* pharmaceutical drug properties. The company's informatics projects generate large, high-quality data sets specifically for model development.

The successful candidate will have interest and experience in applying scientific computing and programming to both computational chemistry and computational biology research, along with an understanding of molecular structure interactions. Requirements for the position include a minimum B.S. or M.S. in chemistry and a minimum of three years of experience in software development utilizing one or more of the following: Fortran, C/C++, Python, or Perl in a UNIX environment. Special consideration will be given to candidates with education and experience in biophysics, physics, and/or mathematics. Additional preference will be given to those with experience using HTML and Java. Excellent communication skills, exceptional analytical skills, a high degree of self-motivation, and ability to work as a proactive team member are required.

Cerep offers a competitive total compensation package as well as a dynamic and collegial work environment. Please send your confidential cover letter and curriculum vitae with salary requirements to the following e-mail address: [n.legresley@cerep.com](mailto:n.legresley@cerep.com). To learn more about Cerep, please visit our website: <http://www.cerep.com>.

Cerep is an Equal Opportunity Employer.

### DIRECTOR BIORESOURCE FACILITY

Colorado State University seeks applications for nontenure-track position as Director of biomolecular resource facility. Current facility ([website: http://mmr.bmb.colostate.edu](http://mmr.bmb.colostate.edu)) contains over \$2 million of instrumentation for synthesis, sequencing, and mass spectroscopic analysis of oligonucleotides, DNA, peptides, and proteins. Current staff includes six Postdoctoral/Research Associates, an administrative assistant, and an accountant. In 2002, the facility will move to space (3,800 square feet) in new building to facilitate participation in university genomics/proteomics initiative. Candidates must have M.S. or Ph.D. degree or substantial experience in synthesis/analysis of macromolecules and documented administrative and management skills. For full consideration, complete applications consisting of curriculum vitae; statement of interests; and three reference letters must be received by May 31, 2001. However, applications will be considered until position is filled. Send to: **Dr. N. P. Curthoys, Department of Biochemistry and Molecular Biology, Colorado State University, Ft. Collins, CO 80523-1870.** CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity office: 101 Student Services.

**POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE POSITIONS** are available in Renal-Electrolyte Division of the University of Pittsburgh. Our research efforts are focused on various aspects of ion transport and epithelial cell biology. Current projects include studies of the structure, gating, assembly, intracellular trafficking, and regulation of sodium, potassium, and chloride channels and the regulation of apical protein delivery and endocytosis in polarized epithelial cells. Studies utilize established cell lines, heterologous expression systems, and transgenic/knockout mice. Academic appointment and salary are dependent upon qualifications and experience. Please send curriculum vitae and three letters of reference to: **Thomas Kleyman, M.D., Professor and Chief, Renal-Electrolyte Division, University of Pittsburgh, A919 Scaife Hall, 3550 Terrace Street, Pittsburgh, PA 15261.** E-mail: [kleyman@pitt.edu](mailto:kleyman@pitt.edu). The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

DuPont Haskell Laboratory for Toxicology and Industrial Medicine has established a **POSTDOCTORAL FELLOW POSITION** for the development and/or validation of an animal model for food allergy. Currently Haskell has a research program in allergenicity involving respiratory, dermal, and food allergy that includes senior Scientists with expertise in respiratory toxicology, general toxicology, immunology, immunotoxicology, veterinary pathology, and molecular biology. Models currently being considered in this program are the brown Norway rat and C3H/HeJ and Balb/c mice. This program includes validating known allergens and nonallergens in these animal models and includes studies on specific cytokines by ELISA and PCR techniques, IgE-specific ELISA assays. Mast cell-histamine release assay, and genomic microarrays. This position is specifically to work on the food allergy portion of this program, and the individual should have appropriate/prior experience in food allergy.

This position is immediately available. If you know of anyone who may be interested in this position, have them send their curriculum vitae and three letters of recommendation to: **Mary Jane Hudson, Personnel Department, DuPont Haskell Laboratory, P.O. Box 50, Newark, DE 19714.** E-mail: [Mary-Jane.Hudson-1@USA.dupont.com](mailto:Mary-Jane.Hudson-1@USA.dupont.com).

**RESEARCH PROJECT ADMINISTRATOR** needed to efficiently and effectively manage the use of project resources, submit progress reports to funding agencies, coordinate education and outreach activities, and play a vital role in proposal drafting and submission. This nontenure-track position requires an earned Doctorate in the biological, ecological, or Earth sciences. Experience with federal funding agencies, basic accounting practices, project management, and a proven record of research and dissemination will be considered in the selection process. Full-time salary: \$40,000 to \$50,000. This position is funded 75% by the SGS-LTER (50% project administration and 25% SGS-LTER-related research). The remaining 25% of funding is the responsibility of the incumbent. To apply, send cover letter; curriculum vitae; and list of professional references (by April 30, 2001) to: **Robin Kelly, Project Manager, SGS-LTER, College of Natural Resources, Colorado State University, Fort Collins, CO 80523-1470.** CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity Office: 101 Student Services.

### ONLINE TEACHING ASSISTANTS

Creighton University is seeking Teaching Assistants for anatomy, biochemistry, microbiology, pharmacology, pharmacy, and pharmaceuticals courses in a Web-based, distance Doctor of Pharmacy program. An individual can be in charge of up to 20 students and three hours of interaction over the Internet per week. He/she is expected to facilitate and respond to student online discussions, monitor student participation/progress, and to hold a "virtual" office hour. Other responsibilities will be coordinated with the Instructor of Record. Mentors must be interested in working with students and committed to the process. A sound understanding of the subject matter is required. For more information, contact: **Kelly Anderson, Pharm.D., Mentor Coordinator; e-mail: [kja77956@creighton.edu](mailto:kja77956@creighton.edu).**

**POSTDOCTORAL POSITION** available immediately in well-funded laboratory (NIH R01 support) for Cell Biologist/Physiologist interested in combining state-of-the-art, live cell video microscopy and molecular biology to study airway epithelial cells. Research will focus on signaling pathways underlying mucin granule exocytosis in human and animal cell models. Candidates with Ph.D., M.D., or D.V.M. degrees and highly skilled in microscopy or molecular techniques should forward their curriculum vitae and a brief statement of research interests to: **C. William Davis, Ph.D., University of North Carolina at Chapel Hill via e-mail: [cwdavis@med.unc.edu](mailto:cwdavis@med.unc.edu).** The University of North Carolina is an Equal Opportunity Employer.

# **— DIRECTOR —**

## **of the National Institute for Biological Standards and Control**

*to succeed Dr Geoffrey Schild on his retirement in 2001*



*NIBSC is a world-leading laboratory for preparing and calibrating standards to define the activity and quality of biologicals used in medicine (including vaccines, blood products and biotechnology products) and for related research. It is funded by the UK Department of Health and is responsible to the National Biological Standards Board. The Institute acts as the leading WHO international laboratory for biological standards and is an Official Medicines Control Laboratory of the European Union.*

NIBSC has a dynamic programme of research and development in the field of biologicals, fuelled by advances in genetics, cell science, diagnostics and biotechnology. The Institute's 280 staff are based in Hertfordshire (20 miles north of Central London), in laboratories recently extended for state-of-the-art processing of biological standards.

The Director of NIBSC sets the scientific policy for the Institute and its 10 scientific divisions. The present Director advises the UK Government - and, through WHO, other governments - on the quality of biologicals and associated public health implications. The Director and the Institute liaise closely with UK Health Departments, WHO, the European Department for the Quality of Medicines, the European Medicines Evaluation Agency, the UK Medical Research Council, the pharmaceutical industry and many other organisations.

For this position, the Board seeks a high calibre individual with appropriate scientific or medical qualifications, who has demonstrated outstanding ability in a relevant field, and who will provide the leadership required to continue developing the Institute's national and international work and its high scientific reputation.

**Further details, and information on how to apply, can be obtained from Dr Kevin Young  
Euromedica plc, 7 Heron Quays, Docklands E14 4JB, UK. Telephone +44 (0)20 7536 7961  
email: kevinyoung@euromedica.com. Closing date: 30 April 2001.**



### **Tenure-Track Faculty Positions** **School of Medicine, Department of Microbiology** **Bacterial and Viral Pathogenesis**

The Department of Microbiology of the University of Pennsylvania School of Medicine is seeking applicants for at least two tenure-track faculty at the level of Assistant Professor/Associate Professor or above. Academic rank will be commensurate with credentials and experience. We are seeking applicants who are conducting research in bacteria or viruses, especially in the areas of pathogenesis or genomics, to join an active group of investigators at the University. The position offers an attractive start-up package, newly renovated laboratory space, and an outstanding research environment. Candidates should have a Ph.D. or M.D. degree, a strong record of research accomplishments, and an interest in graduate and medical education. Applicants should submit a curriculum vitae, a statement of current and future research interests, and arrange to have three letters of reference sent by July 1, 2001, to:



**Search Committee,  
Department of Microbiology,  
University of Pennsylvania,  
225 Johnson Pavilion,  
Philadelphia, PA 19104-6076**

*The University of Pennsylvania is an affirmative action/ equal opportunity employer. We strongly encourage applications from women and under-represented minorities.*

### **GLOBAL OPPORTUNITIES**

## **Fellowship Program for Postdoctoral Research in Japan**

**In  
Scientific, Technical, Engineering,  
and  
Medical fields  
at National Research Institutes**

**Details available on web site:  
<http://stafellow.jst.go.jp/index.html>**

**or**

**Department of International Affairs  
Japan Science and Technology  
Corporation (JST)**

## POSITIONS OPEN



### SYN-X PHARMA IS SEEKING SCIENTISTS

SYN-X Pharma is a well-established proteomics research and development company that focuses on cardiovascular and central nervous system diseases. We are hiring professionals to work in molecular biology, protein expression, recombinant protein purification, proteomics, and antibody engineering. Positions are open for self-motivated Ph.D.s and M.Sc.s with at least one year of experience and recent graduates with a B.Sc. Candidates must have strong communication and interpersonal skills, dedication, and willingness to learn and grow.

Please submit your curriculum vitae and publication list to: **Personnel Department, 6354 Viscount Road, Mississauga, ON L4V 1H3 Canada.** E-mail: [vecetra@canada.com](mailto:vecetra@canada.com); website: [www.synxpharma.com](http://www.synxpharma.com).

### LERNER CHAIR IN LATIN AMERICAN ENVIRONMENTAL STUDIES Organismic and Evolutionary Biology Department Harvard University

We seek a Biologist who employs comparative, integrative approaches to address major problems in environmental studies in Latin America including plants, animals, ecosystems, global change, or human effects on the environment. The appointment will be at the **TENURED PROFESSOR** level based in the Department of Organismic and Evolutionary Biology and will also carry an affiliation with the Rockefeller Center for Latin American Studies.

