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PHASE-1
MOLECULAR TOXICOLOGY, INC.

NEW PRODUCTS

YEAST AND BACTERIAL PROTEIN EXTRACTION

Yeast-PE LB provides a simple and versatile method of extracting protein from yeast. Bacteria-PE LB provides a similar method for extracting protein from bacteria and isolation of inclusion bodies. Both kits eliminate the need for laborious mechanical lysis of bacterial cells and are proprietary improvements on the lysozyme-based lysis method. Their buffer systems are based on a proprietary combination of Tris-HEPES-Bicine buffering agents, a mild nonionic detergent, and a combination of various salts and agents to enhance extraction of protein and maintain stability of biological activities of the proteins. Depending on the application, additional agents such as chelating agents, reducing agents, and protease inhibitors can be added to the buffer system. The buffer system is compatible with most

Genotech

For more information call 314-645-2050 or **circle 148** on the Reader Service Card

downstream applications, including chromatography, gel electrophoresis, and protein folding procedures.

FLUORESCENT DETECTION OF MICROARRAYS

FAST Slides for microarray screening using fluorescent detection are coated with a very thin layer of proprietary microporous polymer that binds DNA in a noncovalent but irreversible manner. The slides are compatible with a wide variety of glass slide arraying devices and provide a surface for consistent and reproducible spotting. Fast Slides can be used with established hybridization protocols and are compatible with all detection methods, especially fluorescent detection with laser-based imaging systems. The components and properties of the polymer combined with a very thin matrix caliper result in very little light scatter.

Schleicher & Schuell

For more information call 800-245-4024 or **circle 149** on the Reader Service Card

AUTOMATED BIOCHIP IMAGER

The GeneTAC 2000 BioChip Analyzer makes use of a powerful detector to capture images with a true 16-bit dynamic range. The sample carousel automates imaging and analysis of up to 24 fluorescently labeled biochips at one time. The quantum efficiency of the detector is 60 to 70%, which leads to greater sensitivity and faster image capture. The excitation wavelength is determined by an ingenious filter system that allows for the detection of up to four fluorescent labels.

Genomic Solutions

For more information call 734-975-4800 or **circle 150** on the Reader Service Card

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

DNA samples

DNA samples from a

global collection network

We can meet your sample needs from inventory or by exercising our Global Collection Network on your behalf. We are adding samples, disease states, and collection sites on a regular basis.

GenomicsCollaborative

has a growing collection of DNA and serum matched to phenotypic data from patients with high prevalence diseases. These samples are available to support your research.

Some examples of samples we currently have, and are actively collecting, in the following disease states are:

- Cardiovascular disease (hyperlipidemia, hypertension, AMI stroke)
- Cancers (Breast, Ovarian, Colon, Prostate, Leukemia, Lymphoma)
- Diabetes
- Asthma
- Renal failure

All material is:

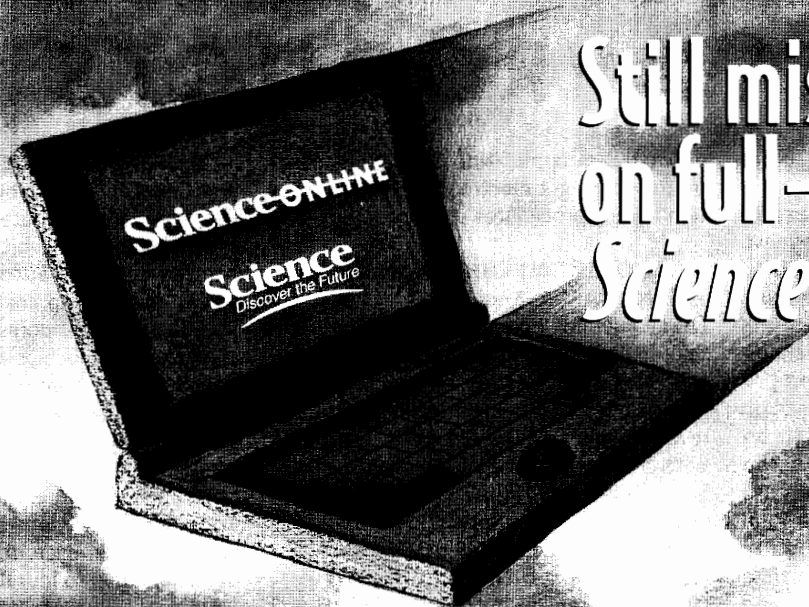
- Collected under IRB approved protocols and compliant with GCP
- Processed and stored under GCP conditions

For information regarding our current inventory of samples and disease states please contact us.

GenomicsCollaborative

1-877-GENOMIX, extension 248 (877-436-6649)
email: getsamples@DNArepository.com
www.DNArepository.com

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POSITIONS OPEN

FACULTY POSITIONS CELLULAR/MOLECULAR BIOLOGY NEUROSCIENCE

The Department of Anatomy at the University of Arkansas for Medical Sciences is inviting applications for tenure-track faculty positions at the rank of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. The successful candidates will be expected to establish and maintain an externally funded research program and contribute to the graduate and medical training programs of the Department. Appropriate postdoctoral experience, evidence of extramural funding potential, and a strong publication record will be important considerations for the positions. Individuals with research interests that complement and broaden the strengths of the Department in cellular neuroscience, neuroendocrinology, spinal cord injury, locomotion and neurodegenerative disorders (in particular Alzheimer's disease), and cellular-molecular biologists to enhance existing collaborations with investigators in the Arkansas Cancer Research Center, The Donald W. Reynolds Center on Aging, The Arkansas Children's Hospital, and the Jones Eye Institute are encouraged to apply. The University of Arkansas for Medical Sciences is a rapidly growing, major medical center with over 60 million dollars in annual extramural research funding.

Applicants should submit curriculum vitae, statement of research interests, and names of three references to: **John D. Houle, Ph.D., Chair, Faculty Search Committee, Department of Anatomy, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205**. Review of applications will begin immediately and will continue until the positions are filled (**website: <http://anatomy.uams.edu>**).

The University of Arkansas for Medical Sciences is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITIONS IN MICROBIAL PATHOGENESIS

The Center for Microbial Pathogenesis at the University of Connecticut Health Center is seeking individuals with an outstanding background in microbial pathogenesis for positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. We are seeking individuals with M.D., M.D./Ph.D., or Ph.D. degrees who are interested in adopting innovative, interdisciplinary approaches to problems within their respective fields. Faculty will be expected to establish independent research programs that will attract extramural funding and to actively contribute to a rich scientific environment. A willingness to interact with clinical investigators is also highly desirable. Although the emphasis of the search will be on vector-borne and sexually transmitted diseases, applications from individuals working in other areas of microbial pathogenesis will be carefully considered. Center faculty will enjoy superb resources including generous start-up funds and space in a newly constructed state-of-the-art research building. There also are state-of-the-art core facilities for nucleic acid sequencing; flow cytometry; confocal, fluorescence, and electron microscopy; and mouse transgenics. Candidates may apply by submitting two copies of complete curriculum vitae, names of three references, and a brief statement of research interests/goals to: **Dr. Justin Radolf, Director, Center for Microbial Pathogenesis, The University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3710**.

ASSISTANT PROFESSOR POSITIONS Chemistry/Cell Biology/Biological Sciences

The College of Health Sciences, Roanoke, Virginia, seeks applicants to fill three anticipated positions in the Biomedical Science Department. Successful candidates should have Ph.D. or equivalent and must have strong interest to teach/mentor students in the health sciences. Salary is competitive. Submit letter of application with teaching interest and curriculum vitae to: **Human Resources, College of Health Sciences, 920 South Jefferson Street, Roanoke, VA 24031-3186**. E-mail: alice@chs.edu. *Equal Employment Opportunity/Affirmative Action.*

POSITIONS OPEN

ASSOCIATE/ASSISTANT PROFESSOR WILMER OPHTHALMOLOGICAL INSTITUTE Laboratory of Corneal Immunology and Infectious Disease

The Wilmer Ophthalmological Institute of the Johns Hopkins University School of Medicine seeks a highly qualified candidate to fill the position of a research scientist at the level of Associate/Assistant Professor in the Laboratory of Corneal Immunology and Infectious Disease. Candidates should have a Ph.D. or equivalent with an outstanding research record. The successful candidate will be expected to help develop an independent, extramurally funded research program. The focus of the research will be on the molecular and cellular pathways involved in various infections and immunological diseases of the anterior segment of the eye. Applicants are invited to submit curriculum vitae, representative reprints, names of at least three references, and a statement of career goals to:

Terrence P. O'Brien, M.D.
Maumenee 313
Wilmer Ophthalmological Institute
Johns Hopkins Hospital
600 North Wolfe Street
Baltimore, MD 21287
E-mail: jgotts@jhmi.edu

Applications should be received by September 1, 2000. The search will continue until the position is filled. *Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.*

SOIL SCIENCE

The National Research Initiative Competitive Grants Program of the U.S. Department of Agriculture seeks a qualified scientist to serve as **PROGRAM DIRECTOR** for grants administration in the area of soil science, water science, rhizosphere biology or wetland, riparian, forest, or agroecology. Candidates must have an advanced degree with major study in one of the areas listed above or a closely related field. It is preferable that the candidate have a Ph.D. or equivalent specialized experience. Familiarity with plant molecular biology and plant genetics is required for this position. This is a competitive vacancy open to all United States citizens. Closing date is August 14, 2000. Applicants will be evaluated against quality ranking factors which are detailed in the vacancy announcement. For information on the position, contact: **Mr. Jeffery Conrad, Acting Division Director, National Research Initiative Competitive Grants Program, CSREES/USDA, STOP 2241, 1400 Independence Avenue, S.W., Washington, DC 20250-2241**. Telephone: 202-401-6188; e-mail: jconrad@reeusda.gov. For information on application procedures/forms, contact: **Human Resources Division; Telephone: 202-720-6130**. The vacancy announcement can also be obtained from the Human Resources Division or via Internet **website: <http://www.reeusda.gov/hrd/vacancy.htm>**. *USDA is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION IMMUNOBIOLOGY OF ASTHMA STANFORD UNIVERSITY

A position is available to investigate the role of respiratory viral infection on the development of allergen-induced asthma. The project uses a well-characterized mouse model of allergic pulmonary disease to define how viral-induced alterations in the lung microenvironment, particularly in the expression of costimulatory molecules and chemokines, influence allergen-specific immunity and pulmonary physiology. Strong experience in cellular immunology and/or pulmonary physiology is highly desirable. *This position is limited to permanent U.S. residents or citizens.* If interested, please forward curriculum vitae, summary of research experience, and three references to: **Dr. David Lewis, CCSR Building, Room 2115B, 300 Pasteur Drive, Stanford, CA 94305-5208**. E-mail: dbLewis@leland.stanford.edu. *Stanford University is an Equal Opportunity Employer.*

dreams made real.

Agilent Laboratories, Agilent Technologies' central research laboratories in Palo Alto, CA. is seeking talented computational biologists, biochemists and cell biologists to research, develop and apply genomic and proteomic analysis systems. Building on our successes in DNA microarray and microfluidics technologies (for details see www.chem.agilent.com), we are applying prototype systems in the context of leading edge biomedical research while exploring and creating innovative methods for the future. Detailed descriptions for specific requisition numbers can be viewed at www.jobs.agilent.com.

The following positions require a Ph.D. in a relevant field:

Computational Biologists

Invent and develop tools for extracting biologically and clinically meaningful information from the data generated by multiplex molecular measurement tools. Experience in one or more of the following areas is desired: statistics; algorithms for quantitative integration of molecular phenotypic and clinical data; quantitative analysis of biological pathways using data from multiple molecular scale measurements. Send resumes to steve_laderman@agilent.com. **Req. 684299, 684699, 684700.**

Postdoctoral Fellow

Work with internal and external collaborators to employ Agilent's DNA microarray technology for gene expression profiling to pursue leading-edge biomedical research. Experience and interest in cardiovascular disease, cancer, and/or infectious disease is desirable. Send resumes to laurakay_bruhn@agilent.com. **Req. 685404.**

The following positions require a Ph.D. in a relevant field plus 2 years postdoctoral experience:

Biochemist

Invent and develop novel, molecular recognition based assay systems for genetics, genomics and proteomics measurements. Use quantitative biochemical reasoning and methods for analytical characterization of protein, nucleic acid and surface interactions focusing on thermodynamics and kinetics. Send resumes to steve_laderman@agilent.com. **Req. 685464**

Array Surface Chemist

Develop approaches to protein/nucleic acid binding arrays for use in pharmaceutical and diagnostic applications by developing novel high performance surfaces as substrates for binding proteins and nucleic acids using state of the art synthetic chemistry. Send resumes to alex_apffel@agilent.com.

Cell Biologist

Develop novel approaches to protein binding arrays for use in pharmaceutical and diagnostic applications for characterization and analysis of protein expression in the context of systems biology. Send resumes to alex_apffel@agilent.com. **Req. 205505.**



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Agilent Technologies is an equal opportunity employer
committed to workforce diversity and work/life programs.

Invitrogen, a growing company delivering innovative products for gene cloning and expression, is currently seeking highly motivated individuals to fill the following positions:

DIRECTOR OF PROTEIN EXPRESSION/PURIFICATION

Section leader for high throughput protein expression and purification group with an emphasis on developing cost-effective, robust and scalable processes for the purification of a variety of recombinant proteins. Candidate requirements include a Ph.D. degree in Molecular Biology or Biochemistry with 7-10 years' industrial experience in the area of protein expression and purification. Extensive experience expressing recombinant proteins in multiple expression systems including prokaryotic, eukaryotic and insect expression systems required. Proven capability to develop and implement high throughput automation of protein expression/purification a must. Experience with fermentation, protein/antibody conjugation and protein biochemistry a plus.

MAMMALIAN GENE EXPRESSION SCIENTIST

The successful candidate will develop novel technologies for recombinant protein expression in cultured mammalian cells. Experience with mammalian tissue culture and transfection is required. Working knowledge of viral expression systems and/or site specific recombination is a plus. This position requires a Ph.D. with a minimum of 2 years' industry experience.

RNA ANALYSIS SR. RESEARCH SCIENTIST

We are looking for a creative and team-oriented scientist with excellent communication skills to play a leading role in the development of novel products and technologies for the isolation, synthesis and analysis of RNA. The successful candidate will have a Ph.D. in Biochemistry, Molecular Biology or a related field with at least four years' postdoctoral experience. Experience with robotics and reduction of systems to a high throughput format is of particular interest.

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Genomics Faculty Position

Memorial Sloan-Kettering Cancer Center is seeking an outstanding individual to fill a tenure-track faculty position in the area of genomics. Candidates should be applying the techniques of genomic analysis to probe fundamental biological questions relevant to oncogenesis. The successful candidate will be expected to lead a strong independent research program and will join the new Cancer Genetics Program. The faculty member will also assist in the development of a Genomics Core Laboratory and be responsible for its oversight. Memorial Sloan-Kettering provides an extraordinary opportunity for individuals interested in human/cancer genetics through both its clinical and basic science resources. Appointment at any level will be considered.