By April 30, 2001, applicants should submit curriculum vitae; statement of research and teaching interests; and the names and addresses of three references to:

**Professor Otto T. Solbrig**  
Department of Organismic and  
Evolutionary Biology  
22 Divinity Avenue  
Cambridge, MA 02138 U.S.A.

*Harvard University is an Affirmative Action/Equal Opportunity Employer. We encourage applications from women and minority groups.*

### SCIENTIST: FUNCTIONAL GENOMICS

This individual will lead an interdisciplinary team in the development of novel approaches to functional genomics related to human disease. The successful applicant will have a Ph.D. in molecular biology, cell biology, or a related field with experience in eukaryotic cell transfection, reporter gene expression assays, and construction of eukaryotic expression vectors with two to five years of postdoctoral experience. A practical knowledge of signal transduction and regulation of gene expression is also essential. The ideal candidate will possess strong written and oral communication skills and will thrive in a team-oriented environment.

Please forward curriculum vitae with references to: **Human Resources, Originus Inc., 30720 Roberts Drive, Franklin, MI 48025.** E-mail: [amansour@originusinc.com](mailto:amansour@originusinc.com).

**VIRAL IMMUNOLOGIST.** Advanced Viral Research Corporation seeks Viral Immunologist(s) to investigate mechanism of action of peptide-nucleic acid antiviral biopharmaceuticals, including effects on immune system function. Candidates must be able to design and implement a research program to study role of immunomodulatory drugs in treatment of viral diseases both *in vitro* and *in vivo*. Registered Ph.D. or equivalent and more than two years of postdoctoral experience; expertise in immunology, basic and applied virology, and cell and molecular biology essential. Please submit curriculum vitae to: **Human Resources Department, Reference Number MGAD, AVRC, 200 Corporate Boulevard, South, Yonkers, NY 10701.** FAX: 914-376-7368.

## POSITIONS OPEN

### STAFF CLINICIAN

The Laboratory of Allergic Diseases seeks a Staff Clinician to promote clinical and basic research on mechanisms and treatment of systemic mast cell disorders. The candidate must have an M.D. or M.D./Ph.D. degree and be Board certified in internal medicine and in allergy and immunology. Clinical expertise in the care of patients with hematologic diseases and a strong interest in basic research with an emphasis on hematopoietic regulation of allergic inflammation are preferred. Experience with cellular and molecular biological techniques such as flow cytometry, cell culture, PCR, and sequencing is highly desirable. The candidate will be expected to design and implement clinical research trials pertinent to the mission of the Laboratory of Allergic Diseases, NIAID. Duties will be carried out under the direction of a tenured Scientist. The NIAID is under no obligation to provide resources for the conduct of independent research by the candidate selected. Curriculum vitae, bibliography, six letters of reference, a detailed statement of research interests, and selected publications should be submitted to: **Dr. Dean Metcalfe, Building 10, Room 11C205, 10 Center Drive, MSC 1881, Bethesda, MD 20892-1881.** E-mail: [dmecalf@niaid.nih.gov](mailto:dmecalf@niaid.nih.gov). Salary based on relevant experience and education. Application deadline is April 30, 2001. *NIH is an Equal Opportunity Employer.*

### MECHANICAL ENGINEERING COMPUTATIONAL/THEORETICAL BIOMECHANICS

The Johns Hopkins University, Department of Mechanical Engineering, invites applications for a full-time tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the general area of computational and/or theoretical biomechanics. Multiscale modeling and simulation (possibly enhanced by physical experiments) are of particular interest. The successful candidate is likely to focus on fundamental scientific and engineering research in biomechanics with an emphasis on cellular and subcellular scales. The successful candidate's primary appointment will be in the Department of Mechanical Engineering, and he/she will be a member of the Whitaker Biomedical Engineering Institute at Johns Hopkins University (**website:** <http://www.wbmei.jhu.edu/>). The Institute builds on the internationally recognized research programs of the School of Medicine and the Whiting School of Engineering, including the Department of Biomedical Engineering. The successful candidate must have an earned Doctorate degree and is expected to develop a strong, independent research program as well as contribute to both undergraduate and graduate instruction. Before April 27, 2001, applicants should submit curriculum vitae, the names of at least three references, and a short statement of research interests to: **Chair, Biomechanics Search Committee, Department of Mechanical Engineering, Johns Hopkins University, 200 Latrobe Hall, 3400 North Charles Street, Baltimore, MD 21218-2681.** *Women and minorities are strongly encouraged to apply. The Johns Hopkins University is an Equal Employment Opportunity/Affirmative Action Employer.*

**ASSOCIATE RESEARCH SCIENTIST** available immediately to study cardiomyocyte signal transduction mechanisms that contribute to the pathogenesis of heart failure. The individual will join a large NIH-funded research group that takes a multifaceted approach to studies of cardiomyocyte biology and function and regulation by G protein-coupled receptors. Applicants should have strong credentials in molecular biology or intracellular signal transduction. Send curriculum vitae, brief statement of research interests, summary of research experience, and three letters of reference to: **Dr. Susan F. Steinberg, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032.** *We are an Equal Opportunity/Affirmative Action Institution.*

## POSITIONS OPEN



### SEARCH EXTENDED UNTIL APRIL 13, 2001

**RESEARCH ENTOMOLOGIST.** The U. S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Biological Control of Insects Research Laboratory (BCIRL), Columbia, Missouri, is seeking a permanent full-time Research Entomologist, GS-12/13 (salary range \$51,927 to \$80,279 per annum). The incumbent is assigned to a program of fundamental and applied research to develop and refine systems of biological control agents for rationally based and environmentally responsible management of pest insect and weed populations. Plans and conducts research to determine the potential for development of resistance of *Heliothis/Helicoverpa* species to wild and recombinant baculoviruses. Applicants must have Ph.D. or equivalent and research experience in entomology, insect physiology and biochemistry, ecology, pathology (insect/plant), toxicology, genetics, molecular biology, and insect cell and tissue culture; skill in documenting research results in technical publications; and making presentations at scientific meeting and conferences. Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and an investment plan in addition to a federal retirement plan. *U.S. citizenship is required.* For full text of vacancy announcements which include application information, call: **JoAnne Fernandez; Telephone: 573-875-5293; ARS vacancy website:** <http://www.ars.usda.gov/afm2/divisions/hrd/index.html>. Announcement Number ARS-X1W-1152. For information on the research program and/or position, contact: **Dr. Renée Wagner; Telephone: 573-875-5361, Extension 237.** Applications in response to this ad must be postmarked by April 13, 2001. *USDA/ARS is an Equal Opportunity Provider and Employer.*

### CLINICAL MICROBIOLOGY

Applications are invited for a full-time, continuing appointment at the rank of **ASSISTANT/ASSOCIATE/FULL PROFESSOR** level in the Department of Pathology, Northwestern University Medical School, Chicago, Illinois. This individual is expected to establish an independent and interactive research program in a focused area of microbiology, preferably bacterial pathogenesis in host-parasite interactions. This position will also involve teaching, graduate and postgraduate training, and diagnostic work in the clinical microbiology laboratories of the Northwestern Memorial Hospital and VA Chicago Health Care System, Lakeside Division. Salary and rank will be commensurate with experience. Please submit your curriculum vitae; a statement of areas of interest, expertise, and strengths; and the names of three professional references no later than July 1, 2001, to: **Janardan K. Reddy, M.D., Professor and Chairman, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.** *Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are encouraged to apply.*

**POSTDOCTORAL POSITIONS** are available immediately to study the regulation of signal transduction in T cells by protein ubiquitination (*Science* 286:309, 1999; *JBC* 275:35734, 2000; *JBC* 276:4872, 2001). Prior experience in molecular and cell biology and a strong background in immunology are desired. Send curriculum vitae to: **Dr. Yun-Cai Liu, La Jolla Institute for Allergy and Immunology, 10355 Science Center Drive, San Diego, CA 92121.** FAX: 858-558-3597; e-mail: [hr@liai.org](mailto:hr@liai.org).

## RAMAPO COLLEGE OF NEW JERSEY

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**Position # 789**

### ASSISTANT PROFESSOR OF CHEMISTRY & ENVIRONMENTAL SCIENCE

**Job Description:** Assistant Professor of Analytical Chemistry, one-year replacement position at the Assistant Professor level to teach undergraduate level courses in chemistry. 1. Primary teaching responsibilities include Analytical Chemistry, Instrumental Analysis, Environmental Chemistry and Fundamentals of Chemistry. 2. Student advisement and participation in faculty governance is required. Teaching schedule may include some evening courses.

**Qualifications:** Ph.D. or ABD in Chemistry. College teaching in similar or related areas is strongly preferred. Qualified persons should send a letter of interest, a brief statement of teaching philosophy, vita/resume, and a list of three references as soon as possible to Dr. Robert Shine, School of Theoretical and Applied Science, Ramapo College of New Jersey, 505 Ramapo Valley Road, Mahwah, NJ 07430, or e-mail bshine@ramapo.edu. Review of applications will begin on March 26, 2001 and will continue until the position is filled.

Since its beginning, Ramapo College has had an intercultural/international mission. Please tell us how your background, interest and experience can contribute to this mission, as well as to the specific position for which you are applying. Position offers excellent state benefits.

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Website: <http://www.ramapo.edu>.



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### Pediatric Immunology/Rheumatology

The Division of Immunology/Infectious Diseases/Rheumatology in the Department of Pediatrics, Program in Molecular Medicine at the University of Massachusetts Medical School and the UMass Memorial Health Care System is seeking a Pediatric Immunologist/Rheumatologist for a tenure track position. We seek a physician scientist with a strong commitment to expanding our knowledge in the area of molecular and/or developmental immunology. Clinical responsibilities are limited to a small outpatient practice in pediatric immunology (immunodeficiency) and rheumatology staffed with a highly experienced nurse clinical specialist.

Candidates should be board certified in Allergy/Immunology and/or Pediatric Rheumatology. Academic rank will be commensurate with experience.

The University of Massachusetts Medical School is committed to major expansions of biomedical research in the areas of cancer biology, genetics, neurosciences, chemical biology, immunology and infectious diseases.

Applicants are requested to send a curriculum vitae, bibliography, names of three references, and statement of research interests to: **Katherine Luzuriaga MD, Department of Pediatrics and Program in Molecular Medicine, University of Massachusetts Medical School, Two Biotech, Suite 318, 373 Plantation Street, Worcester MA, 01605.**

The University of Massachusetts is an Equal Opportunity Affirmative Action Employer and applications from individuals of all minority groups are actively encouraged



## GLOBAL OPPORTUNITIES



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### APPOINTMENT AS HEAD, DEPARTMENT OF PHARMACOLOGY

The National University of Singapore invites applications for faculty appointment as **HEAD** of the Department of Pharmacology.

The Department of Pharmacology was established as a biomedical science discipline in the Faculty of Medicine in 1959. The major undergraduate teaching commitment of the Department is in the education and training of students in the Faculties of Medicine and Dentistry as well as the Department of Pharmacy. More recently, the Department has also been offering modular courses in pharmacology to students undertaking the biomedical science degree. The educational strategies used in the delivery of instruction to students emphasise active-interactive learning and include lectures, small group discussions, computer-assisted learning (CAL) and practical laboratory sessions. In addition, Problem-Based Learning (PBL) has recently been implemented as a key feature of the overall medical curriculum and teachers from all disciplines, including pharmacology, are expected to undertake the role of PBL tutors in the tutorial sessions.

Graduate students pursuing MSc, PhD or MD degrees form an important group of research scientists undertaking research supervised by the staff of the Department. Currently, the major areas of research in the Department are pharmacogenetics, pharmacokinetics, neuropsychopharmacology, immunopharmacology, cardiovascular pharmacology and natural products pharmacology. Both basic and applied research are encouraged, as well as interdisciplinary programmatic research. In more recent years, there has been greater emphasis on drug discovery type research. The Department laboratories are well equipped to support current research needs in pharmacology. Research is strongly supported in NUS especially for interdisciplinary long-term projects.

The candidate should be an outstanding scholar who will be able to provide strong leadership in teaching and research in the Department. The candidate should have an excellent track record and have international recognition in pharmacological research. A candidate who has been a director or project leader in a drug discovery type research programme will have an advantage.

Remuneration will be commensurate with the candidate's qualifications and experience. Leave and medical benefits will be provided.

Interested candidates should submit their applications, supported by a resume, and three letters of reference to:

**Dean  
Faculty of Medicine  
National University of Singapore  
10 Kent Ridge Crescent  
Singapore 119260  
Fax: +65-778-5743  
E-mail: [meddean@nus.edu.sg](mailto:meddean@nus.edu.sg)**

**Closing Date: 30 June 2001**

Visit our website at <http://www.nus.edu.sg/NUSinfo/Appoint/med-Pharm.htm> for links to information on the Department, the University, terms and conditions of service, and to download the application form

*Only short-listed candidates will be notified.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to develop strategies for formulating pharmaceutical proteins to prevent aggregation using mutagenesis and self-interaction chromatography (SIC, *Biotechnol. Bioeng.* 52:193, 1996). The individual recruited will construct, express, recover, and spectroscopically characterize site-directed mutant proteins from bacterial culture and conduct SIC analyses with excipients. A great opportunity for those with a strong background in molecular biology to explore applied research. A Ph.D. in a relevant field is a must. Those interested should submit curriculum vitae and names of three references to: **Dr. Todd Przybycien, Chemical Engineering Department, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213-3890. E-mail: todd@andrew.cmu.edu.** Carnegie Mellon University is an Equal Employment Opportunity/Affirmative Action/Equal Access Employer.

## POSTDOCTORAL POSITIONS VASCULAR BIOLOGY Harvard Institutes of Medicine

Our laboratory is investigating the molecular mechanisms underlying normal blood vessel development, angiogenesis, and vascular inflammation with a particular focus on the role of specific transcription factors in this process. A broad variety of experimental techniques and animal models will be used to investigate these areas. Interested candidates should send curriculum vitae and three references to: **Dr. Peter Oettgen, Harvard Institutes of Medicine, 4 Blackfan Circle, Boston, MA 02115. E-mail: joettgen@caregroup.harvard.edu; FAX: 617-975-5299.** Also visit our website: [www.bidmc.harvard.edu/oettgenlab](http://www.bidmc.harvard.edu/oettgenlab).

**POSTDOCTORAL POSITION** available immediately to study yeast prions that serve as a model for the "mad cow" PrP<sup>Sc</sup> prion; see website: <http://www.uic.edu/depts/bios/faculty/liebman.htm> for more information. Applicants with experience in molecular biology including cloning, protein purification and biochemistry, and/or yeast genetics are preferred. Send curriculum vitae with names of three references or inquire to: **Dr. Susan Liebman, Laboratory for Molecular Biology (M/C 567), University of Illinois at Chicago, 900 South Ashland Avenue, Chicago, IL 60607. Telephone: 312-996-4662; FAX: 312-413-2691; e-mail: sueL@uic.edu.** Position remains open until successful candidate is selected. UIC is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in neuroendocrinology: One full-time Postdoctoral Associate position for three calendar years, funded through an NIH grant, is available immediately. Duties for this position include research to determine the gap-junctional communications in the pituitary cells. Research experience in cell culture, microinjection, and immunocytochemistry techniques as well as written and oral communication skills are essential. Research experience in molecular biology is also preferable. Send curriculum vitae and three letters of reference to: **Dipak K. Sarkar, Chair, Department of Animal Sciences, 84 Lipman Drive, Rutgers University, New Brunswick, NJ 08901. E-mail: Sarkar@aesop.rutgers.edu.**

## JOB OPPORTUNITY

A United States subsidiary (based in Seattle, Washington) of a French pharmaceutical company is seeking a recent **PH.D./POSTDOCTORAL** in microbiology or related discipline to initiate and coordinate research with University-based Scientists. Must be imaginative and creative with good communication and people skills. Duties include research coordination at various universities, literature surveillance, database maintenance, and writing protocols. Benefits: competitive salary, health benefits, and paid vacation. Submit curriculum vitae and recent publications to: **Biocodex, Inc., 1910 Fairview Avenue East, Number 208, Seattle, WA 98102.**

## POSITIONS OPEN

## POSTDOCTORAL POSITIONS VASCULAR CELL AND MOLECULAR BIOLOGY Harvard Medical School

Postdoctoral positions are available in the Vascular Research Division, Departments of Pathology, Brigham and Women's Hospital, Harvard Medical School, to study the following projects in vascular cell biology: (1) Structure/function of proteins that constitute endothelial cell lateral junctions and their regulation by stimuli are being studied. Presently, the emphasis is on VE-cadherin and claudin function in the context of permeability barrier and leukocyte trafficking during inflammation (see *J. Cell Biol.* 148:203, 2000). (2) Several aspects of T lymphocyte-endothelial cell adhesion are being studied. Emphasis is on biochemical and molecular identification of selectin-ligands in T helper cells and endothelium using *in vivo* and *in vitro* models (see *Nature* 398:718; *J. Immunol.* 162:3193). (3) Use intravital microscopy (IVM) techniques in leukocyte-blood vessel wall interactions. The focus is on endothelium and its junctional components during inflammation. See our website for details: <http://fwl.bwh.harvard.edu>. Candidates should possess an M.D. and/or Ph.D. with a strong background in molecular biological, immunological, and biochemical techniques; skill with small animal models; and no more than two years of postdoctoral experience. Send curriculum vitae and the names and telephone numbers of three references by FAX or e-mail to: **Dr. Bill Lusinskas, Department of Pathology, Brigham and Women's Hospital, Boston, MA 02115. FAX: 617-582-6188; e-mail: flusinskas@rics.bwh.harvard.edu.** An Affirmative Action/Equal Opportunity Employer.

**GROUP LEADER, PLANT TISSUE CULTURE AND TRANSFORMATION**, to optimize regeneration protocols with recalcitrant and/or woody species. NovaFlora, Inc. is a leader in ornamental plant biotechnology. With a powerful toolbox of trait and enabling gene technology, NovaFlora is well positioned to commercialize a unique range of ornamental plants. Through a license with PBL and the John Innes Center, United Kingdom, NovaFlora owns rights for ornamental plants to GAL, CONSTANS, and TFL. NovaFlora is using these genes to create novel dwarf plants, early flowering plants, and plants with altered architecture. Established in 1993, NovaFlora is a privately held company with a strong entrepreneurial spirit. As a part of our team, you will be expected to contribute to the scientific and commercial success of NovaFlora. In addition to expertise in tissue culture and transformation, you should be a multifaceted, highly motivated individual with excellent communication skills. E-mail applications to: [info@novaflo.com](mailto:info@novaflo.com) or mail to: **NovaFlora, Inc., 3401 Market Street, Suite 350, Philadelphia, PA 19104. Website: [www.novaflo.com](http://www.novaflo.com).**

## POSTDOCTORAL POSITION

An NIH-funded Postdoctoral position is available to study the roles of heparan sulfate and heparan sulfate saccharide sequences in assisting viral infections. Requires a Ph.D. degree, strong training in biochemistry and molecular biology, and experience with separation and characterizations of biomolecules. Background with analysis of carbohydrates is desirable. Send curriculum vitae and names of three references to: **Dr. Jian Liu, Division of Medicinal Chemistry and Natural Products, School of Pharmacy, University of North Carolina, Chapel Hill, NC 27599. FAX: 919-843-5432; e-mail: [jian\\_liu@unc.edu](mailto:jian_liu@unc.edu).**

**POSTDOCTORAL POSITIONS** available in (1) cellular immunology, to participate in autoimmune disease research; and (2) neuroscience, to spearhead research on new neurotrophic factors. Send curriculum vitae to: **Daniel Kaufman, Department of Molecular and Medical Pharmacology, University of California, Los Angeles, Los Angeles, CA 90095-1735. E-mail: [dkaufman@mednet.ucla.edu](mailto:dkaufman@mednet.ucla.edu).**

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** available immediately to study the roles of mammalian BMP-1/Tolloid-related proteases and other gene products involved in extracellular regulation of BMP signaling and formation of the extracellular matrix in morphogenetic, homeostatic, and pathological processes (*Science* 271:360, 1996; *Development* 126:263, 1999; *Nature* 410:475, 2001). Molecular biology, biochemical, and developmental biology/knockout mouse technologies are employed in projects newly funded by NIGMS and NIAMS on a premier biological sciences research campus. Please send curriculum vitae and the names of three references to: **Dr. Daniel S. Greenspan, Department of Pathology and Laboratory Medicine, University of Wisconsin, 1300 University Avenue, Madison, WI 53706. FAX: 608-262-6691; e-mail: [dsgreens@facstaff.wisc.edu](mailto:dsgreens@facstaff.wisc.edu).**

## SENIOR DEVELOPMENT ASSOCIATE/ ASSOCIATE SCIENTIST

Responsible for growth medium development and optimization for various carcinoma cell lines of epithelial origin. Work with high-throughput experiments identifying growth-promoting factors and optimizing existing medium composition. Collaborate with technical groups from external medium vendors and work closely with the process development pilot group. B.S., M.S., or Ph.D. in biological/chemical sciences/chemical engineering; six years of relevant experience (B.S.) or two years of relevant experience (Ph.D.). Please send your résumé to: **Cell Genesys, Attention: Human Resources, 342 Lakeside Drive, Foster City, CA 94404. FAX: 650-349-4785; e-mail: [HR@cellgenesys.com](mailto:HR@cellgenesys.com).** For other job opportunities or more information, visit website: [www.cellgenesys.com](http://www.cellgenesys.com). Equal Opportunity Employer.