Candidates should send their CV, a description of their past research, a description of their proposed research, selected reprints, and three letters of reference to: **Genomics Faculty Search, Ms. Linda Smith, Box 150, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021.** Submission can also be made by e-mail as either Microsoft Word or pdf files to l-smith@ski.mskcc.org. Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chair, Genomics Search Committee: e-mail: k-marians@ski.mskcc.org. EOE/AA



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RESEARCH INVESTIGATOR CELLULAR/MOLECULAR BIOLOGIST

Determines efficacy of novel oncology agents using standard in vivo tumor animal models; develops new orthotopic, metastatic and angiogenic in vivo animal models; and participates in mechanism of action studies. A Ph.D. or DVM, 3-5 years postdoctoral experience in an academic or industrial drug development environment, and knowledge of signal transduction pathways, cellular interactions and angiogenesis factors as it relates to cancer are required. **Ad Code: 2K-KDA3423**

RESEARCH CELLULAR/MOLECULAR BIOLOGIST

Researches tumor growth, angiogenesis, apoptosis and metastasis to understand the mechanism of action of novel anti-cancer drugs. Major responsibilities include immunohistochemistry, immunocytochemistry, in situ hybridization and cellular analysis of tumor sections. A Master's degree in Biology and 3-5 years experience in industrial or academic research are required. Must have experience in immunohistochemistry, immunocytochemistry, in situ hybridization, tissue preparation, general histology and cell cycle analysis. **Ad Code: 2K-KDA3422**

POSTDOCTORAL ASSOCIATES AND RESEARCH SCIENTIST

Determines the structures of proteins and protein/ligand complexes by NMR, and applies SAR by NMR (*Science*, 274 P. 1531, 1996). A Ph.D. experience in Molecular Biology and Protein Biochemistry, and a strong interest in applying NMR methods for protein structure determination and drug discovery are required. **Ad Code: 2K-KDA2621**

PHARMACOLOGIST

Plans, assists, designs and conducts studies related to the oral delivery of compounds to identify rate-limiting barriers to absorption. Studies include both in vitro measurements of intestinal epithelial transport as well as whole animal determinations of intestinal absorption. Requires a BS or MS in Biochemistry, Pharmacology, or Toxicology, and at least 2 years experience in drug metabolism, pharmacology or analytical chemistry lab. Experience analyzing pharmaceutical leads in plasma/buffer by HPLC/MS and liquid scintillation detection as well as experience with maintenance of tissues ex vivo is essential. **Ad Code: 2K-KDA1041**

GENETIC TOXICOLOGIST

Responsible for conducting genetic toxicology studies in support of new drug candidates. Prepares/conducts studies, evaluates chromosomal aberrations and report findings. An MS or BS degree, 6 years experience in toxicology, biochemistry, medical technology or related field, and extensive experience conducting genetic toxicology studies (Ames test, in vitro cytogenetics, and in vivo micronucleus) in compliance with GLP and ICH guidelines are required. **Ad Code: 99-CSC4279**

MANAGER OF GENETIC TOXICOLOGY

Manages professional and technical staff and activities. Discovers and identifies lead compounds, and evaluates potential drug development candidates and subsequent development of products. A Ph.D. in Genetics or related field and at least 10 years experience in industrial genetic toxicology are required. Prior experience in global regulatory requirements and guidelines, risk assessment, preparation of regulatory submissions, and agency interactions are musts. Should have effective project management skills and knowledge of key opinion leaders of relevant disciplines. **Ad Code: 2K-CSC0025**

SR. RESEARCH CELLULAR/MOLECULAR BIOLOGIST

Supervises Pharmacogenomics laboratory which support Discovery and Development teams through application of knowledge of genetic variation as it relates to drug response. Experimental approaches include bioinformatics, genetic polymorphism discovery, genotyping of clinical trial samples, and in vitro analyses of the effects of genetic variation. Ph.D. in Molecular/Cellular Biology, Biochemistry, Genetics or related field, 2+ years postdoctoral experience, and demonstrated experience in genotype assay development required. Prior supervisory experience a must. **Ad Code: 2K-CSC3271**

CELLULAR AND MOLECULAR BIOLOGIST

• Electron Microscopist •

Provides ultrastructural pathology support for Non-clinical Drug Safety studies, as well as for other biological microscopy projects. A Master's degree in Cell Biology, Anatomy or Zoology or a Bachelor's degree and equivalent experience is required. Must possess a thorough understanding of mammalian histology and ultrastructure, as well as excellent technical skills including tissue collection at necropsy, tissue and cell processing for TEM, sectioning, staining, operation of electron microscopes, and darkroom procedures. **Ad Code: 2K-CSC3228**

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Founded in 1988, Regeneron has established itself as a leader in the application of molecular and cell biology to the discovery and development of novel human therapeutics. Using our expertise in growth factors and their mechanisms of action, we're focused on developing protein-based drugs for a number of important medical conditions such as asthma, arthritis, cancer, obesity and vascular disease.

Regeneron is a company founded on the belief that talented scientists with the right resources can achieve outstanding results. We're dedicated to finding the most highly qualified people and providing them with a creative, energetic environment where new ideas and innovation can flourish.

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- Research & Development
- Protein Sciences
- Pre-Clinical Sciences

PILOT PLANT:

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- Document Coordinator

QA/REGULATORY:

- Regulatory Associates
- QA Auditor

If you are unable to attend the Open House, please send your resume to: Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591. Fax: (914) 345-7790. E-mail: jobs@regpha.com EOE M/F/D/V

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www.regeneron.com

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Postdoctoral Positions

Postdoctoral Fellow Solid Organ Transplantation Laboratory

The Research Department of the Alfred I. duPont Hospital for Children invites applications from successful individuals seeking an innovative and challenging postdoctoral research experience in its Solid Organ Transplantation Laboratory. This individual will have a thorough knowledge of molecular genetics as well as the desire for a new direction, while remaining focused on specific problems of scientific interest. Must be comfortable in both guiding and being guided in pursuit of answers to intriguing biological and medical questions. Our young laboratory is focusing on elucidating the viral and cellular interactions leading to lymphomagenesis in children.

Applicants for this position may direct resumes via fax to (302) 651-6881, or mail to **Dr. L. Krueger, The Alfred I. duPont Hospital for Children, PO Box 269, Wilmington, DE 19899.** Electronic submissions can be directed to lkrueger@nemours.org.

Laboratory of Epithelial Cell Biology

The primary focus of the Laboratory of Epithelial Cell Biology is the regulation of chloride channel activity in cystic fibrosis and the biochemical basis for the relationship between the loss of CFTR activity and CF pathophysiology. Recent work from the laboratory has identified drugs with therapeutic potential that we are now testing in cell culture systems. The position involves studies of antibacterial activity in airway cell lines and the characterization of secreted antibacterial proteins. Expertise in molecular biology and bacteriology are essential. The duPont Hospital for Children is the pediatric teaching hospital for Thomas Jefferson University and the Laboratory of Epithelial Cell Biology is part of the Department of Pediatrics. Competitive salary and benefits plans are offered. Applicants for this position may direct a cover letter, curriculum vitae, and the names of three references to **Dr. William Reenstra, Department of Clinical Science, The Alfred I. duPont Hospital for Children, PO Box 269, Wilmington DE, 19899 or fax 302-651-6782.** Electronic submissions may be directed to wreenstr@nemours.org.

Research Associate, Urology

Assist in the design and execution of an internally funded research project supervised by the Director of Research of the Division of Urology. This is a postdoctoral position whose goal will be to help map the mammalian gene responsible for cryptorchidism in an inbred line of rats, leading to an eventual search for the human gene and facilitating study of the molecular mechanisms of testicular descent. Cryptorchidism is a condition that affects 2-5% of full-term and up to 23% of premature male infants. Candidate should have a Ph.D. or equivalent degree in biochemistry, cell biology or a related area; be knowledgeable and experienced in molecular genetic techniques, microsatellite mapping, & computer analysis; possess good writing skills; and be capable of experimental design and independent work. Experience/interest in steroid hormone biochemistry and/or reproductive developmental genetics is preferred.

Candidates interested in this position may forward resumes to **Dr. J. Spencer Barthold, The Alfred I. duPont Hospital for Children, PO Box 269, Wilmington, DE 19899 or fax (302) 651-6881.** Electronic submission may be directed to mjanes@nemours.org.

The Alfred I. duPont Hospital for Children is a pediatric teaching hospital dedicated to patient care and research. Our patient population has expanded to include a variety of inpatients and outpatients in the areas of orthopedics, neurology, cardiothoracic surgery, developmental and rehabilitation and medicine.

For more information about the Alfred I. duPont Hospital for Children and our research opportunities, please visit our Web site at www.KidsHealth.org.

ALFRED I.
duPont
 HOSPITAL FOR CHILDREN

An Operating Division of the Nemours Foundation

Myriad Genetics has established itself as a leader in the discovery of human disease genes by using a powerful combination of positional cloning, proteomics, bioinformatics and high-throughput sequencing. A wholly owned subsidiary, Myriad Pharmaceuticals, Inc. has been established to use these discoveries to create novel therapeutic products for the treatment of human diseases.



We are currently seeking talented individuals to fill the following positions:

RESEARCH ASSOCIATE, SCREEN DEVELOPMENT

Join a group dedicated to designing and engineering novel microbiological assays that target human proteins. You must have an MS degree in a biological science or related field, experience with a range of molecular biological techniques, and the ability to work independently, formulate and test hypotheses, and master relevant scientific literature. Experience with yeast-based systems preferred.

RESEARCH ASSOCIATE, LEAD VALIDATION

You must have a BS or MS degree in a biological science or related field, and a mastery of mammalian cell culture technology, flow cytometry and fluorescence microscopy. You must also have experience with molecular techniques, ELISA, RIA, and colorimetric and fluorescent assays.

Myriad offers an attractive compensation package and a stimulating, interactive research environment. Please send your letter of interest, including a complete resume and the names of three professional references, to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108; Fax: 801-584-1144; E-mail: humanres@myriad.com



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Join us in changing the world with great care.

Be a part of an innovative premier healthcare company that celebrates your successes as well as our own. Bayer presently has the following exceptional opportunities available within our Pharmaceutical Division in West Haven, CT.

Assistant Director, Scientific Communications

You will be responsible for developing and implementing a scientific communication strategy for one or more drug products or therapeutic areas to achieve Bayer's US and international marketing and sales objectives. You will communicate scientific and clinical data to the medical community by writing and supervising the creation of articles for the medical literature, presentations for national conferences, slide kits, and other educational material.

A strong scientific/medical background, a Ph.D., MD, or PharmD in a scientific/medical discipline, plus a minimum of five years of experience in a related scientific/medical/pharmaceutical area required. A minimum of four years of experience must include medical writing. Demonstrated ability to interpret and present scientific and clinical trial data, and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals. **ASMW0866**

Scientific Editor

You will support the Associate and Assistant Directors by writing and editing scientific articles, poster and slide presentations for national conferences, and other educational materials. You will perform literature searches, track project development, revise publications based on critical review and interface with medical publishers and opinion leaders. Requires a strong scientific background, a Ph.D. or PharmD in a scientific/medical discipline, plus a minimum of 3 years experience in a related scientific/medical/pharmaceutical area, at least two of which must include medical publishing, or a Master's degree plus a minimum of five years of experience in a related scientific/medical/ pharmaceutical area, at least two years in medical publishing or equivalent education and experience required. Requires an excellent ability to interpret scientific and clinical trial data, strong scientific writing ability, editorial skills, and excellent interpersonal skills. Must be independent, creative and able to handle a variety of projects simultaneously. **ASMW0910**

To apply, send resume and cover letter with salary requirements (indicating position of interest with Job Code): Bayer Corporation, Pharmaceutical Division, PO Box 3238, Scranton, PA 18505-0238; or fax: 1-888-805-7474. No phone calls please.

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You will lead a team of Ph.D.-level and associate scientists focused on lead generation for kinase and phosphatase targets. This involves coordinating all high-throughput and secondary assay development efforts for the team; sponsoring orphan targets on the kinase/phosphate target platform; and integrating the new technologies necessary to build expertise in this area of drug discovery. We require a Ph.D. with 5 or more years of relevant industry experience.

Project Leaders, GPCR Platform Lead Discovery

You will use your motivation and innovation to add GPCR and ion channel expertise to our Lead Generation Biology group. Other responsibilities include assay development of high-throughput and secondary screens across 5 therapeutic areas. We require a Ph.D. with a minimum of 3 years of industry experience.

trial/post-doctoral experience. Experience in cell-based assay design, mammalian expression systems, and receptor mutagenesis is desirable.

Group Leader, Protein Technologies

You will lead a multi-disciplined team focused on expression and purification of targets for lead discovery. This involves coordinating production of reagents and assay systems for select high-throughput screens and in-vitro secondary assays across multiple target platforms. We seek a Ph.D. with a minimum of 3 years of industry experience, including experience in mammalian and baculovirus expression systems. Protein purification experience is essential.



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Curriculum vitae, a list of references, and a summary of research interests should be sent to:

Dr. Samuel J. Traina
Search Committee Chair
School of Natural Resources
The Ohio State University
2021 Coffey Road
Columbus, OH 43210-1085

Review of applications begins on September 1, 2000 and will continue until the position is filled. The position is available July 1, 2001.



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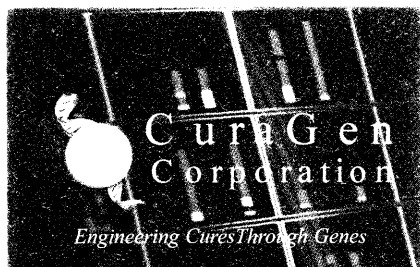
Postdoctoral Position in Developmental and Molecular Biology

A NIH-funded postdoctoral position is immediately available to study the role of homeobox genes during early murine pattern formation. Particular emphasis will be given to the elucidation of the roles of the Prox1 gene (Nature Gen 21, 318-322 (1999)); during lymphangiogenesis (Cell 98, 769-778 (1999)) and liver formation (Nature Gen 25, 254-255 (2000)). Competitive salary, benefits, and modern research facilities are provided. Candidates who recently obtained a Ph.D. or MD degree with a background in molecular and developmental biology are encouraged to apply. Interested individuals should send their CV, a brief description of their research interests, and the names of three references to:

Guillermo Oliver, Ph.D.
Department of Genetics
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105
USA

www.stjude.org/departments/oliver.htm

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CURA GEN's rapid growth has created new career opportunities. We currently have openings for individuals with backgrounds in molecular biology, biochemistry, biology engineering, bioinformatics, medicine and other related fields. Successful CuraGen employees are exceptionally organized, have an entrepreneurial spirit, a passion for their work, and thrive in a challenging, team oriented environment. We are currently seeking highly driven individuals for the following positions:

Vice President/Internal Discovery

CuraGen is looking for a world leader in applying functional genomics to the identification and validation of drug targets and the development of therapeutics. An encyclopedic knowledge of the genetic basis of human diseases with expertise in metabolic disease, oncology, inflammation, or central nervous systems disorders is required. M.D./Ph.D. with 8+ years of success in the pharmaceutical or biopharmaceutical industries. Job Code: 183-99

Director/CNS Disorders

Build and lead a team of scientists in the discovery of drug targets for neurological and neuropsychiatric diseases. Five or more years of experience leading efforts in the elucidation of pathways for CNS disorders and target validation required. Ph.D. or M.D. Job Code: 230-99

Senior Research Scientist/Internal Discovery

Must possess a substantial research and publication track record in the mechanisms contributing to tumor development, tumor progression and approaches to anti-cancer therapy development. Specific areas of expertise must include mechanisms of tumor cell growth, invasion and motility, adhesion, angiogenesis, metastasis, host responses and contributions to tumorigenesis and resistance to therapy. Ph.D. or M.D. required. Job Code: 092-00

Please send cover letter, resume / CV and 3 letters of recommendation. EOE



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A Ph.D. in a scientific discipline with 1-2 years research experience is desired. Ideally, you should possess a strong biological, biochemical, or pharmaceutical background and a vested interest in information management and the pharmaceutical industry. Key attributes are an ability to analyze complex information, a proven talent for working independently, and excellent interpersonal and communication skills. Experience in searching biomedical information is a plus, as is a background in genomics or biotechnology.

RESEARCH SCIENTIST III, IMMUNOASSAY

In this position, you will be responsible for developing, improving, and validating immunoassays for the quantitation of protein drugs and for detection of anti-product antibodies in biological fluids. In addition, you will also provide immunoassay related GLP bioanalytical support to pre-clinical and clinical projects, train and supervise junior level scientists in validating immunoassays, and perform routine sample analysis with a validated bioanalytical method.

Qualifications include a Ph.D. in Biochemistry, Immunology or a related field with 0-2 years of relevant experience. Ideally, applicants should be experienced in working with protein characterization techniques and GLP regulations.

SCIENTISTS, IMMUNOASSAY

Responsibilities for these positions include providing bioanalytical support using validated immunoassay techniques for the quantitation of protein drugs, small organic molecules and for detection of anti-product antibodies in biological fluids from clinical and pre-clinical studies. You will also be responsible for improving, validating and troubleshooting existing assays, as well as assisting in the preparation of bioanalytical reports.

Candidates must possess a BS in Biology, Biochemistry, Chemistry or a related field with 0-6 years of relevant experience or an MS with 0-4 years of relevant experience. Experience in working with protein characterization techniques and GLP regulations is preferred.

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Two Faculty Positions—Assistant or Associate Professor

1) Plant Tissue Culture and Transformation

2) Plant Functional Genomics

The University of Arkansas at Fayetteville seeks applications for two tenure-track, 12-month positions at the level of Assistant or Associate Professor in the Arkansas Agricultural Experiment Station and the Dale Bumpers College of Agricultural, Food and Life Sciences. The successful candidates will join plant biologists in providing University-wide leadership and in establishing excellence in plant molecular biology for research and educational programs. The incumbents will work closely with a state-wide team of molecular biologists, crop breeders, physiologists, entomologists, and pathologists and participate in the Cell and Molecular Biology interdepartmental graduate program. The faculty members will develop and teach graduate courses, develop externally funded and nationally competitive research programs, and publish results of the program in the scientific literature. A new biotechnologies core laboratory will be accessible to aid the successful candidates. A Ph.D. in a plant, molecular biology, or closely related discipline is required. Postdoctoral experience and demonstrated experience in grantsmanship and interdisciplinary research are highly desirable. Salaries are competitive and commensurate with qualifications and experience. An excellent benefits and retirement package is included with the positions.