## RESEARCH SCIENTIST

Positions of Research Scientist in the laboratory of **Dr. Peter Stambrook** are available. One requires expertise in molecular cloning, vector technology, transgenesis, and database analysis. The second requires interest and experience in analysis of chromosome instability and mechanisms of mitotic recombination and DNA repair. Both positions require previous postdoctoral experience. Applicants should be able to work independently and also as part of a group. Send curriculum vitae and three letters of reference to:

**Dr. Peter J. Stambrook, Chair  
Department of Cell Biology, Neurobiology,  
and Anatomy  
University of Cincinnati Medical Center  
Cincinnati, OH 45267-0521**

**POSTDOCTORAL POSITION** open July 1, 2001, to apply DNA microarray and genomic approaches together with traditional research techniques to study gene regulatory circuits in pathogenic fungi that control expression of virulence factors. Applicants should have a recent Ph.D. in molecular biology or biochemistry (within previous five years) and experience with gene replacement and bioinformatics in fungi. Please send curriculum vitae and names of three references to: **Dr. Paula Sundstrom, Department of Molecular Virology, Immunology, and Medical Genetics, Ohio State University, 333 West 10th Avenue, Columbus, OH 43206. E-mail: [Sundstrom.1@osu.edu](mailto:Sundstrom.1@osu.edu).** Applicants must be U.S. citizens or permanent residents.

**POSTDOCTORAL RESEARCH POSITION** available to study the folding, assembly, and structure of G protein-coupled receptors and related integral membrane proteins. Highly motivated candidates with substantial experience in heterologous overexpression, protein purification, and the manipulation of integral membrane proteins are desirable. Familiarity with basic biochemistry and molecular biology techniques is required. Send curriculum vitae by April 30, 2001, to: **Kevin D. Ridge, CARB, 9600 Gudelsky Drive, Rockville, MD 20850. E-mail: [ridge@carb.nist.gov](mailto:ridge@carb.nist.gov).** The University of Maryland is an Equal Opportunity/Affirmative Action Employer.



## Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and development of new anti-HIV strategies. Research projects include the role of the viral nucleocapsid protein in HIV reverse transcription and investigation of virus assembly. Applicants should have a strong background in molecular biology and some experience working with RNA and proteins; virology background desirable. Less than five years of postdoctoral experience is required. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. Judith G. Levin, Chief**  
Section on Viral Gene Regulation  
Laboratory of Molecular Genetics  
NICHHD, Building 6B, Room 216  
NIH  
Bethesda, MD 20892-2780  
Fax: (301)-496-0243  
Email: [jlevin@mail.nih.gov](mailto:jlevin@mail.nih.gov)  
Website: <http://dir.nichd.nih.gov/lmg/svggr/index.htm>

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## MRC Laboratory of Molecular Biology, Cambridge

### Career-Track Position in Neurobiology

Applications are invited from scientists interested in carrying out a programme of basic research in the Division of Neurobiology. Current research interests focus on the molecular and physiological studies of synaptic function, gene regulation and the molecular basis of neurodegeneration.

Career-track positions are equivalent to tenure-track and are for candidates at an early stage in their career. The appointment, initially for six years, will be to MRC salary Band 2. The starting salary is likely to be in the range of £30,000 - £35,000 per annum, depending on qualifications and experience. This is supported by a flexible pay and reward policy and MRC Pension Scheme. Some financial assistance with relocation may be available.

The Laboratory of Molecular Biology provides an excellent environment for hands-on research. Institutional funding is available and there are no teaching responsibilities. There is an extensive central support including electronic and instrumentation workshops and imaging facilities. Interactions across the four research Divisions within the Laboratory are encouraged. Additional information about the Laboratory may be obtained at <http://www.mrc-lmb.cam.ac.uk>

Further information about positions with the Neurobiology Division may be obtained from Dr Nigel Unwin. Tel: +44 (0) 1223 402492.

Applications should include a full CV, a brief description of research interests and the names and addresses of two professional referees who can be contacted prior to interview. Please quote reference NB/201/5 and e-mail your application to: [recruit@mrc-lmb.cam.ac.uk](mailto:recruit@mrc-lmb.cam.ac.uk) or alternatively send to Lesley Flood, Personnel Assistant, MRC Centre, Hills Road, Cambridge CB2 2QH.

Closing date: 30 April 2001.

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## GLOBAL OPPORTUNITIES

### Faculty Position International Centre for Genetic Engineering and Biotechnology

Applications are invited for the position of International Scientist to form and head a group on Post-Genome Biology to be established at ICGEB, New Delhi, India. Areas of particular interest include but are not limited to: comparative functional genomics, differential gene expression analysis, gene mining, genomics of cell-cell signaling, and protein profiling and identification. Candidates should be proficient in various bioinformatics tools and in accessing sequence databases. A background that includes life sciences and computer expertise will be important. Applicants must have a Ph.D., M.D., or an equivalent degree along with extensive postdoctoral training.

ICGEB, New Delhi, has strong basic research programs in Malaria, Virology, Tuberculosis, Immunology, Plant Biology and Structural Biology. The successful applicant will be expected to develop a competitive and independent research program with the ultimate goal of applying genomics research to the problem of human diseases.

Send resumes to:

**Prof. V.S. Chauhan**  
Head of Component, ICGEB  
PO Box 10504  
Aruna Asaf Ali Marg  
New Delhi - 110 067 India  
Fax: 6162316

E-mail: [virander@icgeb.res.in](mailto:virander@icgeb.res.in)  
<http://www.icgeb.trieste.it>

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### RESEARCH ASSOCIATE

You will participate in a project to characterize the role of chemokines and chemokine receptors in inflammation and to define appropriate therapeutic strategies to modulate this process. In this position, you will develop, implement, and carry out in vivo assays for the identification of novel agents which act as chemokine receptor antagonists. This includes pharmacological characterization and drug validation in animal models of human diseases.

The successful candidate must possess a B.S./M.S. degree in Biology and 2+ years' research experience, preferably in in vivo animal biology. The candidate should be highly motivated, well organized, possess excellent communication skills, and work well in a team environment.

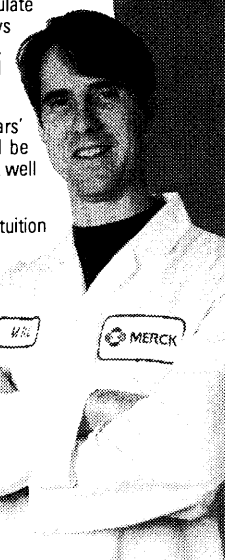
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## POSITIONS OPEN

### DIRECTORS

Oligo or Custom Array Laboratory  
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Division of Human Cancer Genetics

Two positions as laboratory directors of the NCI-funded oligo and custom array laboratories within the Microarray Unit in the Division of Human Cancer Genetics at The Ohio State University are available immediately. The Division is headed by **Dr. Albert de la Chapelle** and is part of the Comprehensive Cancer Center and Solove Research Institute. The two laboratories function as independent yet integrated entities in the Microarray Unit. Research is aimed at the identification of cancer genes and cellular pathways through state-of-the-art expression and mutation profiling methodologies using DNA microarrays. Experience in molecular biology or genetics is required; a background in bioinformatics/computational science is highly desirable. Individuals to be considered for this position should have an M.S. or Ph.D. degree; postdoctoral training in the above areas is desirable.

The successful applicant will assist in the setup of either laboratory as a Comprehensive Cancer Center core facility and function as manager of day-to-day operations and liaison to other users. Interested applicants should forward their curriculum vitae, a brief description of their research interests, and the names of three references to:

Ralf Krahe, Ph.D., Assistant Professor  
The Ohio State University  
Division of Human Cancer Genetics  
Medical Research Facility, Room 440  
420 West 12th Avenue  
Columbus, OH 43210  
Telephone: 614-688-4766  
FAX: 614-688-4761  
E-mail: Krahe-1@medctr.osu.edu  
Website: <http://www.cancergenetics.med.ohio-state.edu>

### BEHAVIORAL ECOLOGIST/ ORGANISMAL BIOLOGIST

One-year position at the ASSISTANT PROFESSOR level starting July 2001. We invite applications from candidates who possess the Ph.D. plus combined strengths in teaching and research with commitment to undergraduate research. Teaching responsibilities in our interdisciplinary program in the biological foundations of behavior (Biology and Psychology Departments) include upper-level elective course with laboratory in behavioral ecology, upper-level elective course with laboratory in organismal biology, and a general education course for nonmajors. The College has a tradition of strength in the sciences and a commitment to faculty and student research. Please send curriculum vitae, plans for actively engaging undergraduates through teaching and research, graduate and undergraduate transcripts, and three reference letters to: **Chair, Behavioral Ecology Search Committee, Department of Biology, Franklin and Marshall College, P.O. Box 3003, Lancaster, PA 17604-3003. Telephone: 717-291-4118; FAX: 717-399-4548.** Application deadline: April 16, 2001. *Franklin and Marshall is a highly selective, private liberal arts college with a demonstrated commitment to cultural pluralism through the hiring of women and minorities, and it encourages all individuals to apply (Equal Opportunity Employer/Affirmative Action).*

### POSTDOCTORAL POSITIONS

Available immediately to study retinoid and nuclear receptor-induced apoptosis (*Science* 289:1159, 2000; *MCB* 20:957, 2000). Strong background in molecular biology, signal transduction, or apoptosis is required. Send curriculum vitae and three letters of references to: **Dr. Xiao-kun Zhang, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. FAX: 858-646-3195; e-mail: xzhang@burnham-inst.org.** *Equal Opportunity Employer.*

## POSITIONS OPEN

### SENIOR SCIENTIST

ScienceMedia has a mission to increase science literacy by revolutionizing the way science is learned. Seeking entrepreneurial candidates with a passion for science, education, and technology to author interactive products for the higher education market. Ph.D. in biology or biochemistry required. Teaching experience and knowledge of Web and multimedia tools a plus.

ScienceMedia is led by Scientists and executives from the publishing industry. Core competency is developing interactive content that employs rigorous scientific models and cutting-edge technology.