Position 1. Plant Tissue Culture and Transformation.

The successful candidate will apply tools of plant molecular biology towards improving tissue culture and plant transformation techniques and to further the understanding of gene expression. Administrative responsibilities include management of a plant tissue culture and transformation core facility for the University. Administrative responsibilities of the plant tissue culture core facility are to provide oversight and educational opportunities for graduate students and faculty requiring assistance. Teaching responsibilities include a course in plant transformation and tissue culture.

Position 2. Plant Functional Genomics.

The successful candidate will apply state-of-the-art methods of plant genome analyses. Possible areas of research interests include coordinated gene expression, genomic effects of transgene expression, and/or genomic effects on protein or metabolite profiles. Responses to biotic or abiotic stresses, environmental or developmental changes, metabolic pathways, or genomic contributions to value-added traits are among the possible topics for a research focus. The candidate will also be expected to teach advanced courses in their area of expertise.

Application Procedure and Deadlines: Review of materials will begin Sept. 1, 2000, and will continue until suitable candidates are found. To the appropriate committee, submit a letter of application stating career goals, curriculum vitae, graduate transcripts, and three letters of reference.



Dr. Larry C. Purcell, Search Committee Chair
Tissue Culture/Transformation Position
c/o Gloria Fry
Plant Science Building, Room 115
University of Arkansas
Fayetteville, AR 72701
email: lpurcell@comp.uark.edu

Dr. Ken Korth, Search Committee Chair
Plant Functional Genomics Position
Plant Sciences Building, Room 217
University of Arkansas
Fayetteville, AR 72701
email: kkorth@comp.uark.edu

The University of Arkansas is an Affirmative Action/Equal Opportunity Institution, and applications will be accepted without regard to age, race, color, sex, or national origin. Applicants must have proof of legal authority to work permanently in the United States.

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Organized by: Sam Gandy,
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- Cerebral Amyloidoses
- Amyotrophic Lateral Sclerosis
 - Mechanisms of Neurodegeneration
- Current Therapies & Prevention
 - Cell and Gene Transfer
 - Genetics, Genomics & Patient Selection

Andrea Califano, Dennis Choi,
Mel Feaney, Kevin Felsenstein,
Mark Gurney, Michael Hutton,
Ron McKay, Nick Mazarakis,
Anne Murphy, Suzette Priola,
Sophie Roy, Russell Rydel,
Mary Sano, Dennis Selkoe,
Robin Sherrington, Sukanto
Sinha, Li-Huei Tsai, Huda Zoghbi

Abstract Deadline: Sep 27, 2000

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For more information visit our website at:
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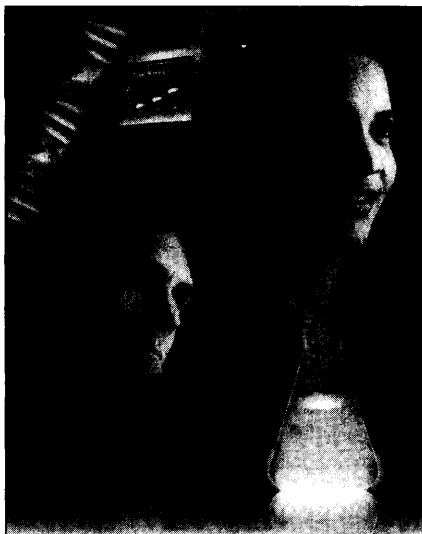
RESEARCH GRANTS PROGRAM IN GENETICS

The Epilepsy Foundation invites applications for research projects designed to improve understanding of the genetics of seizure disorders and identify genetic therapeutic approaches leading to development of potential cures.

Inquiries are invited from established investigators (academic rank of Assistant Professor or higher) at academic institutions within the United States. The deadline for submission of preliminary proposals is September 15, 2000. Funding of projects is to commence on July 1, 2001.

For further information, including guidelines for submission of preliminary proposals contact:

Epilepsy Foundation
Targeted Research Program
4351 Garden City Drive
Landover, MD 20785-2267
phone: (301) 459-3700
fax: (301) 577-2684
e-mail: grants@efa.org



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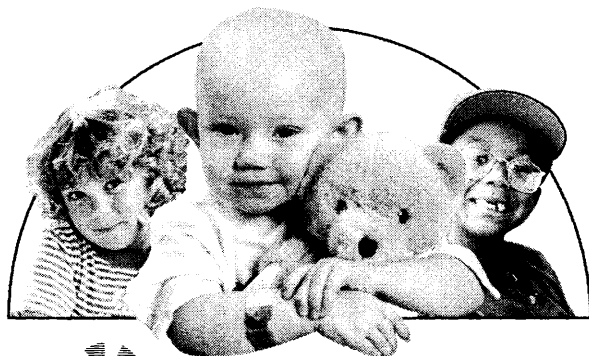
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A postdoctoral position is immediately available to study the molecular basis of *S. pneumoniae* infectivity using molecular and structural biology techniques, with emphasis on **Protein Structure Determination by NMR**. The position is joint between the laboratories of Drs. E. Tuomanen (Infectious Diseases) and R. Kriwacki (Structural Biology) and will focus on pneumococcal proteins involved in host recognition. St. Jude offers a collaborative, state-of-the-art research environment for training in molecular and structural biology, and the related fields of bioinformatics, proteomics and structural genomics.

Applicants should be recent graduates with experience in: biomolecular NMR, molecular biology, and/or protein biochemistry. St. Jude offers a competitive benefits package including medical and dental coverage, relocation supplementation and yearly professional development funds.

Send c.v. and names of 3 references to Drs. Tuomanen or Kriwacki via e-mail: elaine.tuomanen@stjude.org or richard.kriwacki@stjude.org. St. Jude Children's Research Hospital is an Equal Opportunity/Affirmative Action Employer.



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MAYO CLINIC AND FOUNDATION ROCHESTER, MINNESOTA

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Please send a curriculum vitae and bibliography, and the names and addresses of three individuals from whom letters of reference may be obtained to: **Dr. Rajiv Kumar, Ruth and Vernon Taylor Professor, 911A Guggenheim, Mayo Clinic and Foundation, 200 First Street SW, Rochester, MN 55905;** e-mail rkumar@mayo.edu, fax 507-266-4710, or to **Dr. Stephen Naylor, Professor and Director, Mayo Mass Spectrometry and Functional Proteomics Facility, C-053 Guggenheim, Mayo Clinic and Foundation, 200 First Street SW, Rochester, MN 55905;** e-mail naylor.stephen@mayo.edu.

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Director of Microarray Technology

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A position is available immediately for a recent Ph.D. to study the regulation of cytokine synthesis in Chronic Beryllium Disease. Applicants with experience in biochemistry, cellular immunology or molecular biology are especially encouraged to apply. Send CV and three references to:

Lee S. Newman, M.D.
Division of Environmental and Occupational
Health Sciences
National Jewish Medical and
Research Center
1400 Jackson Street, B121
Denver, CO 80206
Fax: 303-398-1775
HR@njc.org

NATIONAL JEWISH
Medical and Research Center

AA/EOE



RESEARCH ASSISTANT PROFESSOR

Department of Anatomy
West Virginia University

Available immediately, full-time temporary position to participate in lectures and laboratory for team-taught courses for Dental and Medical Students. Opportunities exist for developing instructional technology for biomedical courses and for conducting basic research in various areas of cellular and neural science. The position is a one-year contract beginning September 1, 2000, with the possibility for an additional two years of appointment in the beginning salary range of \$35,000-\$45,000 annually, plus benefits.

Send CV, References, and a one-page narrative describing your teaching experience and career plans to:

Richard D. Dey, Ph.D.
Professor and Interim Chairperson
WVU Department of Anatomy
P. O. Box 9128
Morgantown, WV 26506-9128

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PHARMACEUTICAL

3-Dimensional Pharmaceuticals, Inc. is a post-genomics drug discovery company which has developed a proprietary technology platform uniquely integrating structure-based drug design, combinatorial chemistry, and high-throughput screening for the cost-effective discovery of novel pharmaceuticals. We are currently seeking motivated individuals with outstanding qualifications and excellent communication skills to join our team in the following areas:

Molecular and Cellular Biology (BS/MS)

Candidates should possess a BS/MS degree and 2+ years experience in cDNA cloning and protein expression to support drug discovery efforts. Successful candidates will have experience in RNA isolation, RT-PCR, mutagenesis and protein expression in several systems, including *E. coli*, baculovirus and mammalian cells. Additional experience in one or more of the following areas desirable: HTS development/execution, protein biochemistry, receptor binding assays, signal transduction, enzymology, gene transfection to investigate protein function. (Job code: CM01)

Molecular and Cellular Biology/Pharmacology (PhD)

Candidates should possess a PhD in Molecular/Cellular Biology, Biochemistry, Pharmacology, or a related field supported by postdoctoral research in molecular disease mechanisms related to one or more of the following therapeutic areas: oncology, metabolic diseases/endocrinology, CNS, vascular biology, inflammation. A demonstrated ability to design and perform various cellular/biochemical screening assays is required, along with strong communication and teamwork skills. Significant research experience in one or more of the following areas also would be desirable: molecular biology, G-protein coupled receptor pharmacology, protein purification, enzymology. (Job code: CM03)

Protein Expression/Protein Purification (BS/MS)

Positions exist for energetic and motivated individuals with demonstrated experience in molecular biology and protein purification techniques. The desired candidate should have a BS/MS in biological or related sciences and 2+ years experience in an industrial or academic setting. Preference will be given to individuals who have demonstrated experience with membrane proteins and can work independently. (Job code: DR01)

Crystallography (PhD)

Position available for a Protein Crystallographer with a PhD in biochemistry, molecular biology, chemistry, or biophysics, along with postdoctoral experience in the area of protein x-ray crystallography. A strong record of success in crystallographic structure determination and experience in MAD-phasing, MIR-phasing, protein purification, and molecular modeling are pluses. This position involves interaction with chemists and molecular biologists to drive a structure-based drug design program. A successful candidate should possess excellent verbal and written communication skills and the ability to work in large, multidisciplinary project-teams. (Job code: JC501)

Protein Biochemistry (BS/MS/PhD)

Positions exist for motivated individuals who are technically skilled, creative, and independent. These individuals will join multidisciplinary teams working to express, purify and characterize novel protein targets for drug discovery and structural biology. Several positions entail working with GPCRs and other membrane proteins. Candidates should have expertise in several of the following areas: protein purification; protein folding; ligand-receptor binding interactions; spectroscopic characterization of proteins; GPCR function; receptor pharmacology; enzymology, protein engineering. Competence in recombinant DNA methodologies, overexpression of proteins, or protein crystallization is a plus. (Job code: BLG01)

Enzymology (BS/MS/PhD)

Positions are available to develop enzyme and receptor binding assays, perform kinetic characterizations, determine enzyme and inhibitor mechanisms, and support protein production and drug discovery. PhD-level and BS/MS-level candidates with 2+ years of experience will be considered. Experience in laboratory automation, high-throughput assay development or analytical biochemistry is particularly desirable. (Job code: CM02)

Located in Exton, PA, 3DP offers a comprehensive compensation and benefits package. Qualified individuals are invited to send their cover letter and resume with contact data for three references before September 30, 2000 to:

3-Dimensional Pharmaceuticals, Inc.

Attn: Job Code:

665 Stockton Drive, Suite 104

Exton, PA 19341

No phone calls or agencies, please.



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MitoKor, a unique biotechnology company based on mitochondria, the biochemical power plants of cells, is involved in the diagnosis and treatment of late onset degenerative and metabolic diseases. We are actively seeking an enthusiastic and creative individual who enjoys working in a team environment and offer the following career opportunity:

• Scientist/Senior Scientist

You will work as a key member of a proteomics program to study the role of mitochondria in human diseases. Duties will include the study of differential protein expression patterns in diseased tissue and in cellular and animal models of the diseases, disease-specific protein modification and identification of molecular species involved in mitochondria-linked cell death pathways. You will participate in a multidisciplinary team effort for the discovery, validation, and development of novel drug discovery targets for high throughput drug screening.

The ideal candidate for this position has a Ph.D. in chemical/biochemical sciences with at least two years postdoctoral experience. Specific expertise in mass spectrometric techniques, protein chemistry, HPLC and electrophoresis methods required. Experience in other bioanalytical approaches, cell culture, and basic molecular biology techniques helpful.

In addition to an excellent compensation and benefits package, including 401(k) and stock options, we offer an exceptional work environment and the opportunity to work with a team of people dedicated to making MitoKor a great place to work. For immediate consideration, please e-mail, send or fax your resume to: 11494 Sorrento Valley Road, San Diego, CA 92121, Fax (858) 672-3429, e-mail: hr@mitokor.com

MITOKOR

EOE/M/F/D/V

Manager, Microarray Facility

As part of a strategic plan to expand its presence in the areas of genomics, proteomics and bio-informatics, Memorial Sloan-Kettering Cancer Center will establish a centralized, advanced resource for the analysis of gene expression and other applications in diagnostic and research genomics, especially as it applies to our quest for better methods to control and cure cancer.

We are looking for a dynamic scientist to assume day-to-day management of the new microarray core facility. The manager will play a key role in the development of the laboratory; train and supervise four staff members, manufacture and optimization of arrays, integration with bio-informatics resources, and offer expertise for experimental design and data validation. The Facility Manager will work closely with clinical and basic science researchers to design, execute and interpret a variety of experiments, utilizing the expanding microarray technology.

The successful candidate must have a Ph.D. (or equivalent) in molecular biology, biochemistry, analytical chemistry or engineering, hands-on experience with micro-arrays and relevant engineering/computer technologies, and some experience in most or all of the following: quantitative nucleic acid hybridization, fluorescent probes, PCR, cDNA preparation, instrumentation and automation, microtiter-based robotics, experimental design and data analysis. Two to three years of postgraduate training in academic or corporate research, attention to detail and accuracy, strong organizational and troubleshooting abilities, and good communication skills are required. Previous management and administrative experience is preferred.

Appointment will be made to the Laboratory (non-tenure) Track Faculty, equivalent to Assistant or Associate Research Professor at most universities. Salary and rank according to qualifications.

Please e-mail all inquiries, C.V. and names of three references to: Dr. Paul Tempst, Professor and Chair, Microarray Search Committee, Memorial Sloan-Kettering Cancer Center, New York, NY 10021. E-mail: p-tempst@mskcc.org. EOE/AA



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We have the following position available at our Framingham, MA location:

Scientist - Gene Therapy

Seeking qualified candidate to work with a group of scientists developing advanced generation viral vectors including fully-deleted adenoviral vectors for gene therapy of genetic diseases, cancer and cardiovascular diseases.

Requires experience in Molecular Biology, Virology or Cell Biology. Ideal candidate will have experience in design, construction and production of viral vectors for gene delivery in vivo and the ability to interact productively in a multidisciplinary team environment.
Job Code: 00-1495

**Interested candidates should forward resume, including Job Code, to: Human Resources Department, Genzyme Corporation, One Kendall Square, Cambridge, MA 02139.
E-mail: jobs@genzyme.com**

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UNIVERSITY**

State University of New York

BINGHAMTON UNIVERSITY State University of New York DEAN of the WATSON SCHOOL OF ENGINEERING AND APPLIED SCIENCE

THE WATSON SCHOOL OF ENGINEERING AND APPLIED SCIENCE, established in 1983, has built a reputation for excellence in engineering education and basic and applied research. It enjoys close working relationships with the high technology community and helps advance industrial practice. The Watson School offers bachelor's, master's, and doctoral degrees through departments of Computer Science, Electrical Engineering, Mechanical Engineering, and Systems Science and Industrial Engineering. The Division of Engineering Design is responsible for the first two years of the program, common to all majors. The University intends to develop programs in bioengineering.

Reporting to the Provost, the Dean is the chief academic/administrative officer of the Watson School with responsibility for its operation in accordance with the University's mission and goals. The Dean provides vision and leadership and works productively with faculty to foster excellence in instructional, research, and outreach programs. With consultation, the Dean is responsible for the recruitment and retention of faculty and staff. The Dean administers the School's budget, is a major contributor to the University's first Comprehensive Gifts Campaign, and participates actively to promote synergy in curricular, research, and outreach endeavors throughout the University.