Competitive salary, benefits, opportunity for significant equity position. Submit curriculum vitae to: **ScienceMedia, Attention: Human Resources, 5414 Oberlin, Suite 220, San Diego, CA 92121. E-mail: SMHR@sciencemedia.com; website: www.sciencemedia.com.**

**RESEARCH SCIENTIST** positions available: **RESEARCH ASSOCIATE FIVE** (cell bioenergetics and metabolism; Log Number 1125). Required qualifications: Ph.D. in biology, biochemistry, or related field. Additional qualifications desired: at least two years of postdoctoral training and experience in biological microcalorimetry, mitochondrial function, enzyme regulation, and control of metabolic flux. **POSTDOCTORAL RESEARCHER** (differential gene expression; Log Number 1126). Required qualifications: Ph.D. in biology, biochemistry, or related field. Additional qualifications desired: experience in gene expression, DNA microarray technology, functional genomics, and cell transformation. **RESEARCH ASSOCIATE THREE** (cell biology/cell culture; Log Number 1127). Required qualifications: Bachelor's degree in biology, biochemistry, or related field and two to four years of related experience or Master's degree. Additional qualifications desired: Ph.D. degree, experience in cell culture, cell transformation, and nucleic acid quantification. Salaries commensurate with qualifications and experience. Application deadline is May 1, 2001, or until candidates are selected. Mail application, curriculum vitae, and names of at least two references to: **Dr. Steven C. Hand, Department of Biological Sciences, 508 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803.** (Reference Log Numbers 1125, 1126, or 1127.) *LSU is an Equal Opportunity/Equal Access Employer.*

**POSTDOCTORAL POSITION** available immediately to study the role of protein-RNA interactions in regulating bacterial gene expression. Experience in biochemistry and molecular biology is required. Salary range is \$27,000 to \$30,000 depending on experience. Send cover letter, curriculum vitae, and the names and addresses of three references to: **Dr. Paul Babitzke, Department of Biochemistry and Molecular Biology, The Pennsylvania State University, University Park, PA 16802. Telephone: 814-865-0002; e-mail: pxb28@psu.edu.**

**POSTDOCTORAL POSITION** to study the molecular basis of B cell tolerance and autoimmune disease. Studies will utilize molecular biology, biochemistry, and small animal models to study the signal transduction mechanisms that prevent autoreactive B lymphocytes from producing autoantibodies. Ph.D. applicants possessing experience in molecular biology or immunology should send curriculum vitae containing the telephone numbers of three references to: **Dr. Barbara Vilen, CB Number 7290, University of North Carolina, Chapel Hill, NC 27599. E-mail: vilenpostdoc@med.unc.edu.**

## POSITIONS OPEN

### FACULTY POSITIONS BIOMOLECULAR SCIENCES

The University of Central Florida invites applications for tenure-track positions as **ASSISTANT PROFESSOR** or higher to conduct basic biomolecular research in an interdisciplinary center. Areas of particular interest include the following: (1) biochemistry, molecular biology, or proteomics; (2) combinatorial chemistry; and (3) bioinformatics, modeling, and computational biology/chemistry.

Applicants should have a Ph.D., significant postdoctoral experience, and excellent research accomplishments. They will be expected to establish a vigorous, independent research program with external funding and to participate in collaborative and multidisciplinary projects. Candidates for the **ASSOCIATE PROFESSOR** level or higher should already have extramural funding. Appointees will hold a joint appointment in an appropriate department and will teach in a multidisciplinary Ph.D. program in biomolecular science. Review of applications will begin immediately and continue until positions are filled.

UCF seeks to become the leading metropolitan research university in the U.S.A. It is currently the 26th largest university in the nation and is expanding rapidly in the dynamic community of Orlando. Candidates should submit curriculum vitae, a research plan including a summary of past accomplishments, and arrange for three letters of reference to: **Dr. John Goodchild, Director CD3, University of Central Florida, 12722 Research Parkway, Orlando, FL 32826-3227.**

*UCF is an Equal Opportunity Employer/Affirmative Action Employer. As an agency of the State of Florida, UCF makes all application materials, including transcripts used in final screening, available to the public upon request.*

### POSTDOCTORAL POSITION NIDCR/NIH

Position available immediately to study the mechanisms regulating the store-operated calcium channel in nonexcitable cells and to identify the molecular components of this channel (further details available on our website: <http://wwwdir.nidcr.nih.gov/dirweb/gttb/sps.htm>). Our studies examine the role of caveolar lipid raft scaffolding domains and the Trp family of ion channel proteins (*J. Biol. Chem.* 275:11934-11942, 2000) in store-operated calcium influx. A multidisciplinary approach is being used that includes biochemical, molecular, and *in vivo* gene transfer techniques as well as functional studies involving electrophysiology and microfluorimetry. Candidates must have considerable experience in various molecular biology techniques and familiarity with computer-based applications for gene and protein analyses. Knowledge of molecular biology techniques applicable to calcium signaling or ion channel structure/function and related cell biology techniques is highly desirable. Candidates must have a Ph.D. and less than five years of postdoctoral experience. Send curriculum vitae and three letters of reference to: **Indu S. Ambudkar, Ph.D., Building 10, Room 1N-113, NIH, Bethesda, MD 20892. Telephone: 301-496-5298; FAX: 301-402-1228; e-mail: indu.ambudkar@nih.gov.**

### POSTDOCTORAL POSITION to Investigate the Role of p53 Mutations in Oncogenesis Using Microarray Technology

Applications are invited for a Postdoctoral position in a laboratory involved in understanding the molecular biology of the tumor suppressor p53. Individuals with expertise in recombinant DNA technology, real time PCR, cDNA technology, and mammalian cell culture systems are encouraged to apply. Salary is negotiable. Send complete curriculum vitae and names of three references to: **Sumitra Deb, Ph.D., Professor, Massey Cancer Center and Department of Biochemistry and Molecular Biophysics, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA 23298. FAX: 804-827-1427; E-mail: SDEB@HSC.VCU.EDU.**

## Chemistry

SomaLogic, Inc. is a growing, pre-IPO biotechnology company located in beautiful Boulder, Colorado. Our teams are working with exciting proteomics technology to develop protein biochips that will allow simultaneous measurements of thousands of proteins in biological samples. This technology is likely to be of high value for research as well as clinical diagnostics and patient monitoring. We are looking for experienced and talented professionals who can work successfully in both team- and individual-contributor roles and who enjoy the multitasking required in an intense fast-paced startup environment.

### CHEMISTRY

#### Team Leader - Analytical Chemistry and Quality Control

This is an opportunity to define the scope and application of the analytical techniques used to evaluate and validate SomaLogic's products and build a team to support the high-throughput production process. Requirements include a Ph.D. in Organic or Analytical Chemistry and 8+ years of laboratory experience in the characterization of proteins and nucleic acids by modern analytical techniques; familiarity with current proteomics techniques; a strong background in mass spectrometer operation, troubleshooting, and maintenance; and familiarity with FDA's QSR requirements for product/process development. Experience interfacing analytical equipment with a LIMS system is also required. Proven leadership skills are essential. Please refer to: TLAC

#### Research Associate - Analytical Chemistry and Quality Control

B.S./M.S. degree in Chemistry, Analytical Chemistry, or Biochemistry, with a strong background in modern techniques for the characterization of proteins and nucleic acids using the most advanced technology is required. A minimum of 3 years of hands-on laboratory experience in the characterization of proteins and nucleic acids using LC/MS/MS, HPLC, CE, and other appropriate instrumentation is essential. Familiarity with high throughput sample handling automation is preferred. Please refer to: RAAC

#### Team Leader - Oligonucleotide Synthesis and Quality Control

The successful candidate will manage outsourcing the production of large numbers of nucleic acids, utilizing a thorough knowledge of both nucleic acid chemistry while developing strong business relationships with suppliers. M.S. degree or equivalent in Organic or Biochemistry and 5 years' experience in the synthesis and characterization of complex and modified nucleic acids are required. This Team Leader will be a critical contributor to the development of protein microarrays created from these nucleic acids.

A demonstrated ability to work in a team environment, interacting daily with members of other teams, including analytical, computational, and chip manufacture, as well as with a dynamic and diverse group of scientists with expertise in molecular biology, proteomics, and nucleic acid chemistry is essential. Proven leadership skills are essential. Please refer to: TLO

#### Research Associate, Array Development

B.S./M.S. in Chemistry, Biochemistry, or Chemical Engineering with 3-5 years' experience in an industrial research environment is required. Experience with modern biochemical techniques, including computer-driven instrumentation is required; experience in microarray development is preferred. Please refer to: RAD

#### Research Associates, Biochemical Assays and Molecular Biology

B.S./M.S. in Biochemistry, or Molecular Biology with 1-3 years' experience in an industrial research environment is required. Experience running biochemical assays in a variety of formats including 96 well plates is strongly preferred. Please refer to: RABA

SomaLogic, Inc. offers a dynamic work environment, competitive salaries and benefits programs, including a 401(k) and stock options. Please send your cover letter, resume, and salary requirements to: [careers@somallogic.com](mailto:careers@somallogic.com), or fax to: 303-545-2525, or mail to: 1775 38<sup>th</sup> St., Boulder, CO 80301. For more information visit our Web site at [www.somallogic.com](http://www.somallogic.com). SomaLogic, Inc. is an equal opportunity employer.



## PENNSTATE



College of  
Medicine

### VICE DEAN FOR RESEARCH

Applications are invited from creative, high energy, results-oriented individuals to fill a new position for leadership of basic and clinical science research programs at The Pennsylvania State University College of Medicine at The Milton S. Hershey Medical Center in Hershey, Pennsylvania. This represents an exciting opportunity to participate in the ongoing growth and further development of the research enterprise at a major academic health center. The Vice Dean for Research will report directly to the Dean of the College of Medicine and will work collaboratively with clinical and basic science department chairs. In addition, the Vice Dean for Research will facilitate interdisciplinary and intercampus research initiatives through the Penn State University Life Sciences Consortium and in collaboration with the Office of the Vice President for Research at University Park. The successful candidate will have academic credentials that would qualify for an appointment at the level of Professor, a successful track record as a funded researcher with experience in research administration, and the vision to promote and enhance excellence and diversity in all aspects of basic and clinical research throughout the University. The review of applications will begin immediately and continue until the position is filled. Nominations and applications (including curriculum vitae) can be submitted in confidence to: **Harry Wollman, M.D., Principal, Alexander, Wollman & Stark, Pos #: S-10491, 1601 Market St., Suite 550, Philadelphia, PA. 19103, or by email: [pkstark@aol.com](mailto:pkstark@aol.com).**

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

### Over \$1 Million Immediately Available to Elucidate the BIOLOGICAL PATHWAYS INVOLVING THE ATM PROTEIN

- Up to \$75,000 per project per year
- Rapid, 30-day peer review decision process
- Early start date possible
- Application process not too burdensome

Over US\$1 million is now available to support truly novel research projects aimed at understanding the molecular basis of ataxia-telangiectasia (A-T). A major objective of grant awards will be to unravel the functional role of the ATM protein, especially in the development and maintenance of the brain, in collaboration with other labs that have already developed reagents such as ATM knock-out mice, monoclonal antibodies and biochemical assays for ATM activity. Projects with potential for identifying downstream therapeutic targets are of particular interest.

Competitive awards will be given to researchers for one- and two-year projects to be funded up to a total direct cost of \$75,000 per year. No administrative overhead or fixed costs are supported.

Scientific excellence, originality, investigator competence and direct relevance to Ataxia-Telangiectasia are the paramount criteria in award decisions. All applications will receive quick reviews and decisions will be communicated to applicants within 30 days after proposals are received. Grant periods can begin as early as 15 days after grants are awarded.

For proposal guidelines, contact the A-T Children's Project or visit our web site.

668 South Military Trail  
Deerfield Beach, FL 33442  
Web site: [www.atcp.org](http://www.atcp.org)



Phone: (954) 481-6611  
Fax: (954) 725-1153  
Email: [grants@atcp.org](mailto:grants@atcp.org)

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** are available to investigate growth factor and cytokine signal transduction in fibroblasts and vascular cells. Our current studies are focused on the functional analysis of (1) Fnk, a serine/threonine protein kinase involved in cell cycle regulation and (2) Fn14, a new member of the TNF receptor superfamily. Recent Ph.D.s with solid training and experience in molecular and cellular biology are encouraged to apply. Please send curriculum vitae and three references to: **Dr. Jeff Winkles, Department of Vascular Biology, American Red Cross HL-009, 15601 Crabbs Branch Way, Rockville, MD 20855. FAX: 301-738-0560; e-mail: MonicaH@usa.redcross.org.** *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

**POSTDOCTORAL RESEARCH FELLOW** to work on cell signaling involving protein kinase C and small GTPases. Qualified applicants should have a strong background in molecular biology, cell biology, or biochemistry with experience in one or more of the following: cloning; expression and purification of proteins in mammalian, sf9 insect, and bacterial cells; and studies using fluorescence imaging and other techniques. Please send curriculum vitae and names of two references to: **C. D. Stubbs, Ph.D., Pathology, Cell Biology, and Anatomy, Thomas Jefferson University, Room 271, JAH, 1020 Locust Street, Philadelphia, PA 19107. E-mail: chris.stubbs@mail.tju.edu; place "postdoctoral" as the subject.** *Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION Signal Transduction/Enzymology

Postdoctoral positions are available focusing on structure/function studies of MAP kinase signal transduction pathways, using presteady-state kinetic approaches. Applicants should have a strong chemistry/enzymology background with experience in molecular biology and protein purification. Applicants should send a résumé and three references to: **Dr. Kevin Dalby; e-mail: Dalby@mail.utexas.edu; website: <http://uts.cc.utexas.edu/~dalby/research/index.html>.** *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available immediately for NIH-funded project studying the role of HHV-8/KSHV in the pathogenesis of Kaposi's sarcoma. Candidates must have a Ph.D. and/or M.D. with experience in molecular biology and virology strongly preferred. To join our group of Investigators, send or e-mail curriculum vitae, a brief description of research experience, and names of three references to: **Dr. K. E. Foreman, Cardinal Bernardin Cancer Center Room 302, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. E-mail: kforema@lumc.edu.**

*An Equal Opportunity Employer/Educator.*

**POSTDOCTORAL POSITION** in the Department of Molecular Biophysics and Biochemistry at Yale University to study mechanisms and dynamics of DNA replication. Candidates should have a Ph.D. with a background in molecular biology and protein chemistry and have knowledge and a strong interest in kinetics and enzyme mechanisms. Send curriculum vitae and names of references to: **William Konigsberg, Department MB and B, Yale University School of Medicine, 333 Cedar Street, Box 208024, New Haven, CT 06520. E-mail: william.konigsberg@yale.edu.**

Two **POSTDOCTORAL POSITIONS** available immediately for NIH-funded studies. (1) Effects of weak estrogens from plants and industry and (2) regulation of human-specific placental genes in normal and preterm labor. Deadline for applications is May 15, 2001. Send curriculum vitae; statement of research experience and goals; and names, addresses, and telephone numbers of three references to: **Dr. Stuart Adler, Department of Physiology, Southern Illinois University, Carbondale, IL 62901-6523. Southern Illinois University is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

Trudeau Institute has positions available in the **POSTDOCTORAL TRAINING PROGRAM** in immunology of infectious disease for a range of projects investigating immune response to infections and tumors. Applicants should possess a Ph.D., be highly motivated, and capable of working independently. Candidates experienced in molecular biology, cell biology, and cellular immunology are encouraged to apply. Salaries begin at \$31,000 and include excellent fringe benefits. There is access to on-site child care and affordable, convenient Institute housing.

Trudeau Institute is a well-financed, not-for-profit biomedical research institute with an extensive invited seminar program; weekly institutewide, research-in-progress discussions; and biannual international workshops. Sixteen Principal Investigators work in a highly collaborative environment focused around determining the mechanisms of immunity to infectious diseases. Extensive support services such as histology, flow cytometry (FACS Vantage), molecular biology (including Class I and II tetramer/dimer production), and in-house animal production are available. Located in the Adirondack Mountains in northern New York State, the Institute is situated on a scenic hillside overlooking mountain vistas and Lower Saranac Lake. The village of Saranac Lake is a low-crime community only seven miles from Lake Placid, with many outdoor activities including skiing, boating, and hiking. Albany, New York, Burlington, Vermont, and Montreal, Quebec, are approximately two hours by car. Visit our website: [www.trudeauinstitute.org](http://www.trudeauinstitute.org).

Faculty research interests: **J. Drake, Ph.D.:** cell biology and molecular mechanisms of B cell receptor-mediated antigen processing and presentation; **R. Dutton, Ph.D.:** functions of CD8 T cell subsets, T cell memory, homeostasis; **A. Harmsen, Ph.D.:** immunopathogenesis, infectious diseases of the lung; **L. Johnson, Ph.D.:** innate and acquired host resistance to *Toxoplasma gondii* and other microbial pathogens; **R. North, Ph.D.:** T cell-mediated immunity, intracellular bacterial pathogens including *M. tuberculosis*; **S. Swain, Ph.D.:** T cell subsets, T and B cell memory, regulation of T cell differentiation, homeostasis, life span and tolerance; and **D. Woodland, Ph.D.:** T cell-mediated immunity to bacterial and viral infections.

Applicants should submit a copy of their curriculum vitae, a brief statement of their research interests, and names of three references. Please address all correspondence to:

**Amy Richardson  
Human Resource Manager  
Trudeau Institute  
100 Algonquin Avenue  
P.O. Box 59  
Saranac Lake, NY 12983**

**Telephone: 518-891-3080; FAX 518-891-5126**

The Department of Biochemistry and Molecular Biology at Mississippi State University invites applications for a 12-month tenure-track teaching and research position at the **ASSISTANT/ASSOCIATE PROFESSOR** rank to be filled by July 1, 2001. This position will include funding for a Postdoctoral Associate for two years and additional start-up funds. Responsibilities include participation in our undergraduate and graduate teaching programs and establishment of an active research program capable of attracting external funding. We are particularly interested in a Plant Molecular Biologist who can play a role in a newly established Life Sciences and Biotechnology Institute. Requirements include a Ph.D. in biochemistry or molecular biology with postdoctoral experience. Applicants must have demonstrated involvement in quality research as evidenced by publications in peer-reviewed journals. Applicants at the Associate Professor level will be expected to have demonstrated success in acquiring external funding. Send curriculum vitae, summary of research interests, and names of three references to: **Dr. John Boyle, Head, Department of Biochemistry and Molecular Biology, Box 9650, Mississippi State, MS 39762.** Applications accepted through February 15, 2001, or until position is filled. *MSU is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** are available to study the molecular mechanisms that drive T cell selection and lineage commitment. Projects are designed to study (1) how nuclear transport mediates SAF transcription factor function during T cell development; (2) the roles of HES-1 and c-Myb in thymopoiesis; and (3) the developmental control of CD4 gene expression (**Kim and Siu, JEM 190:281, 1999; Kim et al., submitted 2001; Allen et al., Genes Dev. 13:1073, 1999; Allen et al., MCB in press; Duncan et al., Immunity 4:301, 1996**).

Candidates must be self-motivated and have a Ph.D. or M.D. degree; experience in the fields of molecular biology, cell biology, and mouse genetics is preferred. Please send curriculum vitae, a brief statement of research experience, and the names of three references to: **Gerald Siu, Ph.D., M.D., College of Physicians and Surgeons, Columbia University, 701 West 168th Street, HHSC 639, New York, NY 10032.** *We are an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION** is available to study the mechanisms of mRNA and protein degradation during signal transduction and cell growth and differentiation. Self-motivated applicants with experience in molecular biology and biochemistry of mammalian genetics are encouraged to apply. An excellent work atmosphere at the University of Pennsylvania's campus, which is located conveniently close to housing and cultural and historical attractions of Philadelphia, offers an exceptionally rich environment for biomedical research. Interested applicants should send curriculum vitae and three references to: **Dr. Sergey Fuchs, Department of Animal Biology, University of Pennsylvania, Philadelphia, PA 19104. E-mail: sfuks@vet.upenn.edu.** *University Of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITIONS DNA Polymerases Involved in Mutagenesis by Chemical Carcinogens

Two Postdoctoral positions are available to study what lesion-bypass DNA polymerases are involved in different mutagenic pathways (e.g., G→T versus G→A mutations) induced by the major adduct of a potent, ubiquitous environmental carcinogen (benzo[a]pyrene). This work interfaces with our ongoing studies on the role of adduct structure/conformation in these mutations. Molecular biological, genetic, and biochemical techniques are used. Send curriculum vitae and reference letters to: **Edward L. Loechler, Department of Biology, Boston University, 5 Cummings Street, Boston, MA 02215.** *Boston University is an Equal Opportunity Educator and Employer.*

### POSTDOCTORAL FELLOWSHIP HEMATOLOGY Children's Hospital of Philadelphia

The Children's Hospital of Philadelphia is seeking a Postdoctoral Fellow to perform research on the biology of hematopoiesis and platelet function. Responsible for the design and execution of experiments designed to identify genes during blood cell development. Our laboratory uses established cell lines, embryonic stem cells, and genetically altered mice as model systems to study hematopoiesis and platelet biology. Prior experience in cellular hematopoiesis, tissue culture, molecular biology techniques, and animals (especially in mice) is desirable. Please apply online at website: <http://careers.chop.edu>. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** for cancer chemotherapy. Must be Ph.D. or M.D. with strong background in medicine, biochemistry, cell and molecular biology, and physiology. Must have at least five years of experience in (1) cell function and apoptosis, cell-cell interaction; (2) confocal microscopy; (3) DNA-protein complexes; (4) flow cytometry; (5) DNA microarray; and (6) vascular biology. Submit curriculum vitae and three references to: **Dr. Mark G. Mainwaring, P.O. Box 100277, University of Florida Department of Medicine, Gainesville, FL 32610.**

## CLINICAL RESEARCH

## CALL FOR NOMINATIONS

The Doris Duke Charitable Foundation  
is soliciting nominations for the  
Distinguished Clinical Scientist  
Award for Excellence in  
"Bench To Bedside" Research.