Binghamton University is one of four doctoral-granting, research-based University Centers in the 64-campus State University system. Consistently ranked among the nation's most selective public universities in the quality of its entering freshmen, Binghamton offers over 130 degree programs (half at the graduate levels) to 12,000 students (nearly 2,300 graduate) enrolled in four professional schools (Education and Human Development, Engineering, Management, and Nursing) and the Harpur College of Arts and Sciences. Visit www.binghamton.edu.

Candidates/nominees should have professional achievement appropriate for tenured senior faculty and the capabilities and sensibilities to lead and support a dynamic faculty in the conduct of excellent degree programs and significant research. Candidates should possess superb interpersonal skills and the ability to work effectively in both academic and industrial cultures. An earned doctorate is preferred but significant alternative experiences that prepare them for this position will be considered.

Review of candidates begins immediately and will continue until the position is filled. Anticipated starting date: July 1, 2001. Applications should include curriculum vitae and references. Nominations invited. Direct correspondence in confidence to: Paula Carabelli (949) 851-5070 or Mary Elizabeth Taylor (212) 686-2676, Educational Management Network/Witt/Kieffer, 3 Park Avenue, 29th Floor, New York, NY 10016, binghamton@emnemn.com; fax: (212) 686-2527. AA/EQ.

Educational Management Network/Witt/Kieffer

SENIOR RESEARCH TECHNICIANS

(2 Positions)

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Join our atmosphere of discovery at the Lindsley F. Kimball Research Institute of the New York Blood Center. Currently, we offer two excellent opportunities in our dynamic Immunogenetics Lab/Placental Cord Blood Program.

You will perform all SOPs for processing of cord blood units, and prepare different sterile aliquots from cord blood units with appropriate labels. Positions involve assisting in the shipment of units to various hospitals, executing Oracle system computer entries, and working on special projects. To qualify, you must have a B.S. in biological sciences; excellent organizational, interpersonal and communication skills; and the ability to follow SOPs. You must be detail-oriented with the ability to lift heavy objects and to work a flexible schedule. Lab experience and/or basic computer experience helpful.

We offer a competitive salary and benefits package. Please forward your resume to: **Human Resources Dept-MK, New York Blood Center, 150 Amsterdam Ave., New York, NY 10023; Fax: 212-468-2082; e-mail: careers@ccmail.nybc.org** EOE M/F/D/V.

**▲ Lindsley F. Kimball
Research Institute**
A Division of the New York Blood Center

Two Tenure-Track Faculty Positions At The Medical College of Ohio

An Assistant Professorship is available for research and teaching in **bacterial pathogenesis**. The successful applicant would join three existing molecular bacteriologists in the Department of Microbiology and Immunology. Applicants with proven ability to obtain extramural funding will be strongly preferred.

Applications are also invited for a joint Assistant Professor position in the department and the Cancer Research Center. Candidates should demonstrate research expertise at the **interface of microbiology/immunology and cancer biology**, and provide evidence of the ability to attract NCI or equivalent grant support.

For both positions, the candidate should have a Ph.D. and/or M.D. and at least two years of postdoctoral research experience. Competitive salary and startup packages are available. Send curriculum vitae, a summary of research interests, three letters of recommendation, and reprints of two recently published articles to:

**Dr. Garry T. Cole, Chair,
Department of Microbiology and
Immunology
Medical College of Ohio
3055 Arlington Avenue
Toledo, OH 43614-5806**

Online applications may be made at <http://www.mco.edu/depts/micro/newfac.html>. Review of applications will begin on September 1, 2000. *The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.*

Realizing

Defining the future of miniaturized cell-based assays

SmithKline Beecham, a world-class leader in Research and Development, continues to pioneer innovative pharmaceutical and healthcare products and services. We have the following opportunity available at our state-of-the-art suburban Philadelphia facility.

Molecular Interactions and New Assay Technologies

Molecular Interactions and New Assay Technologies is responsible for the development of state-of-the-art strategies for ultra High Throughput Screening (uHTS). One crucial aspect of this is to leverage SmithKline Beecham's leadership position in G protein-coupled receptor (GPCR) targets by developing systems for the measurement of GPCR function in miniaturized, ultra-fast formats. To achieve this goal, a New Assay Technologies cellular group has recently been formed. A new and exciting opportunity now exists to join this team, as we help define the future of miniaturized cell-based assays.

Ph.D. or Qualified BS/MS Scientist

As a member of the NAT-Cellular group, you will play an important role in the conception, development and testing of cell-based assay technologies. You will also participate in multi-disciplinary collaborations with scientists and technical specialists. You will have a PhD in a relevant subject, or a BS or MS degree with 5 years of experience (preferably in Pharma) in cell-based assay technology. You will also have a strong knowledge and experience of cellular pharmacology, cell signaling, or transcriptional assays, and a strong theoretical and practical understanding of molecular and cell biology.

SmithKline Beecham is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package. For confidential consideration, please forward your scannable resume to: SmithKline Beecham, Ad Code: 2K0879, P.O. Box 40047, Philadelphia, PA 19106. Indicating Ad Code is essential. Principals only, no agencies, please. For a full listing of current opportunities, or to submit a resume online, visit our website at www.sb.com/careers

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ASSISTANT PROFESSOR OF BIOCHEMISTRY AND MOLECULAR BIOPHYSICS University of Arizona, Tucson

The Department of Biochemistry and Molecular Biophysics at the University of Arizona invites applications from outstanding candidates for a tenure track faculty position in the area of macromolecular structure and function, with particular emphasis on biomedical or physiological processes. It is anticipated that a number of additional appointments in areas related to structural biology will be made in our department over the next several years. The University of Arizona and the Department of Biochemistry and Molecular Biophysics offer excellent facilities and a supportive collegial environment to foster development of exceptional academic careers. A start-up package for equipment and other resources is in place. Research space for this position will be located in the College of Medicine on the University of Arizona campus. The successful candidate will be expected to develop an outstanding research program, and to display a commitment to teaching excellence. The University Department of Biochemistry and Molecular Biophysics is responsible for the undergraduate biochemistry degree, participates in the training of medical students, and plays a major role in graduate education. Visit our department web site at www.biochem.arizona.edu, or the University of Arizona Human Resources Department web site at www.hr.arizona.edu, for more information.

Evaluation of applications will begin on September 15, 2000, and will continue until the position is filled. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. Letter of application, curriculum vitae, bibliography, a three-page description of future research, plus three letters of recommendation (sent under separate cover) should be addressed to:

Chair, Biochemistry Faculty Search Committee
c/o Helen Markes
Department of Biochemistry and Molecular Biophysics
BioSciences West Bldg., Rm. 362A2
P O Box 210088
The University of Arizona
Tucson, AZ 85721-0088

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MAYO CLINIC POSTDOCTORAL POSITION VASCULAR BIOLOGY

Two positions are available immediately in a laboratory in the Department of Medicine in the area of hepatic vascular biology. The focus of the laboratory is to understand the regulation of nitric oxide production in the liver with an emphasis on regulation of endothelial nitric oxide synthase as it relates to liver cirrhosis and portal hypertension. The **first position** focuses on the molecular regulation of endothelial nitric oxide synthase. Expertise in cellular biology including immunofluorescence techniques and cell fractionation is required as well as experience in standard biochemistry and molecular biology techniques. The **second position** focuses on nitric oxide, hepatic hemodynamics and experimental models of liver disease. Experience with in vivo hemodynamic measurements and in vitro pharmacology in rodent models is required. Please forward curriculum vitae and letter of interest to:

Vijay Shah, M.D.
Alfred 2-435 GI Research Unit
Mayo Clinic
Rochester, MN 55905
E-mail: shah.vijay@mayo.edu

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

POSITIONS OPEN

TWO POSITIONS IN ECOLOGY AND EVOLUTION

As the first of several new positions anticipated over the next few years, the Department of Ecology and Evolution at the State University of New York, Stony Brook, seeks candidates for two tenure-track positions. The level is open but with a preference for an **ASSISTANT PROFESSOR**. The first position is for a **FUNCTIONAL ECOLOGIST** who studies the ecological implications of physiological, morphological, behavioral, or other organismal processes. The second position is for an **EVOLUTIONARY BIOLOGIST** who integrates aspects of genomics into evolutionary biology with particular interest in evolutionary theory; the genetic architecture of phenotypic variation, development and evolution; or experimental evolution. The successful candidates will be expected to teach at undergraduate and/or graduate levels and to develop externally funded research programs. Closing date for receipt of applications is September 5, 2000. Review of applications will begin shortly thereafter, and interviews will commence October 15, 2000. Applicants should send curriculum vitae, statements of research and teaching interests, reprints, and have three letters of reference sent to: **Search Committee, Department of Ecology and Evolution, SUNY, Stony Brook, NY 11794-5245**. Applicants at the **ASSOCIATE** or **FULL RANK** should send the names of three people who can serve as references. Specify the position for which you wish to be considered in the cover letter. *Affirmative Action/Equal Opportunity Employer.*

The Department of Biological Sciences at Northern Illinois University seeks to hire a tenure-track **ASSISTANT PROFESSOR** using the tools of molecular genetics/functional genomics to address fundamental questions in developmental biology. A Ph.D. in biology and postdoctoral research experience are required. Preference will be given to individuals using a eukaryotic model genetic system such as *Arabidopsis* yeast, *C. elegans*, *Drosophila*, or zebrafish. The successful candidate will be expected to participate in the Department's emerging bioinformatics/biotechnology initiative and establish a strong, externally funded research program; supervise M.S. and Ph.D. students; and contribute to Department teaching at the undergraduate and graduate levels. Send letter of interest, curriculum vitae, brief statement of research and teaching goals, and three letters of reference to: **Dr. Michael Parrish, Chair, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115-2861**. Website: <http://www.bios.niu.edu>; Telephone: 815-753-1753; FAX: 815-753-0461; e-mail: biosjobs@niu.edu. Deadline: Complete applications must be received by October 2, 2000. *Northern Illinois University is an Affirmative Action/Equal Employment Opportunity Institution.*

POSTDOCTORAL POSITION available to study the pathologic processes that control platelet-dependent thrombosis. Ongoing NIH-funded studies focus on the use of genetically modified mice to study gene function *in vivo*. Position requires an M.D. or Ph.D. degree and proficiency in molecular biology, biochemistry, and animal experimentation techniques. Outstanding research environment with excellent salary and fringe benefits. Send curriculum vitae and three references to: **William Fay, M.D., Interim Director, Cardiovascular Research Center, University of Michigan, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0644**. E-mail: wfay@umich.edu.

POSTDOCTORAL POSITION to study electrophysiological abnormalities associated with cardiac hypertrophy, ischemia, and long QT syndrome. Qualifications: Ph.D. or equivalent with strong background in cardiovascular electrophysiology. Annual salary: \$28,000 to \$32,000. Send curriculum vitae, names, and telephone numbers of three references to: **Dr. Ganxin Yan, Cardiology Foundation of Lancaster, Suite 558, MOB East, 100 Lancaster Avenue, Wynnewood, PA 19096**. E-mail: YanGanxin@CS.COM. Telephone: 610-645-2687.

POSITIONS OPEN

SIX NEUROSCIENCE FACULTY POSITIONS NEUROLOGICAL SCIENCES INSTITUTE Oregon Health Sciences University

The Neurological Sciences Institute is recruiting additional faculty to staff its new research facility on Oregon Health Sciences University's west campus. We invite applications from neuroscientists at the level of **ASSISTANT, ASSOCIATE** or **SENIOR SCIENTIST** whose research complements that of the current faculty (website: www.ohsu.edu/nsi/). Preference will be given to those with extramurally funded programs. All levels of investigation will be considered including molecular, cellular, systems, and behavioral. Research related to hearing is one specific need to be filled.

Our institute is a multidisciplinary center dedicated to advancement of our understanding of the brain and neurological disorders and to application of that understanding to address problems in human health. We are part of a rapidly growing university that is strong in basic and clinical neurosciences. We are located adjacent to the Oregon Regional Primate Research Center and the new Vaccine and Gene Therapy Center.

Applicants should submit curriculum vitae, a statement of research interests, and three letters of recommendation to: **Search Committee, Neurological Sciences Institute, Oregon Health Sciences University, 1120 N.W. 20th Avenue, Portland, OR 97209**. Applications must be received before August 15, 2000; interviews will be conducted in the fall/winter of 2000 for appointments to begin in the fall of 2001. *Oregon Health Sciences University is an Equal Opportunity Employer.*

VISION SCIENTIST DEPARTMENT OF CELLULAR BIOLOGY AND ANATOMY Medical College of Georgia

The Department of Cellular Biology and Anatomy at the Medical College of Georgia invites applications for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Individuals with research expertise in the area of vision research are particularly encouraged to apply. Excellent opportunities exist for collaboration and interaction with other investigators pursuing a broad spectrum of vision research in the areas of cellular, molecular, and biochemical studies of retina, lens, and cornea both within and outside the Department. Qualifications include a Ph.D. and/or M.D. degree and research experience in some aspect of vision research. The successful candidate will be expected to establish and maintain an extramurally funded research program and to contribute to the teaching mission of the Department. Applicants should submit curriculum vitae, selected publications, a letter describing research interests, and the names of at least three references to: **Sylvia B. Smith, Ph.D., Chair, Faculty Search Committee, Department of Cellular Biology and Anatomy, Medical College of Georgia, CB2820, Augusta, GA 30912-2000**. *The Medical College of Georgia is an Equal Employment Opportunity/Affirmative Action Employer.*

SENIOR PROJECT ECOLOGIST THE NATURE CONSERVANCY OF CALIFORNIA Director of Conservation Science/Project Director San Francisco, San Luis Obispo, or San Diego California

Job duties: Provide science-based approaches required to address conservation challenges related to landscape-scale projects. Implement adaptive management conservation, restoration, and monitoring programs. Required: Ph.D. in conservation biology or a related field (emphasis on plant or grazing ecology, exotics; GIS preferred); people oriented; and motivated to achieve tangible results. Full job description at website: www.tnccalifornia.org. Send résumés to: **TNC Science, 201 Mission Street, Fourth Floor, San Francisco, CA 94105**. E-mail: resumes@tnc.org. Indicate location preference.

POSITIONS OPEN

CONSERVATION BIOLOGIST/ REMOTE SENSING SPECIALISTS (REOPENED)

Job titles (two positions): **RESEARCH ASSOCIATE** and **RESEARCH ASSISTANT PROFESSOR**.

Job description: The Missouri Resource Assessment Partnership (MoRAP) within the University of Missouri has an immediate opening for individuals to coordinate remote sensing aspects of various projects for the partnership. The successful candidates will work with colleagues and partners on projects such as land cover classification, land cover change detection, and ecoregion-based conservation inventory and assessment.

Qualifications: Candidates must have experience with ERDAS Imagine, ARC, ArcView, or other image processing and GIS software packages within a UNIX and/or Windows NT environment. Hands-on experience and a B.S. are required for the Research Associate, while a Ph.D. is required for the Research Assistant Professor position. A strong interest in conservation issues is essential. A history of winning grants is a plus. Candidates should be technically skilled and open to challenges. Applications must be received by August 25, 2000. Submit résumé, a copy of transcripts, a list of references, and daytime telephone number to: **Dr. David Diamond, Missouri Resource Assessment Partnership (MoRAP), 4200 New Haven Road, Columbia, MO 65201**. Website: www.cerc.usgs.gov/morap. No phone calls, please.

Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATES HEMATOPOIETIC STEM CELL BIOLOGY

Applications invited for expanding program with new laboratory space in stem cell biology and therapeutics with special interest in mouse models of hematopoiesis and signal transduction pathways involving Src and Notch. Children's Hospital of Pittsburgh and University of Pittsburgh Cancer Institute are among the top NIH-funded institutions with outstanding gene therapy and transplantation programs. Successful candidates (M.D., Ph.D.) will have permanent resident status and be experienced in transgenic mice or murine experimental hematopoiesis. Send curriculum vitae, career goals, and reference names to: **Seth Corey, Scientific Director, Program in Stem Cell Biology and Therapeutics, Children's Hospital, 3705 Fifth Avenue, Pittsburgh, PA 15213**. FAX: 412-692-5723; e-mail: scorey@pitt.edu. More information is available at website: www.pitt.edu/~scorey.