Awards of \$1.5 million will be made to up to six outstanding physician-scientists conducting "bench to bedside" (translational) clinical research in the following disease areas – cancer, cardiovascular diseases, AIDS and sickle cell anemia and other blood disorders.

Academic medical centers and other non-profit research institutions in the U.S. are invited to nominate one candidate in each of the four different disease areas. Nominations and the accompanying brief preproposals must be received by May 31, 2001.

Nominees must have received a M.D. or M.D./PhD from an accredited institution, and have a full-time university faculty appointment at the level of associate professor or equivalent by May 31, 2001. Physician-scientists who have been appointed to the level of professor or the equivalent after December 15, 1996 are also eligible. Nominees must spend at least 75% of their time conducting clinical research.

By July 5, 2001, following a review of the preproposals, selected nominees will be invited to submit full proposals by August 24, 2001.

The Doris Duke Distinguished Clinical Scientist Award announcement, containing a description of the required preproposal package and the submission instructions, can be downloaded from our website at <http://ddcf.aibs.org/dcsa>. Please e-mail questions to [ddcf@aibs.org](mailto:ddcf@aibs.org). No phone calls please.

FOCUS ON  
CAREERS:

## POSTDOCTORAL Opportunities I

Issue Date ..... 27 April 2001  
Reserve space by ..... 10 April 2001

This special ad supplement includes advice from recruiters in both academia and government on the viability of PhD candidates pursuing postdoctoral fellowships.

For those that do, is it better to concentrate on specific disciplines or broaden their experience with a related subdiscipline?

**Don't forget** to place your ad in our follow-up supplement in *Science's* 7 September issue. By running your ad in both issues you'll receive a **25% discount** off the second insertion.

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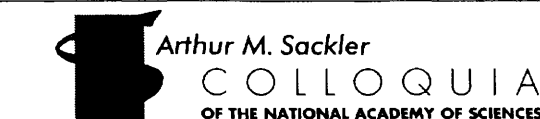
## CALL FOR PROPOSALS

### NIH INTER-INSTITUTE PROGRAM FOR THE DEVELOPMENT OF AIDS-RELATED THERAPEUTICS

The National Institute of Allergy and Infectious Diseases (NIAID) and National Cancer Institute (NCI) invite the submission of proposals to a drug development program initiative designed to help AIDS research investigators facilitate the preclinical development of: 1) therapies for the treatment of HIV disease, AIDS-associated malignancies, opportunistic infections and tuberculosis associated with AIDS, and 2) microbicide-based prevention strategies for HIV. The program does not fund grants. Instead, applications to the program are requests to NIAID and NCI to use their drug development contract resources to conduct specific tasks the applicants themselves are unable to carry out in their efforts to translate basic research findings to applied or clinical practice. Examples of tasks that may be requested include High Throughput Screen (HTS) assay development, evaluation in animal efficacy models, Good Manufacturing Practice (GMP) scale-up synthesis of small molecules and biologics, clinical dosage formulation and manufacturing, and Good Laboratory Practice (GLP) toxicology. Program proposals are solicited twice a year and reviewed in a competitive manner.

The next deadline for receipt of application is **June 1, 2001**, prior to that date (no later than May 1) a Letter of Interest must be submitted to the Inter-Institute Program Coordinator. Further information about this program, including detailed instructions for preparing proposals and the Letter of Interest, can be found at the program-web site at <http://dtp.nci.nih.gov/docs/dart.html>. Inquiries can be made to the Inter-Institute Program Coordinator by telephone at 301-496-8720 or by e-mail at [ip@dtpax2.ncifcrf.gov](mailto:ip@dtpax2.ncifcrf.gov).

## SYMPOSIA



### NANOSCIENCE

**UNDERLYING PHYSICAL CONCEPTS AND PHENOMENA**  
May 18-20, 2001

National Academy of Sciences, Washington, DC

Organized by John T. Yates, Jr., Phaedon Avouris and George Whitesides

- I. Proximal Probes:** Roland Wiesendanger, Karl Rieder, Wilson Ho, Charles Lieber, Herman E. Gaub
- II. Single Molecule Spectroscopy on Surfaces:** Sunny Xie, Hans Joachim Freund
- III. Quantum Dots, Clusters and Films:** Leo Kouwenhoven, Paul Alivisatos, Christopher Murray, Louis Brus, Uzi Landman, Mostafa A. El-Sayed, Stephen Chou
- IV. Nanowires, Molecular Wires and Devices:** Johannes Voit, Horst Stormer, Hideaki Takayanagi, Phaedon Avouris, Peter Eklund, Mark Reed, James Heath, Mark Ratner, Norton Lang
- V. Nanostructure Synthesis and Self-Assembly:** Richard Smalley, Hongjie Dai, George Whitesides, Nadrian Seeman, Angela Belcher

**Registration Fee** (Non-refundable/transferable), includes meals:  
General Participant \$175

For additional information e-mail [colloquia@nas.edu](mailto:colloquia@nas.edu)

Website: [www.nas.edu/nas/colloquia](http://www.nas.edu/nas/colloquia)

Space for this meeting is limited, so please register early.

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE POSITION:** muscle physiology/biophysics/biomechanics at University of Pennsylvania. Positions for highly motivated and organized individuals; start date flexible. We study design of muscle for different motor functions (see *PNAS* 93:8095-8100, 1996; *PNAS* 96:5826-5831, 1999; *J. Physiol.* 526:279-298, 2000). In addition, we are constructing a musculoskeletal model of jumping frogs. We are interested in individuals with expertise in the following areas: (1) muscle mechanics, skinned fibers; (2)  $Ca^{2+}$  transients, SR-function, cloning, and expression of muscle proteins, and functional morphology and electromyography. Penn houses the Pennsylvania Muscle Institute, with many individuals working on cellular/biophysical aspects of muscle contraction. Please send curriculum vitae to: **Dr. Larry Rome, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104 U.S.A. FAX: 215-898-8780; e-mail: lrome@mail.sas.upenn.edu.**

**POSTDOCTORAL POSITIONS** are available immediately for Scientists with M.D. and/or Ph.D. with a background in molecular biology to examine the role of two proteins, a novel RapGAP and PKN, in epithelial cell immortalization. These studies are based on our recent publications (Gao et al., *Mol. Cell. Biol.* 19:733-744, 1999; Gao et al., *J. Biol. Chem.* 275:14824-14830, 2000) that define novel pathways in epithelial cell immortalization. Applicants with substantial prior background in molecular biology will be preferred. Salary (\$28,000 to \$35,000) will be negotiable depending on qualifications of the candidate. Please send curriculum vitae and three references to: **Dr. Vimla Band, Director and Professor, Radiation and Cancer Biology, Radiation Oncology and Biochemistry, NEMC, 750 Washington Street Number 824, Boston, MA 02111. Telephone: 617-636-4776; FAX: 617-636-6205; e-mail: VBAND@lifespan.org.**

**POSTDOCTORAL POSITION** is available immediately to study neurotransmitter receptor pharmacology. The successful candidate will be working as part of an interdisciplinary team carrying out *in vitro* and *in vivo* experiments for the design and discovery of new drugs acting on G protein-coupled receptors and ion channels.

Qualified candidate must hold a Doctoral degree in pharmacology, neuroscience, or related field. Special consideration will be given to candidate with expertise in cell culture, receptor binding, second messenger assays, and behavioral studies in small rodents.

Send curriculum vitae and names and addresses of three references to: **Dr. Jelveh Lamah, Molecular Research Institute, 2495 Old Middlefield Way, Mountain View, CA 94043. FAX: 650-210-0318; e-mail: jlameh@purisima.molres.org. Visit our website: www.molres.org. The Molecular Research Institute is an Equal Opportunity Employer.**

**POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS** at Georgia State University starting between May and November 2001. Experience in either molecular biology or neurophysiology required. Potential projects include gene chip analysis of the locomotor network in neonatal rat spinal cord or a combined molecular/electrophysiological approach toward understanding how extracellular signals regulate gene expression in a dynamic motor circuit. For more details, see website: <http://biology.gsu.edu/depart/faculty/baro.htm>. Send curriculum vitae and the e-mail addresses of three references to e-mail: **djbaro@neurobio.upr.clu.edu.**

**POSTDOCTORAL FELLOWSHIP:** training and research in primate coronary artery pathophysiology via digital live cell photometry and cardiac catheterization and intracoronary Doppler. Stipend is \$30,000 to \$44,412 plus benefits for two years depending on experience. Submit cover letter and résumé by mail or FAX with contact information including e-mail addresses, telephone numbers, and FAX numbers and date available to: **Human Resources Manager, Re: Postdoctoral Fellowship, Dimera LLC, 2525 N.W. Lovejoy, Suite 311, Portland, OR 97210. FAX: 503-295-2757.**

## POSITIONS OPEN

### NIH 2001 = [OPPORTUNITY]<sup>SM</sup>

Train at the bench, the bedside, or both.

The NIH offers **POSTDOCTORAL and CLINICAL FELLOWSHIPS** as well as tenure-track positions.

For details, visit our website:

[www.training.nih.gov](http://www.training.nih.gov)

*NIH is dedicated to building a diverse community in its training and employment programs.*

### FACULTY POSITION Basic Research in Infectious Diseases

The Division of Infectious Diseases of the Children's Hospital, Boston, announces a search for a faculty member to join a vigorous and expanding division. Candidates may be new or established **INVESTIGATORS** (M.D. or Ph.D.) with a research interest broadly related to microbial pathogenesis or host response. Investigators with expertise in the cell biology of infection are particularly encouraged to apply. Areas of research within the Division include molecular pathogenesis of viral, bacterial, mycobacterial, and fungal infections as well as clinical research on HIV and medical decision making. There are ample opportunities for collaboration with Investigators within the Division and in the Harvard medical community. The successful applicant will hold a faculty appointment at Harvard Medical School. Please respond with a description of research and goals, curriculum vitae, and contact information for three references to: **Michael Wessels, M.D., Chief, Division of Infectious Diseases, Children's Hospital, Enders 609, 300 Longwood Avenue, Boston, MA 02115. E-mail: michael.wessels@tch.harvard.edu. Children's Hospital and Harvard Medical School are Equal Opportunity Employers; women and minority candidates are encouraged to apply.**

### POSTDOCTORAL POSITION in Developmental Neuroscience

A position is available to study the genetic basis of neuronal diversity and patterning in the vertebrate nervous system. We focus on the retina and the sensory ear epithelia in zebrafish. A combination of forward and reverse genetic approaches is used to identify factors involved in the specification, differentiation, and patterning of neurons. Among forward genetic strategies, we use morphological, immunohistochemical, and behavioral criteria to screen for mutant animals. This is followed by positional cloning (Malicki, *J. Tins* 23:531). Recently, this approach has greatly benefited from the zebrafish genome project. In reverse genetic analysis, we rely on a large-scale *in situ* screening of embryonic expression patterns. The function of genes identified in these experiments is subsequently studied using several approaches including recent variants of antisense technology. Highly motivated individuals with a recent Ph.D. are invited to apply. Please send curriculum vitae, reprints, and names of three references to: **Dr. Jarema Malicki, Harvard Medical School/MEEI R513, 243 Charles Street, Boston, MA 02114. Website: <http://www.howelaboratory.harvard.edu/malicki.htm>. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** to investigate the mechanisms of action of insulin and growth factors (see website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/lawrence.html>). The laboratory uses molecular and biochemical methods to investigate signal transduction pathways involved in the control of glycogen synthesis and mRNA translation. Experience in these areas is desirable but not essential. Both foreign and domestic applicants at the Ph.D. level will be considered. Salary will depend on qualifications. To apply, send résumé to: **Dr. John C. Lawrence, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: jcl3p@virginia.edu. Application deadline: open until filled. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION:** 12 month; full-time. Available immediately. One year, renewable thereafter. Project: investigating viral etiology of obesity. Mechanisms responsible for adipogenic and hypolipidemic effects of adenoviruses; also basic and clinical research in other areas in obesity. Qualifications: Doctoral degree in biochemistry/molecular biology/virology/nutrition or related area. Interest in obesity research. Experience preferred: viral assays, tissue culture, PCR, animal handling. Send letter, curriculum vitae, and names of three references to:

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Chair in Obesity Research  
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### TWO POSTDOCTORAL POSITIONS AVAILABLE NATIONAL CANCER INSTITUTE Chemistry of Carcinogenesis Laboratory Carcinogen-Modified Nucleic Acid Chemistry Section

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### POSTDOCTORAL POSITIONS NEUROENDOCRINOLOGY

Two NIH-funded Postdoctoral positions are available for recent Ph.D. awardees to study postreceptor transduction pathways involved in hypothalamic control of anterior pituitary function. These positions will use patch clamp and immunocytochemical/*in situ* hybridization approaches to study effects of anterior pituitary hormones and recently described peptides on hypothalamic neuronal activity (See *Endocrinology* 138: 3141, 1997; *ibid.* 139:5164, 1998; *ibid.* 141:366, 2000; *Brain Research* 802:141, 1998). A molecular biological background is desirable for each position. Both positions will be for a minimum of two years and require citizenship or permanent residency status. Please send curriculum vitae, a brief statement describing what role you would like to assume in the project(s), and names of three references to: **Dr. Marc E. Freeman, Department of Biological Science, Florida State University, Tallahassee, FL 32306-4340. E-mail: [freeman@neuro.fsu.edu](mailto:freeman@neuro.fsu.edu).**

### POSTDOCTORAL POSITIONS University of Pennsylvania School of Medicine

Nuclear hormone receptor mechanisms. One project on transcriptional repression (*Nature* 402:93, 1999; *Genes Dev.* 14:45, 2000; *Genes Dev.* 14:1048, 2000). One project on PPAR $\gamma$  and resistin (see *Nature* 396:377-380, 1998; *PNAS* 98:502, 2001; *Nature* 409:307, 2001). Send curriculum vitae and three references to: **Dr. Mitch Lazar, University of Pennsylvania, 611 CRB, 415 Curie Boulevard, Philadelphia, PA 19104. E-mail: [lazar@mail.med.upenn.edu](mailto:lazar@mail.med.upenn.edu). Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS THE MOLECULAR CARDIOLOGY PROGRAM

University of Pennsylvania

Postdoctoral positions are available immediately to study: (i) transcriptional and signaling pathways that control differentiation of vascular smooth muscle cells, (ii) the role of smooth muscle cells in atherosclerosis and plaque rupture, and (iii) the molecular mechanisms that control cardiac myocyte differentiation and regeneration. Candidates should have a Ph.D. or M.D. and prior experience in molecular and cellular biology. Send curriculum vitae including the names of three references to: **Dr. Michael S. Parmacek, Division of Cardiovascular Medicine, University of Pennsylvania, 9123 Founders Pavilion, 3400 Spruce Street, Philadelphia, PA 19104-4283; FAX: 215-349-8017.** *Equal Opportunity Employer strongly encouraging women and minority applicants.*

**POSTDOCTORAL RESEARCH ASSOCIATE** sought to work on research project using comparative genomics techniques to understand the molecular basis of morphological diversity among plants. Will work closely with Principal Investigators at the Garden, New York University, and Cold Spring Harbor Laboratory who have formed a plant genomics consortium. Must have Ph.D. in biology and experience with standard molecular biology techniques including nucleic acid extraction, PCR, cloning, and recombinant DNA protocols. Plant molecular biology experience preferred. Excellent benefits including four weeks of vacation. Send curriculum vitae, cover letter, and salary requirements along with three letters of reference to: **Recruiter, PGC, The New York Botanical Garden, 200th Street and Kazimiroff Boulevard, Bronx, New York 10458-5126.** E-mail: [hr@nybg.org](mailto:hr@nybg.org). *Affirmative Action/Equal Opportunity Employer/Minorities/Disabled/Veterans/Females.*

### POSTDOCTORAL POSITIONS VISUAL NEUROSCIENCE University of Oklahoma Department of Cell Biology

Two Postdoctoral positions are available to investigate mechanisms of visual loss in transgenic models of retinal diseases and to determine efficacy of ribozyme gene therapy. Candidates please submit curriculum vitae and names of three references to: **Dr. Muna Naash, BMSB 781, 940 Stanton L. Young Boulevard, Oklahoma City, OK 73104.** E-mail: [muna-naash@ouhsc.edu](mailto:muna-naash@ouhsc.edu). Details at website: [http://w3.ouhsc.edu/cell\\_biology/faculty/pgs/naash.htm](http://w3.ouhsc.edu/cell_biology/faculty/pgs/naash.htm). *Equal Opportunity Employer.*

NIH-funded **POSTDOCTORAL POSITIONS** to study signaling, transcription, apoptosis, and chemoprevention (*JBC* 274:27545, 1999; *JBC* 275:2322; *JBC* 275:9612; *JBC* 275:39907, 2000; *Cancer Res.* 60:2384; *Cancer Res.* 60:5995, 2000). Applicants must have expertise in molecular/cell biology and protein biochemistry. Send résumé to: **Ah-Ng Tony Kong, Professor, Department of Pharmacaceutics, College of Pharmacy and Environmental and Occupational Health Sciences Institute, Rutgers University, 160 Frelinghuysen Road, Piscataway, NJ 08854.** E-mail: [KongT@cop.rutgers.edu](mailto:KongT@cop.rutgers.edu).

## ANNOUNCEMENTS

### BIOINFORMATICS TOOLS FOR COMPARATIVE GENOMICS LBNL/NHLBI: June 11-15, 2001

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## COURSES & TRAINING

### PLANT BIOCHEMISTRY 2001

The DOE/NSF-supported Plant Biochemistry summer course will be conducted July 8-21, 2001, at Washington State University in Pullman. The course will teach principles and recent advances in a wide range of topics including hormones, signaling mechanisms, unique plant products, and defense. The course is intended for graduate students, Postdoctorals, faculty, and Industrial Scientists and will include instruction by approximately 40 internationally recognized Plant Scientists. Funds have been allocated to partially offset travel expenses for up to 65 participants. For further information and registration forms, please contact: **Ms. Karen Maertens, Institute of Biological Chemistry, 285 Clark Hall, P.O. Box 646340, Washington State University, Pullman, WA 99164-6340.** Telephone: 509-335-5496; FAX: 509-335-7643; e-mail: [maertens@wsu.edu](mailto:maertens@wsu.edu). Visit our website: [ibc@wsu.edu](http://ibc@wsu.edu) where you will find a link to the summer course. Registration deadline is April 30, 2001.

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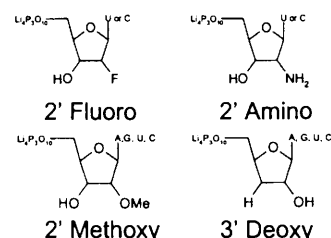
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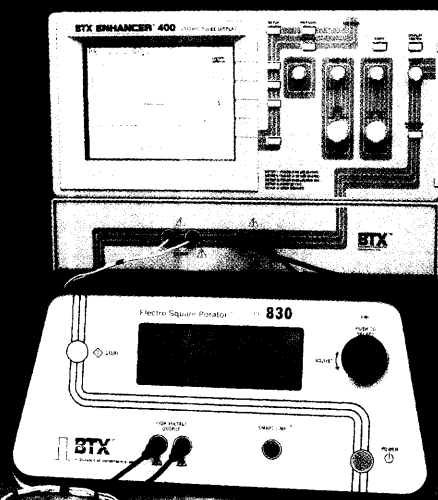
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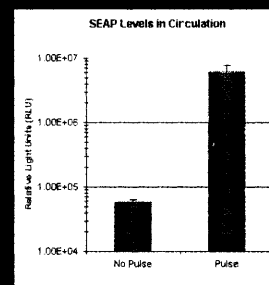


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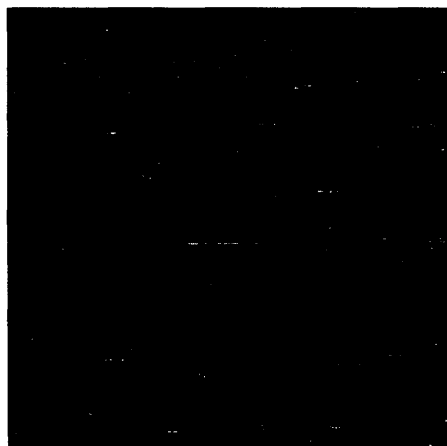
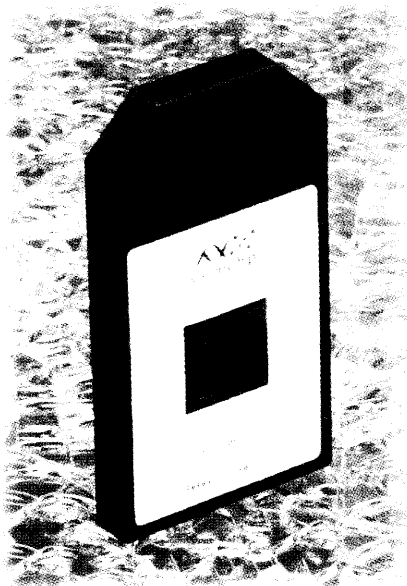
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