MOLECULAR PHYSIOLOGY OF HEART FAILURE

POSTDOCTORAL POSITIONS available immediately in a multidisciplinary research group to uncover novel mechanisms of heart failure. Ongoing projects in functional genomics and molecular physiology of cardiomyocytes involve molecular cloning, somatic gene transfer, conditional transgenesis, and single cell and whole heart physiology. Self-motivated individuals with strong background in any of the above areas can expect a challenging and well-supported research environment and competitive salary/benefit package. Please send curriculum vitae and references to: **Yibin Wang, Ph.D., Department of Physiology, University of Maryland School of Medicine, 660 West Redwood Street, HH 503, Baltimore, MD 21201**. E-mail: ywang001@umaryland.edu.

POSTDOCTORAL POSITION: A Postdoctoral position is available immediately to study the mechanism and inhibition of protein and lipid glycosylation. Studies focus on the mechanism of these processes and the development of novel inhibitors. Candidates should have a Ph.D. or equivalent in biochemistry, bioorganic chemistry, or molecular biology. Send curriculum vitae and names of three references to: **Dr. Robert Kuchta, Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309-0215**. *The University of Colorado is an Equal Opportunity Employer.*



COLUMBIA UNIVERSITY Cellular and Tissue Engineering



The Department of Biomedical Engineering in the Fu Foundation School of Engineering and Applied Science at Columbia University is seeking to fill a tenure-track faculty position at the Assistant or Associate Professor level in the area of cellular or tissue engineering. Applicants should have a Doctorate in biomedical engineering or a closely related discipline, and should be prepared to establish a vigorous and independent research program.

Applicants should send a complete curriculum vitae, three publication reprints, a statement of research interests, and names of four references to: Professor Michael Sheetz (Chair of Cellular and Tissue Engineering Search), CEPSR 416, Code 8904, 530 W. 120 Street, Columbia University, New York, NY 10027, by January 1, 2001.

Columbia University is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

SYMPOSIA

INTERNATIONAL SYMPOSIUM

"CELLULAR AND MOLECULAR ASPECTS OF THE BIRTH, LIFE AND DEATH OF THE NERVOUS SYSTEM"

Pucón, Chile
October 4-7, 2000

Sponsored by the American Association for the Advancement of Science (AAAS), Ibero-American Molecular Biology Organization (IMBO), International Center for Cancer & Developmental Biology (ICC) and CONICYT (Chile).

Meeting endorsed by the American Society for Cell Biology

DEADLINES

Submission of abstracts for poster presentations	August 1, 2000
Submission of applications for student scholarship	August 15, 2000
Early registration (Conference fee US\$ 250)	August 1, 2000

CONTACT

IMBO Executive Secretary (Attn. Verónica Contreras), e-mail: Imbo@abello.dic.uchile.cl. Fax: (562) 218 6245. Tel.: (562) 678 7224
TO OBTAIN A REGISTRATION AND ABSTRACT FORM
(Registration limited to 180 participants)

Organizers:

Prof. Ricardo B. Maccioni, e-mail: rmaccioni@abello.dic.uchile.cl
Prof. Lester Binder, e-mail: l-binder@northwestern.edu
Dr. Alfredo Cáceres, e-mail: acaceres@immf.uncor.edu

The Meeting is organized by the Millennium Institute for Advanced Studies in Cell Biology and Biotechnology (CBB), Chile, and is designed to bring together leading Neuroscientists to share findings, initiate interactions between graduate students and postdoctoral fellows, and to serve as a nidus to assure future scientific collaboration in the areas covered by this meeting.

Topics: Cellular and molecular aspects of development of the nervous system. Regulation of the axonal/dendritic development. Neuronal Cytoskeleton. Protein sorting processes and signal transduction in the nervous system. Protein Conformational Diseases of the Brain. Nitric oxide and brain machinery.

Atmospheric Trace Gas Data Analyst Environmental Sciences Division

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ORNL also provides an environment that encourages collaborative research and development, and promotes access to the Laboratory's facilities by researchers from other research organizations, industry and academia.

To learn more about opportunities at ORNL, see our Web site at: <http://www.ornl.gov/>

The Environmental Sciences Division (ESD) at the Oak Ridge National Laboratory (ORNL) is seeking candidates for an Atmospheric Trace Gas Data Analyst in the Carbon Dioxide Information Analysis Center (CDIAC). The Center provides data and information support to the US Department of Energy's global change research. The successful candidate will be responsible for the acquisition, quality assurance and documentation of databases and models related to emissions, ambient concentrations and isotopic composition and transport of carbon dioxide and other greenhouse gases. The successful candidate will communicate and interact with researchers regarding all data issues via correspondence, presentation of results at symposia and participation in science team meetings.

This position requires an MS degree, or equivalent experience, and training in atmospheric chemistry or a related field, familiarity with instrumentation used to monitor atmospheric concentrations of trace gases and experience in analyzing large databases. The ability to understand, appreciate and integrate scientific data, a computer background that includes experience with large environmental databases and knowledge of DOS, Windows and Unix operating systems are required, as is a demonstrated capability in oral and written communications. Proven knowledge of database management, statistical and graphics software for the personal computer and workstation is necessary. Experience with FORTRAN and C programming languages, SAS and HTML is highly desired. The ability to compile or initiate databases needed to address specific global-change-related atmospheric research issues is desired, along with a willingness to host and supervise summer undergraduate students to assist in data activities, and a willingness to write proposals to secure funding for specific atmospheric chemistry projects.

Interested candidates should send a current resume, with a list of three or more references, to: Robert M. Cushman, ORNL, PO Box 2008, Oak Ridge, TN 37831-6335; e-mail: cushmanrm@ornl.gov. The deadline for receipt of information is August 18, 2000.

For more information about ESD and CDIAC, please visit our Web sites at:

<http://www.esd.ornl.gov>
<http://cdiac.esd.ornl.gov>

ORNL, a multiprogram research facility managed by UT-Battelle, LLC for the US Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse workforce.



POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY UNIVERSITY OF PENNSYLVANIA

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

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

University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from qualified females and minorities.

CHAIR DEPARTMENT OF PHARMACEUTICAL SCIENCES

School of Pharmacy
State University of New York at Buffalo

The School of Pharmacy at the University of Buffalo invites applications and nominations for the position of Chair, Department of Pharmaceutical Sciences. The Department has 10 faculty members comprising the disciplines of basic and clinical pharmacokinetics and pharmacodynamics, drug delivery, drug transport and disposition, experimental therapeutics, pharmacogenomics, and drug analysis and is expanding in space and numbers of faculty members. Applicants should have a Ph.D. or equivalent degree, recognized success in research and teaching, and potential for faculty leadership in a basic science department. The successful candidate is expected to continue a strong research program in the excellent facilities of the Department and coordinate high-quality undergraduate, graduate, and postgraduate educational training (see [website: www.pharmaceutics.buffalo.edu](http://www.pharmaceutics.buffalo.edu)). The position is available January 1, 2001. Applications will be accepted and reviewed until the position is filled. Please submit curriculum vitae and names and addresses of three references to: **Marilyn E. Morris, Ph.D., Co-Chair, Search Committee, Department of Pharmaceutics, School of Pharmacy, State University of New York at Buffalo, Buffalo, NY 14260. E-mail: memorris@acsu.buffalo.edu.**

The University at Buffalo is an Equal Opportunity Employer/Recruiter.

Faculty positions: two positions open in Department of Neuroscience at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Approximately 25% teaching histology and neuroscience/neuropharmacology/neurophysiology to first-year medical students and 75% research. Applicant must hold an earned Ph.D., D.O., or M.D. degree; must be capable of independent research; and have prior teaching experience at the graduate level. Applicants should send curriculum vitae, a statement of research interests, and the names of three references to: **Dr. Brian H. Hallas, Chairman of Neuroscience, New York College of Osteopathic Medicine, Old Westbury, NY 11568. The New York College of Osteopathic Medicine is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

RESEARCH ANALYST, HEALTH ECONOMICS AND OUTCOMES RESEARCH SmithKline Beecham Pharmaceuticals

SmithKline Beecham, an international producer of pharmaceuticals and consumer health care products, is seeking an individual with a background in pharmaceuticals and biostatistics to serve as Research Analyst, Economics and Outcomes Research, at its research and development facility in Collegeville, Pennsylvania. Principal duties include to perform predevelopment marketing analyses to determine the medical condition or disease state for which a new compound is best suited and to design and to carry out pharmacoeconomic analyses and studies to determine pharmaceutical cost effectiveness and the effects of pharmaceuticals on population-level health outcomes.

Minimum requirements are a Ph.D. in pharmaceuticals and M.S. in biostatistics and at least two years of experience in the job offered or two years of experience in the related occupation of biostatistical pharmaceutical research, which shall include experience in (1) designing, conducting, analyzing, and interpreting biostatistical pharmaceutical research studies; (2) carrying out regression and ANOVA analyses; and (3) applying and merging pharmaceuticals and statistics to carry out and evaluate pharmaceutical cost-effectiveness research. Must also be proficient in the use of UNIX and NT systems and in statistical programming, including SAS/BASE, SAS/MACRO, SAS/STAT, SAS/GRAPH, and SPSS.

SmithKline Beecham offers a competitive compensation/benefits package. For confidential consideration, please forward résumé and salary requirements to: **SmithKline Beecham Pharmaceuticals, Attention: Robertino Mera, Job Code: 00712K, Mail Code: FP0715, One Franklin Plaza, Philadelphia, PA 19101. We are an Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.**

RESEARCH SCIENTIST POSITIONS TRIAD THERAPEUTICS SAN DIEGO, CALIFORNIA

Triad Therapeutics, a biopharmaceutical company in San Diego ([website: www.triadtherapeutics.com](http://www.triadtherapeutics.com)), seeks Scientists in microbiology and in synthetic organic chemistry.

Ph.D. MICROBIOLOGIST: Candidates must have experience using animal models of bacterial disease. Experience in drug screening or in bacterial genetics helpful. Candidates should have a strong record of publication and/or industrial experience in the field. Send curriculum vitae to **e-mail: jobs.biology@triadtherapeutics.com.**

Ph.D. ORGANIC CHEMISTS: The applicant must have a solid background in organic synthetic chemistry demonstrated by a strong record of publications and proficiency in multistep synthesis and current spectroscopic techniques. The candidate will be responsible for design and production of combinatorial libraries as well as lead generation and optimization. Send curriculum vitae to **e-mail: jobs.chemistry@triadtherapeutics.com.**

ASSISTANT/ASSOCIATE PROFESSOR (ORAL BIOLOGY AND MEDICINE)

The University of California at Los Angeles School of Dentistry seeks highly qualified applicants with expertise in cancer immunology for an appointment at the Assistant (tenure track) or Associate Professor (tenured) rank, available immediately. Responsibilities include instruction of predoctoral and graduate students and independent and collaborative research. The candidate must have Ph.D. or D.D.S. (D.M.D.)/Ph.D., have record of published research in immunology/allergy, and extramural funding is required. Applicants should submit curriculum vitae, a research statement, and names of three references by August 21, 2000, to: **Dr. Robert Chiu, Chair of Search Committee, UCLA School of Dentistry, 63-050 CHS, Box 951668, Los Angeles, CA 90095-1668. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants are encouraged to apply, including women and minorities.**

POSITIONS OPEN

BIOLOGICAL CLOCKS GENOMICS AT TEXAS A&M UNIVERSITY

Funding is available for a multi-investigator program for comparative analysis of genes involved in biological timing in diverse species employing state-of-the-art technologies such as DNA microarrays, real-time gene expression, and concurrent electrophysiological analyses. We seek **PRE- AND POST-DOCTORAL SCIENTISTS** interested in studying biological clocks with a multidisciplinary and comparative perspective to address fundamental properties of clock function and the phylogenetic relationships among clock components of diverse organisms. Individual scientists supervising projects within the program include:

- (1) **Dr. Deborah Bell-Pedersen**, filamentous fungi
- (2) **Dr. Vincent M. Cassone**, vertebrates, particularly birds
- (3) **Dr. David J. Earnest**, mammals, immortalized cell-lines
- (4) **Dr. Susan S. Golden**, cyanobacteria
- (5) **Dr. Terry L. Thomas**, functional genomics and bioinformatics
- (6) **Dr. Mark J. Zoran**, real-time imaging and electrophysiology

Visit our [website: http://www.bio.tamu.edu/clocks/](http://www.bio.tamu.edu/clocks/). Postdoctoral candidates should send a letter of interest; curriculum vitae; and the names, e-mail addresses, and telephone numbers of three references to: **Biological Clock Program, Department of Biology, Texas A&M University, College Station, TX 77843-3258. Attention: Ms. Lieu Jean. Pre-doctoral candidates should send inquiries to: Graduate Advisor, Department of Biology, Texas A&M University, College Station, TX 77843-3258. Please state your interest in participating in the Biological Clocks Program.**

CANCER PHARMACOLOGY FACULTY POSITIONS DARTMOUTH MEDICAL SCHOOL

The Department of Pharmacology and Toxicology seeks applicants for tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level. We are interested in candidates with an exciting research program in cancer pharmacology, such as in basic aspects of molecular oncology or novel therapeutic targets. Strong ties exist with the Norris Cotton Cancer Center, an NCI-designated comprehensive cancer center. The successful candidate will join a department with diverse expertise in pharmacology and toxicology ([website: http://www.dartmouth.edu/dms/pharmtox/](http://www.dartmouth.edu/dms/pharmtox/)). Candidates should have a Ph.D. and/or M.D. degree(s) and a productive academic record. Submit curriculum vitae, a statement of research interests and accomplishments, and names of at least three references to: **Dr. Alan Eastman, Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755. Review of applicants will begin on September 1, 2000. Dartmouth, an Equal Opportunity/Affirmative Action Employer, strongly encourages applications from women and minority candidates.**

POSTDOCTORAL FELLOWSHIPS IN NEURAL STEM CELL RESEARCH University of Nebraska Medical Center

University of Nebraska Medical Center is the premier medical research institute in the state of Nebraska. Two positions are immediately available in neural stem cell research to isolate, characterize, and genetically modify neural stem cells and study the neuroregenerative potential of ES cells and other tissue stem cells. We are seeking applicants with experience in cell and molecular biology and cell culture. Applicants with expertise in electrophysiology will be considered for one of the positions. Send résumé and three letters of reference to: **Iqbal Ahmad, Associate Professor, University of Nebraska Medical Center, Pharmacology and Ophthalmology, 987691 Nebraska Medical Center, Omaha, NE 68198-7691. Telephone: 402-559-4091; FAX: 402-559-5514. Affirmative Action/Equal Opportunity Employer.**

The 11th Takeda Science Foundation Symposium on Bioscience
= COE International Conference =

**Frontiers in Molecular Motors Research:
From Gene • Structure • Dynamics to Functions**

Announcement

1. Dates:

Friday, November 17 - Monday, November 20, 2000

2. Site:

Awaji Yumeburai International Conference Center,
Hyogo, Japan

3. Organizers:

Hirokawa, N. (University of Tokyo)
Yanagida, T. (Osaka University)

4. Topics:

- I. Structure and Motile Mechanism of Kinesins
- II. Organelle Transport and Kinesins
- III. Mitosis and Kinesins
- IV. Organelle Transport and Dyneins
- V. Structure and Motile Mechanism of Myosins

5. Invited Speakers:

Allan, V.J./Astumian, R.D./Bagshaw, C.R./Block, S.M./
Bloom, G./Brady, S.T./Brenner, B./Cleveland, D.W./Cooke,
R./Cross, R.A./Endow, S.A./Fletterick, R./Gelfand, V.L./
Goldman, Y.E./Goldstein, L.S.B./Hackney, D.D./Hirokawa,
N./Hollenbeck, P.J./Holzbaur, E.L.F./Howard, J./Irving, M./
Mandelkow, E./McIntosh, R./Milligan, R.A./Mitchison,

T./Molloy, J.E./Oster, G.F./Prost, J.R./Reisler, E./
Rosenbaum, J.L./Saxton, W.M./Schliwa, M./Schnapp, B.J./
Scholey, J.M./Schroer, T.A./Spudich, J.A./Sweeney, H.L./
Taylor, E.W./ Thomas, D.D./Trybus, K.M./Vale, R.D./
Vallee, R.B./Vernos, I./Warshaw, D.M./Yanagida, T.

6. Call for Poster Abstracts

Participants who wish to make poster presentations are requested to provide their name, affiliation and presentation title to the Secretariat by August 31. (Deadline for submission of Poster Abstracts; September 11, 2000.) The Program Committee will make the final decisions on the acceptance of Abstracts and successful applicants will be provided with travel support of US \$1,000.

7. Application and Registration:

Those who wish to attend the conference should contact:

**Secretariat for the 11th Takeda Science
Foundation Symposium on Bioscience**
Phone: +81-6-6229-2555 Fax: +81-6-6221-3071
Email: takedasci@congre.co.jp
Registration on the conference Web site:
<http://www.congre.co.jp/takedasci/>
Deadline for registration: October 6, 2000

EUROPEAN OPPORTUNITIES



INSTITUT PASTEUR

The PASTEUR INSTITUTE of Paris
25 Rue du Dr Roux
75724 Paris Cedex 15

POSTDOCTORAL POSITIONS AVAILABLE

In the framework of new research programmes, the Pasteur Institute of Paris will be creating, 10 Postdoctoral grants to satisfy the demands of Transversal Research Programs. These postdoctoral grants will be available from October 1, 2000. The scientific domains concerned are the following : Cellular Biology, Imaging, Electrophysiology, Cellular signalisation, Microbiology, Infectious diseases, Biochemistry and Molecular biology, Sequence analysis and related techniques

The postdoctoral grants will be attributed for a period of 21 months, with the possibility of renewal for a further 12 months, depending on the scientific results obtained.

The grants awarded will be between 11,000 and 13,000 French francs per month gross, depending upon the experience of the candidates

Requests, to be received by the Pasteur Institute before August 31, 2000, should include : a curriculum vitae, a list of publications, 2 letters of recommendation.

The selection of candidates will be by merit and scientific quality.

Request should be addressed to : Jean Claude Mazié, Director of Scientific Careers, Pasteur Institute Ph : 33 1 45 68 80 06, Fax : 33 1 40 61 31 59, jcmazie@pasteur.fr

Cardiovascular Disease Research Program Meharry Medical College

Meharry Medical College has four NIH-supported positions available for the development of a program in cardiovascular disease. This program is supported by the National Center for Research Resources (NCRR) of the National Institutes of Health (NIH). Appointments will be made in both clinical and basic departments at the institution. Opportunities for collaboration with scientists at Vanderbilt University will be encouraged. Competitive start-up packages will be available with funding for equipment, supplies, technical support, and travel.

This cardiovascular disease focus of the Research Centers in Minority Institutions (RCMI) program at Meharry Medical College has developed as a result of the institution's continuing commitment to eliminate diseases that disproportionately affect African Americans. Targeted faculty include individuals working in cardiovascular disease and other areas such as diabetes, kidney disease, sickle cell disease, hypertension, and stroke.

Interested faculty should submit their letter of interest and the names of three references by September 1, 2000. Preference will be given to individuals with strong research backgrounds and productive postdoctoral experiences. Level of appointment will be commensurate with experience. This announcement will remain open until all positions are filled.

Please send requested information to:

George C. Hill, Ph.D.
Program Director- RCMI Program
Vice President for Sponsored Research
Meharry Medical College
Department of Microbiology
1005 D. B. Todd Blvd.
Nashville, TN 37208
(615) 327-6193- voice
(615) 327-5621- fax
gchill@mmc.edu

Meharry Medical College is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION is available immediately to study cellular and molecular aspects of peptide hormone action and structure-function of membrane receptors in cardiovascular regulation. Strong background in one or more of the following areas: molecular cloning, gene expression, site-directed mutagenesis, and/or gene transfer technology is highly desirable. Individuals having strong background in signal transduction and transcriptional regulation of gene in cardiovascular function will also be considered. Qualified candidates (Ph.D. or M.D.) should send curriculum vitae and three references to: **Dr. K. N. Pandey, Department of Physiology SL-39, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112. FAX: 504-584-2675; e-mail: kpandey@mailhost.tcs.tulane.edu. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in comparative genomics/microbial genome evolution/lateral gene transfer: recent Ph.D. with computational biology, molecular microbiology, or evolutionary background. Research will involve (1) use of microbial genome data to investigate importance of and constraints on lateral gene transfer in microbial evolution and/or (2) experimental gene transfer in protists. Contact: **W. Ford Doolittle, Biochemistry and Molecular Biology, Dalhousie University, Halifax, Nova Scotia B3H 4H7 Canada. FAX: 902-494-1355; e-mail: ford@is.dal.ca.**

POSTDOCTORAL POSITION in molecular virology/HIV research. Positions available immediately for recent Ph.D. to work in the areas of HIV pathogenesis in the central nervous system and HIV vaccine development. Experience in molecular, biochemical, and/or immunology techniques preferred. Send curriculum vitae and names/contact information for three references to: **Jay Rappaport, Ph.D., Professor, Center for Neurovirology and Cancer Biology, Temple University, 1900 North 12th Street (015-96), Philadelphia, PA 19122. E-mail: jayrapp@astro.temple.edu.**

POSTDOCTORAL POSITION is available to study immune mechanisms and cellular response to *Cryptosporidium parvum* antigens. Candidate should have a Ph.D. in microbiology or related field and experience in immunologic techniques. Experience in molecular biology (e.g., gene expression and protein purification) also helpful. *Must be U.S. citizen.* Send curriculum vitae to: **Jan R. Mead, Ph.D., Atlanta VA Medical Center, 1670 Clairmont Road, Decatur, GA 30033. FAX: 404-728-7780; e-mail: jmead@emory.edu.**

POSTDOCTORAL POSITION available to participate in one or more of three projects: myosin-I-beta in hair cell adaptation, intercellular junction proteins and Ras signaling, and myosin-V in organelle transport. Send curriculum vitae and names of three references to: **Dr. John A. Mercer, McLaughlin Research Institute, 1520 23rd Street South, Great Falls, MT 59405. E-mail: umbjm@montana.edu; website: www.montana.edu/wwwmri/Indlkgp/John.html.**

POSTDOCTORAL POSITION available immediately. The successful applicant will design and study cell-type specific retroviral vectors *in vitro* and *in vivo* (huSCID mouse) for gene therapy of HIV-1 infection. Applicant should have a solid background in molecular biology (e.g., cloning, tissue culture). Please send résumé to: **Dr. Ralph Dornburg, Thomas Jefferson University, Division of Infectious Diseases, Jefferson Alumni Hall, 1020 Locust Street, Philadelphia, PA 19107.**

POSTDOCTORAL POSITION is available in the Department of Biochemistry and Molecular Pharmacology of Thomas Jefferson University. This position is supported by a NIH training grant and is in the area of signal transduction. Candidates should have a Ph.D. and be U.S. citizens or possess a green card. Please send curriculum vitae and three letters of reference to: **Dr. Gerald Litwack, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. Equal Opportunity Employer.**

POSITIONS OPEN



Marshfield Medical Research Foundation is expanding its **POSTDOCTORAL FELLOWSHIP** program. Qualifications include a Ph.D., Sc.D., or M.D. in the discipline or sciences that are relevant to the areas of Fellowship interest listed below.

Infection epidemiology: **Edward Belongia**
Cancer cell biology: **James Burmester**
Infectious disease: **Mark Borchardt**
Reproductive toxicology: **Anne Greenlee**
Metabolic diseases: **David Konecki**
Childhood injury prevention: **Barb Lee**
Childhood injury prevention: **Barb Marlena**
Zoonotic pathogens: **Kurt Reed**
Health economics: **John Schmelzer**
Molecular biology: **Sanjay Shukla**
Human genetics: **James Weber**

Marshfield Medical Research Foundation is situated in a central Wisconsin community of over 20,000 with abundant opportunities for outdoor and cultural activities. Marshfield is within short driving distances of Madison, Milwaukee, and Minneapolis. Interested candidates should submit cover letter, curriculum vitae, and indicate area of interest from the above list to: **Human Resources Representative, 1000 North Oak Avenue, Marshfield, WI 54449. Telephone: 715-387-5341; FAX: 715-387-5400.** Additional information about the position, Marshfield Clinic, and Marshfield Medical Research Foundation can be found at website: **www.marshfieldclinic.org.**

POSTDOCTORAL POSITIONS PANCREATIC DEVELOPMENT AND NEOPLASIA

Johns Hopkins University School of Medicine

Positions immediately available in NIH-funded laboratory investigating epithelial stem cells in pancreatic development and neoplasia. The Pancreatic Cancer Study Group at Johns Hopkins University School of Medicine is expanding its basic research effort to include studies of epithelial stem cells in pancreatic development and neoplasia. Current research projects include mechanisms of differentiation and dedifferentiation in exocrine pancreas, identification of stem cell precursors in pancreatic tumorigenesis, and investigation of notch signaling in pancreatic neoplasia. These studies rely heavily on transgenic mouse models, *in vitro* organ culture, and tissue-specific gene deletion using Cre-lox methodology. Emphasis is placed on novel methods for lineage tracing during normal pancreatic development as well as during pancreatic tumorigenesis. Candidates should have strong background in molecular, cellular, or developmental biology, with previous gene targeting experience preferred. Please forward curriculum vitae and three letters of reference to: **Steven D. Leach, Neumann Professor in Pancreatic Cancer, Departments of Surgery and Oncology, Johns Hopkins University, 600 North Wolfe Street/Carnegie 686, Baltimore, MD 21287-6686.**

POSTDOCTORAL/ASSOCIATE RESEARCH POSITION available in vascular biology involving actin-signaling pathways in macrophages using both cell culture and macrophage-specific knockout mouse models (Cre-lox system). Experience in cytoskeletal biology, signal transduction, and advanced molecular biology desirable. Send curriculum vitae and three references to: **Dr. Ira Tabas, Division of Molecular Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: iat1@columbia.edu. We are an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

PHILLIP G. NELSON, M.D., PH.D. LABORATORY OF DEVELOPMENTAL NEUROBIOLOGY

POSTDOCTORAL POSITION for an intramural research training award or a Visiting Fellowship. The molecular and cell biological mechanisms underlying activity-dependent synapse elimination are being investigated using biochemical, electrophysiological, and high-resolution imaging methods. Salary: over \$28,000 per annum, depending on experience. Position available October 1, 2000. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Contact: **Section on Neurobiology, Laboratory of Developmental Neurobiology, NICHD, Building 49, Room 5A38, MSC 4480, Bethesda, MD 20892. Telephone: 301-496-1463; FAX: 301-496-9939; e-mail: pgnelson@codon.nih.gov. NIH is an Equal Employment Opportunity Employer.**

POSTDOCTORAL POSITIONS

Postdoctoral positions are available immediately in the Laboratory of Molecular Biology at the University of Wisconsin-Madison for individuals with a Ph.D. in molecular biology, genetics, or related discipline. Studies will involve genetic, molecular, biochemical, and cytological approaches to understand RNA synthesis and decay pathways in the yeast *Saccharomyces cerevisiae*. For more information, go to the laboratory website: **http://www.wisc.edu/genetics/CATG/culbertson/index.html.** Send a statement of interest and curriculum vitae to: **Michael R. Culbertson; e-mail: mrculber@facstaff.wisc.edu. Mail to: R. M. Bock Laboratories, 1525 Linden Drive, University of Wisconsin, Madison, WI 53706.**

POSTDOCTORAL RESEARCH SCIENTIST COLUMBIA UNIVERSITY

Positions available immediately for recent Ph.D. with training in cell and molecular biology to work on projects involving (1) mechanisms of radio resistance and cell cycle control, using mammalian model systems; and (2) mechanism of radiation and chemically induced neoplastic transformation of human epithelial cells. Send curriculum vitae, reprints, and names of three references to: (1) **Dr. Howard B. Lieberman** and (2) **Dr. Tom K. Hei, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. We are an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION in cochlear physiology. Available immediately to study the relationship between the responses to sound of auditory-nerve fibers and the vibrations of the basilar membrane. Please send curriculum vitae and contact information for three references to: **Dr. Mario A. Ruggero, Department of Communication Sciences and Disorders, Northwestern University, 2299 North Campus Drive, Evanston, IL 60208-3550. Telephone: 847-491-3180; e-mail: mruggero@northwestern.edu. Northwestern University is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE. A two-year Postdoctorate in wetland ecology/biogeochemistry is available October 1, 2000, at Archbold Biological Station in south Florida. Information on the position is available at website: **http://www.archbold-station.org/abs/staff/jobs.htm.** Send letter of application, curriculum vitae, and contact information for three references to: **Dr. Patrick Bohlen, MacArthur Agroecology Research Center, 300 Buck Island Ranch Road, Lake Placid, FL 33852.**

POSTDOCTORAL POSITION available to research sensory transduction mechanisms in parametrium. Experience in electrophysiological techniques is advantageous. Send summary of research experience and interests to: **Robin R. Preston, Ph.D., Pharmacology and Physiology, MCP Hahnemann University, 245 North 15th Street, MS 488, Philadelphia, PA 19102. FAX: 215-762-2299. Equal Opportunity Employer.**

*Future
is our
Mission*

Forschungszentrum Jülich



We are an interdisciplinary research center funded by the federal and state government. The 4200 members of our staff are developing innovative solutions to problems of public interest in the research areas of „Matter“, „Energy“, „Information Technology“, „Life Sciences“ and „Environmental Sciences“. As a member of the Hermann von Helmholtz Association of German Research Centers (HGF) we are committed to issues of concern to our society.

At Forschungszentrum Jülich GmbH and Heinrich Heine University, Düsseldorf, a vacancy for a

UNIVERSITY PROFESSOR (C4) for Informatics/Bioinformatics

has to be filled as soon as possible. For the period until July 2004 this will be a joint appointment by the two above institutions according to the so-called Jülich model. The future head of institute will be expected to lead a scientific bioinformatics working group at the John von Neumann Institute for Computing in Forschungszentrum Jülich. From August 2004 the position will be located at the Mathematical-Scientific Faculty of Düsseldorf University. A close linkage to Research Centre Jülich will continue to exist.

The applicant is expected to participate from the very beginning in training in the field of informatics at Heinrich Heine University, Düsseldorf, and to lead an internationally competitive research unit. She/he will be working in a branch of informatics with pronounced relations to biology. Applications from the domain of bioinformatics are particularly welcome.

The salary will conform to the C4 scale of the German Civil Service. Candidates are required to have a "Habilitation" or equivalent scientific qualifications as well as the ability to head an institute and experience in teaching at the university level. Research Centre Jülich would like to increase the number of women in leading positions and therefore especially encourages qualified women to apply. Applications comprising a curriculum vitae, list of publications and a short summary of scientific achievements should be sent by September 30, 2000 to

**Vorstand der Forschungszentrum Jülich GmbH
D-52425 Jülich
Germany**

Internet: www.fz-juelich.de

More detailed information may be obtained from Forschungszentrum Jülich GmbH (tel.: +49/24 61/61 30 01) and from the Dean of the Math.-Scientific Faculty of Heinrich Heine University, Düsseldorf (+49/211/8 11 21 93).

POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** are available immediately to participate in a NIH-funded study of the serotonergic system in the medulla oblongata in victims of the sudden infant death syndrome (SIDS), the leading cause of postneonatal infant mortality. Studies in this laboratory have demonstrated abnormalities of a network of medullary serotonergic neurons in SIDS victims that are related to respiratory drive, autonomic function, and chemoreception (*J. Neuropathol. Exp. Neurol.* 59:377, 2000). Related studies in progress in the laboratory include anatomic analysis of the development of the serotonergic system directly in the human brain and of the human rhombic lip, the putative source of at least some medullary serotonergic neurons. Experience in techniques of chemical neuroanatomy and molecular biology are desirable, e.g., immunocytochemistry, *in situ* hybridization, Dil. Send curriculum vitae and names of three references to: **Dr. Hannah C. Kinney, Division of Neuroscience, Children's Hospital and Harvard Medical School, Boston, MA.** FAX: 617-738-1542.

POSTDOCTORAL POSITION COLUMBIA UNIVERSITY NEW YORK U.S.A.

NIH-sponsored Postdoctoral position available immediately for candidate with expertise in biochemistry/molecular biology to study cell cycle regulation by the c-AMP/PKA pathway using Xenopus as a model system. Please send curriculum vitae, summary of research interests, and the names and e-mail addresses of three references to: **Dr. Jean Gautier, Department of Genetics and Development and Department of Dermatology, Columbia University, VC15-204, 630 West 168th Street, New York, NY 10032.** E-mail: jg130@columbia.edu. Columbia University is an Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available to study the neurochemical effects of abused substances including nicotine. *In vivo* microdialysis, immunocytochemistry, and *in situ* hybridization will be used to determine the action of self-administered drug on selected brain regions involved in drug reward and stress responses. Applicants must have a strong background in neuropharmacology and substantial experience with behavioral, electrophysiological, or neurochemical approaches to investigating CNS function in the intact animal. Send or FAX curriculum vitae, three letters of reference, and a statement of experience and specific research goals to: **Dr. Burt Sharp, Chairman, Department of Pharmacology, The University of Tennessee, 874 Union Avenue, Memphis, TN 38163.** FAX: 901-448-7206.

Several NIH grant-supported **POSTDOCTORAL POSITIONS** are available to study (1) apoptosis regulation by mitochondria and arachidonic acid metabolic pathways (*PNAS* 93:5241, 1996; *Cancer Res.* 58:3466, 1998; 59:4343, 1999) and (2) molecular mechanisms controlling progenitor cell maturation, proliferation, differentiation, and senescence (*JCB* 148:971, 2000). These studies involve routine molecular biology as well as transgenic/knockout animals. Interested applicants should please submit curriculum vitae and addresses (mailing and e-mail) and telephone/FAX numbers of three references to: **Dr. Dean Tang, University of Texas M. D. Anderson Cancer Center, Science Park Research Division, Park Road 1C, Smithville, TX 78957.** E-mail: dtang@sprd1.mdacc.tmc.edu; FAX: 512-237-2475.

POSTDOCTORAL AND RESEARCH ASSOCIATE positions available to conduct research on the role of sphingolipids as signal transducers during stress responses in *Saccharomyces cerevisiae* (*J. Biol. Chem.* 272:30196; 273:19437; *Ann. Rev. Biochem.* 67:27). Experience with yeasts, lipids, enzymology, or signal transduction is required. Send résumé with names of three references to: **Robert Dickson, Department of Biochemistry, University of Kentucky, Lexington, KY 40536-0298.** The University of Kentucky is an Equal Opportunity Employer and encourages applications from qualified women and minorities.

POSITIONS OPEN

GENOMICS AND BIOINFORMATICS OPPORTUNITIES AT THE UNIVERSITY OF WISCONSIN

New Postdoctoral positions are now available in the NIH-funded, well-established Genome Project for research in (1) whole genome sequencing of bacterial pathogens, (2) genome sequence analysis/bioinformatics, (3) functional genomics, and (4) prokaryotic genome evolution. The project goals are to sequence the genomes of several *E. coli* pathogens and related disease-causing bacteria to identify new genes encoding potential virulence factors by comparing and contrasting the content and organization of different genomes. Functional analysis of genes is accomplished by global gene expression analysis using DNA microarrays; construction of site-specific mutations; and high-throughput cloning, expression, and phenotyping techniques.

Required: Candidates must have a Ph.D. in genetics, molecular biology, microbiology, or related biological discipline. Ideal candidates would have a sound background in biology and be familiar with DNA analysis software and database searching tools. Strong recombinant DNA skills and knowledge of bacterial genetics are required for the functional genomics projects. Evolutionary or computational biologists interested in bacterial genomics are also encouraged to apply. Computer programming skills are advantageous for all positions.

The University of Wisconsin provides an outstanding research environment within the newly formed Genome Center. World-class facilities and competitive benefits are offered. Candidates should please send a letter of application, résumé, and names plus contact information for three references to: **Dr. F. R. Blattner, Laboratory of Genetics, University of Wisconsin-Madison, 445 Henry Mall, Madison, WI 53706.** E-mail applications are acceptable (preferably in MS Word) to e-mail: ecoli@genome.wisc.edu.

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

IMMUNOLOGY POSTDOCTORAL POSITION University of Texas Health Science Center at Houston

An NIH-funded **POSTDOCTORAL FELLOWSHIP** is available immediately to work in any of several areas of immunology primarily (although not exclusively) relating to the intestinal immune system. Projects include characterization of molecular and cellular events of T cell activation, studies of acute and chronic intestinal inflammation, and analyses of the role of neuroendocrine hormones in the regulation of peripheral immunity. Candidates should be trained in immunology, infectious disease microbiology, and/or endocrine biology; have knowledge of basic techniques of molecular/cellular biology and protein chemistry; and be familiar with the use and application of flow cytometry. Send curriculum vitae and names and addresses of three references to: **Dr. John R. Klein, University of Texas Health Science Center, Department of Basic Sciences, Dental Branch Room 4.133, 6516 John Freeman, Houston, TX 77030.** FAX: 713-500-4500; e-mail: jklein@mail.db.uth.tmc.edu. The University of Texas is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR RESEARCH, TENURE TRACK

The Center for Liver Diseases at the Baylor College of Medicine is looking for an established Ph.D. Scientist to pursue basic research in hepatology. Expertise in hepatobiliary transport, signal transduction, and regulation of gene expression will be highly valued. Extensive collaborations are available within the Texas Medical Center. Please send curriculum vitae to: **Saul J. Karpen, M.D., Ph.D., Director, Texas Children's Hospital Center for Liver Diseases.** E-mail: skarpen@bcm.tmc.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION CHAO FAMILY COMPREHENSIVE CANCER CENTER Department of Medicine University of California, Irvine

A Postdoctoral position is available to study the role of the WNT signal transduction pathway in human malignancies. Opportunities for purely basic and also translational research exist through a collaborative research program in the Division of Hematology/Oncology, Department of Molecular Genetics, and Department of Developmental and Cell Biology. Ph.D. applicants should submit a cover letter indicating research interests and expertise, curriculum vitae, and names of three references to:

Randall F. Holcombe, M.D.
Chief, Division of Hematology/Oncology
UCI Medical Center
101 The City Drive
Building 23, RT 81, Room # 244
Orange, CA 92868
E-mail: Rholcomb@uci.edu

University of California, Irvine, is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST Yale University School of Medicine

Applications are invited for two positions in cancer research; one position is to conduct research on anticancer multidrug resistance using gene knockout animals and overexpressing cell lines, and the other is to measure drug-activating enzymes in transfected overexpressing cell lines and repair of DNA lesions. Experience in molecular and cellular biology, biochemistry, drug transport, and/or murine animal models desirable. Applicants must have a Ph.D. or M.D./Ph.D. Send curriculum vitae and bibliography, a brief description of research experience, and the names of three references to: **Dr. Alan C. Sartorelli, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8066.** Yale University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. An opening is available for a Ph.D. in immunology. The research will be focused on suppressing antibody formation to human Factor VIII in hemophilia A mice. This is a model for the treatment of human hemophiliacs who also generate Antifactor VIII. We will use antibodies to B7 that are infused with Factor VIII to suppress the primary response. Secondary responses are more difficult to eradicate, but we observed that there is a significant suppression of the antibody titer. Our facility has a large immunology department with diverse interests. The applicant should send curriculum vitae, a summary of present research interests, and references from three individuals that include telephone numbers. Good English writing skills would be preferred. The salary depends on years and quality of experience. Reply to: **Dorothea Scandella, Ph.D., American Red Cross, Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855.**

POSTDOCTORAL POSITION

A Postdoctoral Associate position is available to conduct research on iron starvation stress in the bacterial pathogen *Bordetella pertussis*. Applicants must hold the Ph.D. degree and have experience in bacteriology and molecular biology. Preference will be given to applicants with demonstrated expertise in protein structure-function analysis and prokaryotic gene regulation at the transcriptional level including molecular characterization of protein-DNA interactions. Send a letter of interest; curriculum vitae; reprints of relevant publications; and the names, addresses, and telephone numbers of at least three references to: **Dr. Sandra K. Armstrong, Department of Microbiology, University of Minnesota, MMC 196, 420 Delaware Street S.E., Minneapolis, MN 55455.** The University of Minnesota is an Equal Opportunity Educator and Employer.

Immuno-Designed Molecules (IDM)

a biopharmaceutical company and European leader
in cellular immunotherapy is recruiting its

MEDICAL DIRECTOR FOR NORTH AMERICA

based in Montreal (Canada)

Responsible for the design of the development plans for cell therapy, supervise the implementation of clinical research projects on a global basis in conjunction with the Paris based team.

He/she will define a North America registration strategy in preparing expert reports and defending product submissions with HPB and FDA authorities. He/she will establish relationship with clinicians and identify the leaders likely to work with IDM.

We are looking for a MD or PhD in clinical sciences in related fields with significant experience (10-12 years) in clinical investigation or in clinical pharmacology. Working experience in a multicultural environment, ability to travel internationally, effective interpersonal communication and negotiating skills, and multilingual capability (fluent French and another European language) are required.

2 CLINICAL PROJECT MANAGERS

based in Paris (France)

Responsible for IDM's preparation, implementation and follow up of clinical studies in Europe and North America.

Managers will discuss projects with experts and potential investigators, write protocols in close relation with IDM's pre-clinical research team and will be responsible for writing reports.

We are looking for MDs or PhDs with 3 to 5 year experience in clinical research and strong communication and organizational skills; fluent in French (2nd European language will be appreciated).

More information about IDM is available on www.idm-biotech.com. If you want to join a rapidly evolving company, and use your knowledge to adapt clinical trials to new technology, **please send your CV to IDM, 172 rue de Charonne, 75011 Paris (France) or to clinic@idm-biotech.com**

EUROPEAN OPPORTUNITIES

Givaudan[®]

Givaudan is the worldwide leader in the field of flavors and fragrances and has subsidiaries in over 100 countries.

Postdoctoral Position

This position in the chemosensory field is available at Givaudan Dubendorf Ltd. in Switzerland.

The successful applicant would join a molecular biology laboratory studying G-protein-coupled receptors which is located in an excellent environment for scientific interactions and interdisciplinary collaborations in Basel (Switzerland).

Applicants should have a Ph.D., and a solid background in molecular biology and cell biology, including a sound knowledge of signal transduction. Experience in data mining of genome databases would be of advantage.

Are you interested in this position? If so, please send us your application.

For more information you might call Ms. Ursula Egg, phone ++41 1 824 22 32 or via e-mail ursula.egg@givaudan.com.

Givaudan Dübendorf Ltd. Fragrance Research
Überlandstrasse 138 CH-8600 Dübendorf
T +41 1 824 24 24 www.givaudan.com

EUROPEAN OPPORTUNITIES

THE UNIVERSITY of York

DEPARTMENT OF BIOLOGY

FOUR NEW POSITIONS IN THE BIOSCIENCES

The University of York is undertaking a major development in the Biosciences made possible by £21 million funding from the Joint Infrastructure Fund (JIF) to the Department of Biology for new research laboratories, a new technology facility and substantial new capital equipment and support facilities. This development enhances the position of the Department of Biology (RAE 5; TQA 24) as a leading UK centre for research and teaching across the spectrum of modern biology. The Structural Biology Laboratory of the Department of Chemistry will occupy part of the new laboratories, promoting new collaborative programmes at the interface of biology and chemistry.

We invite applications for the following posts, all of which will play major roles in developing this integrated research agenda. New laboratories will be available to all four posts.

CHAIR IN BIOCHEMISTRY (Ref: 12/1005)

The successful candidate for this new professional appointment will have particular interests in biomedical and biomolecular sciences. The Professor will provide academic leadership in research and teaching across the biomedical and biochemical expertise in the Department of Biology, as well as spearheading new multi-disciplinary initiatives in biomolecular sciences, including likely activities in bioinformatics, protein structure and protein engineering.

Minimum salary £37,493 per annum.

LECTURESHIP IN PLANT SCIENCES (Ref: 12/3027)

The successful candidate for this new post will have interests in plant cell and molecular biology and will be using genetical approaches to understand fundamental aspects of plant biology. The candidate's research will complement existing strengths in developmental genetics, microbial interactions, transport and metabolic control.

Salary range £18,731 - £30,967 per annum (Lecturer Grade A-Grade B).

SMITH & NEPHEW LECTURESHIP (Ref: 12/3028)

This is a 5 year position in the Bone and Joint Research Group within the Department of Biology, funded by Smith and Nephew, the World Healthcare group, whose Group Research Centre is in the Science Park on the University campus. The lecturer will be expected to undertake a vigorous research programme and will be given reduced teaching and administrative responsibilities. The successful candidate should either have proven ability as an autonomous and independent investigator, or be ready to make that transition, and have interests that are complementary to those of the group. Current research includes glutamate signalling in bone, the regulation of bone mass by mechanical loading, the role and functions of Notch receptors and their ligands in bone, and the role of acetyl cholinesterase as a bone matrix protein. Individuals with expertise in those areas from non-skeletal backgrounds, or in musculoskeletal biology/tissue engineering, and with significant expertise in cell and molecular biology are encouraged to apply.

Salary range £18,731 - £30,967 per annum (Lecturer Grade A-Grade B)

TECHNOLOGY FACILITY DIRECTORSHIP

(Ref: 12/5032)

We have created a new position to direct the activities of the Technology Facility in the JIF development. The Facility will house six major laboratory suites providing a range of molecular technologies, which will provide a development and training resource for science-based research across the biosciences at York from biomolecular science to ecology. This is a senior managerial and entrepreneurial position and we anticipate that the successful candidate will have gained direct experience of scientific research in the biosciences at some stage of their career, as well as significant managerial experience gained within an academic/industrial/commercial context.

Salary range £32,000 - £37,000 per annum.

Further information can be gained informally on the Biochemistry Chair and the proposed role of the Technology Facility and its Director from Professor Dianna Bowles, JIF grantholder, tel: 01904 434334, email: djb32@york.ac.uk

Enquiries about the Smith and Nephew lectureship to Professor Tim Skerry, tel: 01904 434384, email: tms3@york.ac.uk

Enquiries about the Plants Sciences lectureship to Dr Ottoline Leyser, tel: 01904 434333, email: hmoll@york.ac.uk

General enquiries can be made to Professor Alistair Fitter, Head of Department, tel: 01904 432814, email: ahf1@york.ac.uk

For further information and details of how to apply please write to the Personnel Office, University of York, Heslington, York YO10 5DD, email: jobs@york.ac.uk quoting the appropriate reference number or see <http://www.york.ac.uk/admin/persnl/jobs>

Closing date for applications: 11 August 2000.

POSITIONS OPEN

POSTDOCTORAL POSITIONS CALCIUM SIGNALING

Two Postdoctoral positions are available to study several emerging topics in calcium signaling, including (1) capacitative calcium entry mechanisms and (2) calpessins (endogenous regulators of calcineurin). We have recently discovered calpessins and begun to study their roles in yeast and mammalian cells and their potential role in Down Syndrome (*Genes and Dev.*, July 2000; *Hum. Mol. Gen.*, July 2000). Additionally, we have uncovered a capacitative calcium entry mechanism in yeast involving a novel member of the voltage-gated family of Ca^{2+} channels (*Mol. Cell. Biol.*, in press). These projects offer the unique opportunity to merge classical/molecular genetics with powerful methods in eukaryotic cell biology and physiology. Candidates should be motivated, interactive, and experienced with either DNA microarrays, calcium imaging, yeast genetics, molecular biology, or electrophysiology. Send curriculum vitae with the names and contact information of three references plus a cover letter describing your interests to: **Dr. Kyle W. Cunningham, Department of Biology, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. E-mail: kwc@jhu.edu.** *Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

POSTDOCTORAL POSITION STUDY OF DEVELOPMENTAL ROLE OF THYROID HORMONE RECEPTORS

A Postdoctoral position is available to investigate the molecular biology and genetics of thyroid hormone receptors in development. Present studies take advantage of knockout mouse models and focus on neurodevelopment, including development of the auditory system (*Nat. Genet.* 13:354, 1996; *PNAS* 95:15758, 1998; *Genes and Devel.* 13:1329, 1999; *PNAS* 97:1287, 2000).

Experience with molecular biology and/or transgenic mice desirable. Curriculum vitae and three letters of reference should be sent to: **Dr. D. Forrest, Department of Human Genetics, Box 1498, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029.** Visit our website: www.mssm.edu. *We are an Equal Opportunity Employer fostering diversity in the workplace.*

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for three to five years to study interactions between the novel survival protein kinase mirk (*Cancer Res.* 60:3631-3637, 2000) and TGF β 1 proliferative response in aggressive cancers (*Int. J. Cancer* 87:373-378, 2000). Background in protein biochemistry and molecular biology essential. Send curriculum vitae and e-mail and telephone numbers of three references to: **Eileen Friedman, Ph.D., Jones/Rohner Professor of Pathology, Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210. E-mail: friedmac@mail.upstate.edu.**

POSTDOCTORAL FELLOWSHIP position available to study cellular and molecular changes in myocytes isolated from postinfarction rats in the laboratory of **Joseph Y. Cheung, M.D., Ph.D.** The effects of exercise training on postinfarction myocyte performance are also investigated. Strong background in cellular physiology and molecular biology is preferred. If interested, please send your curriculum vitae and letter of interest to: **Weis Center for Research, Attention: Suann Klechinski, Administrative Assistant, 100 North Academy Avenue, Danville, PA 17222.**

Cardiovascular Bioelectricity Laboratory, Harvard Medical School: The Laboratory seeks an **INSTRUCTOR** in cardiac cellular electrophysiology and **POSTDOCTORAL FELLOWS** in molecular cardiology. See website: <http://bioelectricity-lab.bwh.harvard.edu>. Please send curriculum vitae to: **Gideon Koren, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. E-mail: koren@calvin.bwh.harvard.edu.**

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

www.training.nih.gov

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

POSTDOCTORAL POSITIONS CENTER FOR BIOLOGICS EVALUATION AND RESEARCH

Food and Drug Administration

Two Postdoctoral positions are available immediately in the Laboratory of Respiratory and Special Pathogens for a recent graduate with Doctoral degree in microbiology, molecular biology, biochemistry, or cellular biology. Laboratories are located on the NIH campus in Bethesda, Maryland. The initial appointment is for three years. The candidate should have a background in microbial, molecular, biochemical, and cellular techniques. Salary starts at \$35,000 to \$42,000 and is commensurate with qualifications and experience.

(1) *Bordetella pertussis*: The candidate will conduct biomedical research focused on the pathogenesis of *Bordetella pertussis*. Possible areas of research include the characterization of host-pathogen interactions, the identification of virulence factors, and the characterization of virulence factor regulation.

(2) *Bacillus anthracis*: The candidate will conduct biomedical research focused on the pathogenesis of *Bacillus anthracis*. Possible areas of research include the identification of virulence factors, the characterization of virulence gene regulation, and the characterization of animal models of disease and protection.

How to apply: Please send curriculum vitae and three references to: **Dr. Tod J. Merkel, Laboratory of Respiratory and Special Pathogens, CBER, FDA, HFM-434, 1401 Rockville Pike, Rockville, MD 20852-1448.**

An NIH-funded **POSTDOCTORAL POSITION** is available immediately in the Department of Anesthesia to study the interaction of inhaled anesthetics with small synthetic water-soluble and membrane-soluble α -helical bundle proteins. The research project involves protein design, protein synthesis, and the structural characterization of protein-anesthetic complexes. The applicant must have an M.D. and/or Ph.D. degree and be skilled in biochemistry or spectroscopy. Send curriculum vitae and names and e-mail addresses of three references to:

Jonas S. Johansson, M.D.
Department of Anesthesia
University of Pennsylvania Health System
Dulles 801
3400 Spruce Street
Philadelphia, PA 19104 U.S.A.
Telephone: 215-349-5472
FAX: 215-349-5078
E-mail: johansso@mail.med.upenn.edu

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

Department of Biology, University of Dayton. To work on molecular biology of lens and limb regeneration. The candidate should have experience in basic developmental biology procedures such as histology and in molecular biology techniques such as DNA manipulation, transfections, *in situ* hybridization, and PCR. The main focus of the research is to induce regeneration by genetic manipulation in animals. Please send résumé and names and telephone numbers of three references to: **Panagiotis A. Tsonis, Laboratory of Molecular Biology, University of Dayton, Dayton, OH 45469-2320. E-mail: tsonis@neelinc.udayton.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWS

Positions available immediately to study the role in taste transduction of the G protein gustducin and its interacting partners (*Nature Neuroscience* 2:1055, 1999; *Nature* 381:796, 1996; *Nature* 376:80, 1995; *Nature* 376:85, 1995; *Nature* 357:563, 1992). Projects involve the generation and analysis of transgenic, knockout, and knock-in mice to study mammalian taste transduction mechanisms. A strong background in molecular biology required. Experience with transgenic techniques and animal husbandry desirable. For consideration, please send your curriculum vitae, names and addresses of three references, and a statement of research interests to: **Drs. Robert F. Margolskee and Sami Damak, Department of Physiology and Biophysics, Howard Hughes Medical Institute at The Mount Sinai School of Medicine, Box 1677, One Gustave L. Levy Place, New York, NY 10029. FAX: 212-849-2599; e-mail: Damak@inka.mssm.edu; websites: <http://www.hhmi.org/science/neurosci/margolskee.html> and <http://www.mssm.edu/physbio/local/primfac/margolskee.html>. We are an Equal Opportunity Employer fostering diversity in the workplace.**

POSTDOCTORAL POSITION AVAILABLE MOLECULAR NEUROSCIENCE DEPARTMENT OF PSYCHIATRY

Two Postdoctoral positions are available in the Neuroinflammation Research Laboratories of the Department of Psychiatry to study gene expression using DNA microarray hybridization technology. The studies are aimed at identifying genes involved in the clinical progression of Alzheimer's disease dementia.

The successful candidate must have demonstrated knowledge of molecular biology and protein chemistry. Position requires more than two years of commitment and exceptional motivation. Send curriculum vitae, interests, and names of three references to: **Giulio Maria Pasinetti, M.D., Ph.D., Director, Neuroinflammation Research Laboratories, Department of Psychiatry, Box 1229, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** Visit our website: www.mssm.edu. *We are an Equal Opportunity Employer fostering diversity in the workplace.*

POSTDOCTORAL AND/OR RESEARCH ASSOCIATE

The Section of Gastroenterology at the University of Chicago has a Postdoctoral and/or Research Associate position available immediately to provide research in the investigations of genetic and epigenetic alterations occurring in colonic carcinogenesis and those mediating chemoprevention.

The individual must have experience in molecular biology and possess a Doctorate degree in molecular biology or related fields of research. Academic rank and salary will be commensurate with training and experience.

Mail/FAX your curriculum vitae and the names of three references to: **The University of Chicago, Department of Medicine, Section of Gastroenterology, Attention: Dr. Thomas A. Brasitus, 5841 South Maryland Avenue/MC 4076, Chicago, IL 60637. FAX: 773-702-2182.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available at the National Cancer Institute in a laboratory that focuses on oncogenes and tumor suppressors involved in myeloid leukemia and differentiation. A current focus in the laboratory is on the application of microarray technology to determine genes regulated by oncogenic transcription factors. Another emphasis is on the development of new leukemia models based on transgenic mice. A strong background in molecular biology and cell biology is essential. Send curriculum vitae and names of three references to: **Dr. Linda Wolff, Head, Leukemogenesis Section, NCI, Building 37, Room 2D11, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255. E-mail: lwolff@helix.nih.gov.** *NIH is an Equal Opportunity Employer.*

POSITIONS OPEN

CHAIR, DEPARTMENT OF PATHOLOGY UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE Charlottesville, Virginia

The University of Virginia School of Medicine seeks candidates for the position of Chair, Department of Pathology. Candidates should have a distinguished record of research, training, and clinical service. The Department of Pathology at the University of Virginia is nationally and internationally recognized for its service and educational programs in surgical and clinical pathology as well as neuropathology. Outstanding opportunities for building research programs will be afforded by increased laboratory space in a new research building and new research positions for the Department.

Nominations should include a brief statement of the qualifications and qualities of the nominee which makes him or her suitable for the position. Applications should include curriculum vitae, a brief personal statement, and the names and addresses of at least three references. Please send nominations and applications to:

G. F. Wooten, M.D.
Chair, Pathology Search Committee
University of Virginia Health System
Department of Neurology, Box 800394
Charlottesville, VA 22908
Telephone: 804-924-8369
FAX: 804-982-1726
E-mail: GFW4B@virginia.edu

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS IN CANCER BIOLOGY

Postdoctoral positions are available to study tumor suppressor signaling networks that maintain the human genome. We have recently identified many components of the BRCA1, BRCA2, and ATM signaling network using an integrated approach of biochemistry and mass spectrometry (see *Genes and Dev.* 14:927-939, 2000; *Science* 286:1162-1166, 1999). We are now in a position to understand the function. Many exciting research projects await motivated scientists. Conventional molecular functional studies will be assisted closely by mass spectrometry. Candidates with experience in at least one of the areas of molecular cloning, functional analysis of gene products, DNA damage checkpoints signaling, DNA repair, or transcriptional regulation should send curriculum vitae and the names of three references to:

Dr. Jun Qin
Department of Biochemistry and Molecular Biology
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
E-mail: jqin@bcm.tmc.edu

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

EUROPEAN OPPORTUNITIES

POSTDOCTORAL POSITION ON MACROMOLECULE INTERACTION WITH MODEL MEMBRANES

L.I.P. UMR 7623 CNRS Paris, France (Academic)

This position is funded for one year with possibility of additional support for one year. The successful candidate (with zero to two years of postdoctoral experience) should hold a Ph.D. degree in condensed matter physics or in a relevant field. He/she will conduct experiments using techniques such as FRAPP, DQLS, and SAXS. Experience in ultrasound techniques and protein physical chemistry is desirable but not essential. The monthly (tax-free) salary will be 12,000 F.F. (French francs) including personal health coverage. Applications (curriculum vitae, recent publications, summary of past accomplishments, and letters of recommendation), should be sent to e-mail: Marcel.Waks@lip.bhd.c.jussieu.fr and/or jean-yves.lehucrou@iupue.u-cergy.fr.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP position available to study transcriptional control of hematopoietic proliferation and differentiation in the laboratory of Barbara A. Miller, M.D. This research will particularly involve studies on the function of fungal nuclear migration genes in human hematopoietic cell growth in a laboratory where the major focus is molecular oncology. Strong background in molecular biology required. If interested, please send your curriculum vitae and letter of interest to: **Weis Center for Research, Attention: Suann Klechinski, Administrative Assistant, 100 North Academy Avenue, Danville, PA 17822.**

GLOBAL OPPORTUNITIES

FACULTY POSITION THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY Department of Biochemistry

The Department of Biochemistry invites applications for a tenure-track faculty position at the ASSOCIATE PROFESSOR or ASSISTANT PROFESSOR level. Applicants should have a Ph.D. degree and relevant research experience.

Three major research areas are active in the Department: (1) cellular biochemistry, (2) biotechnology and medicinal biochemistry, and (3) macromolecular structure and function. The Department is interested in appointments in functional genomics/proteomics, physical biochemistry, and neurobiology. Scientists eminent in other areas will also be considered. Teaching responsibilities include undergraduate and graduate courses.

Starting rank and salary will be commensurate with qualifications and experience. Fringe benefits including medical/dental benefits and annual leave will be provided. Assistance in housing will also be provided where applicable. Initial appointment will normally be on a three-year contract. A gratuity will be payable upon successful completion of contract. Reappointment will be subject to mutual agreement.

Applications/nominations should be sent with curriculum vitae, together with the names and addresses of three references, to: **Secretary of the Search Committee, Department of Biochemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (FAX: 852-2358-2765) before 30 September 2000.**

FELLOWSHIPS

RADCLIFFE INSTITUTE FELLOWSHIPS RADCLIFFE INSTITUTE FOR ADVANCED STUDY Harvard University

The Radcliffe Institute for Advanced Study at Harvard University awards over 50 funded Fellowships each year to scholars, professionals, writers, and artists from around the world. Fellows at the Radcliffe Institute, women and men, are traditionally affiliated with one of Radcliffe's four centers for learning and scholarship; the Bunting Fellowship Program, the Schlesinger Library, the Murray Research Center, and the Radcliffe Public Policy Center.

Fellows receive office or studio space and access to libraries and other resources at Harvard University. During their tenure (September 2001 to August 2002), Fellows present their work in the form of public colloquia, lectures, exhibits, and concerts. Stipends are adjusted on the basis of need and costs directly related to specific Fellowship projects.

To learn more about Radcliffe fellowships or to receive an application, please Telephone: 617-496-1324 or write to: **Radcliffe Application Office, 34 Concord Avenue, Cambridge, MA 02138.** You can also visit the Radcliffe Institute online at website: **www.radcliffe.edu.** The application receipt deadline is November 1, 2000. *The Radcliffe Institute for Advanced Study is a scholarly community where individuals pursue advanced work across a wide range of academic disciplines, professions, and creative arts. Within this broad purpose, the Radcliffe Institute sustains a continuing commitment to the study of women, gender, and society.*

POSITIONS OPEN

POSTDOCTORAL POSITION: A Postdoctoral position is available at a Seattle-based research laboratory to study neurodegenerative and apoptotic processes in the vertebrate nervous system. Send curriculum vitae and references to: **Dr. Patric Clapshaw, Solomon Park Research Institute, 12815 N.E. 124th Street, Suite 1, Kirkland, WA 98034. E-mail: pclapshaw@solomon.org.**

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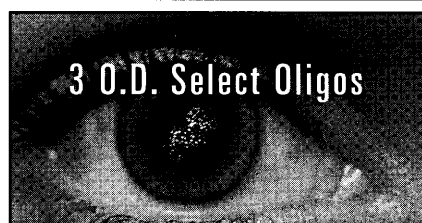
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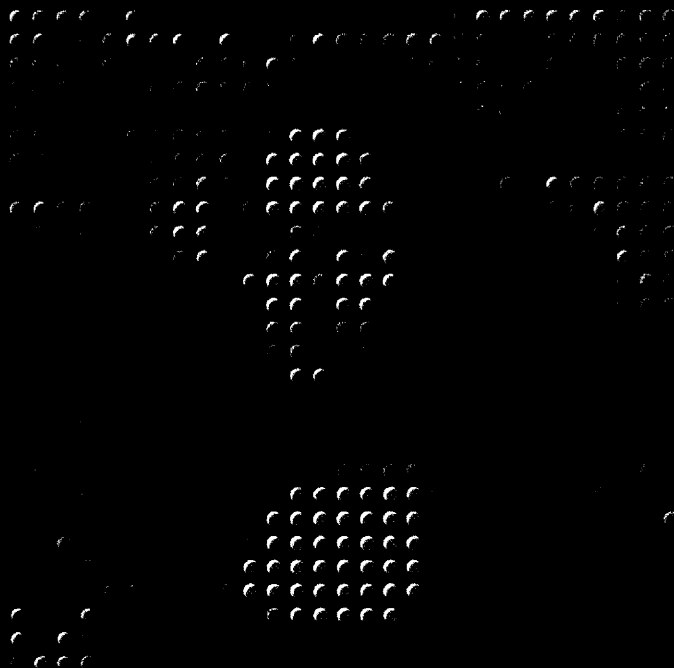
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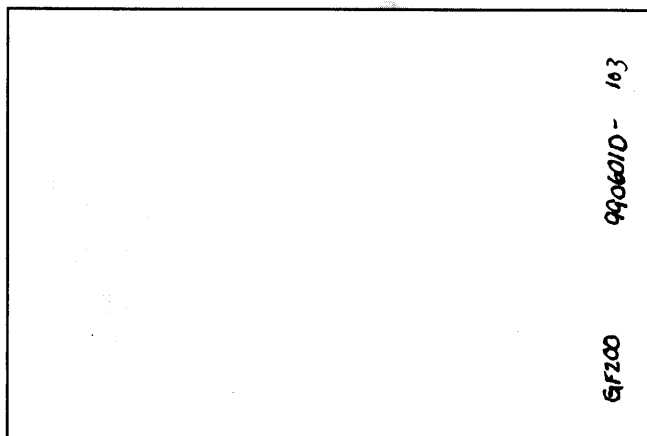
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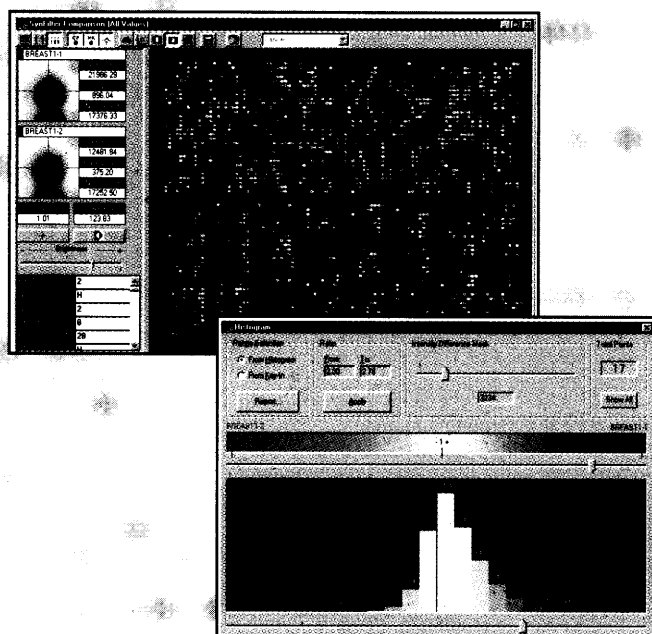
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1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares M.B. (1996) *Genomics* 33, 151-152.
 2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>
 3. <http://ratEST.uiowa.edu>

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