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LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad:

Send your ad text to: e-mail: science_classifieds@aaas.org; fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. SCIENCE will edit and typeset ads according to SCIENCE style. **SCIENCE cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

Estimates: SCIENCE will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Eric Banks, Telephone: (202) 326-6555; or Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: science_classifieds@aaas.org

Credit Cards: SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

Discounts: A 3% cash discount is granted to all prepaid ads.

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SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

FACULTY OPENING DEPARTMENTS OF RADIOLOGY AND BIOMEDICAL ENGINEERING The University of Iowa

The Department of Radiology in the College of Medicine and the Department of Biomedical Engineering in the College of Engineering is inviting applications for a faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. The successful candidate is expected to engage in externally sponsored research and supervise graduate students in quantitative cardiovascular imaging and analysis. The candidate is expected to participate in teaching biomedical image processing and medical or quantitative analysis in the Department of Biomedical Engineering at the undergraduate to advanced graduate levels. The candidate should have received a Ph.D. or equivalent degree in engineering or related disciplines and an M.D. degree, or substantial experience with clinical applications of medical imaging. Candidates with only a doctoral degree in engineering or related disciplines and who have demonstrated experience and training in quantitative cardiovascular diagnosis and diagnostic radiology will also be considered. The Department of Radiology offers a stimulating and dynamic environment for conducting basic research and clinical investigations with medical imaging systems, especially MRI, CT, ultrasound, and PET/SPECT. The applicant should submit a letter of application, a statement of research and teaching objectives, a curriculum vitae, and a list of three professional references to: **Chair, Faculty Search Committee, Department of Radiology, 3790 JPP, University of Iowa, Iowa City, IA 52242.** Review of the applications will begin by June 15, 1998. *The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

TENURE-TRACK FACULTY POSITION. The Department of Physiology and Biophysics at the University of Southern California (USC) School of Medicine seeks to fill a position in the area of neural regulation of food intake. Optimal qualifications include a strong background in integrated neurosystems complemented by nutrition/metabolic regulation. Candidates are expected to have relevant publications and potential for extramural funding, as well as teaching ability. The Physiology and Biophysics Department includes a strong program in metabolic regulation as well as transport biophysics. Interactions are encouraged with the USC Neural, Informational, and Behavioral Sciences Program (a multidisciplinary and multischool consortium), the Diabetes Division, and the Department of Neurology. Interested individuals should send a statement of research, curriculum vitae, copies of recent publications, and three references to: **Dr. Richard N. Bergman, Chair, Department of Physiology and Biophysics, University of Southern California School of Medicine, 1333 San Pablo Street (MMR 626), Los Angeles, CA 90033.** *USC is an Equal Opportunity Employer. Women and members of underrepresented minorities are encouraged to apply.*

ENDOWED PROFESSORSHIP AND DIRECTOR COSMOPOLITAN INTERNATIONAL DIABETES CENTER University of Missouri

Full-time position for a Senior Physician-Scientist as Professor and Director of the Cosmopolitan International Diabetes Center and the Division of Endocrinology and Metabolism, Department of Internal Medicine, University of Missouri-Columbia. We seek applicants with a track record of outstanding accomplishment in basic and/or clinical research in diabetes, with a strong interest in clinical diabetology and teaching, with demonstrated ability to successfully compete for extramural funding, and with the leadership skills to develop and direct multidisciplinary programs in diabetes research. Collaborative opportunities exist for basic and clinical research in a variety of fields, including autoimmunity, molecular biology, animal models, and other areas. Address inquiries and curricula vitae to: **Dr. Robert Hoffman, Director, Division of Immunology and Rheumatology, Department of Internal Medicine, School of Medicine, University of Missouri-Columbia, MA427 Medical Science Building, Columbia, MO 65211.** Telephone: 573-443-2511, ext. 3726; e-mail: intmdrh@showmc.missouri.edu. *UMC is an Equal Opportunity/Affirmative Action Employer and complies with the ADA Act of 1990. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ST. LAWRENCE UNIVERSITY VISITING ASSISTANT PROFESSOR OF BIOLOGY

St. Lawrence University (SLU) invites applications and nominations for a position as a Visiting Assistant Professor to begin the fall of 1998. A Ph.D. in the biological sciences is required, with discipline open. This position will be devoted to teaching a section of general biology. There may also be an opportunity to teach upper-level courses. A demonstrated expertise in the use of computers and instructional technologies is preferred. Interested candidates should submit a letter of application, a curriculum vitae, a statement of teaching experience and philosophy that reflects innovative and progressive pedagogies, and have three letters of recommendation forwarded to:

**Dr. T. Budd
Biology Department
St. Lawrence University
Romoda Drive
Canton, NY 13617**

The search committee will review applications as they are received.

St. Lawrence University, chartered in 1856, is the oldest continuously coeducational institution of higher learning in New York State. An independent, private university firmly committed to undergraduate liberal arts education and cross-cultural opportunities, St. Lawrence University offers a unique learning environment. The University's 1,900 students come from most U.S. states and more than two dozen other countries. Canton, the St. Lawrence River Valley, the nearby Adirondack State Park, and the cities of Ottawa and Montreal provide the University community many social, cultural, and outdoor recreation activities. SLU's homepage and the biology homepage is **website: it.slawu.edu/~biology.**

St. Lawrence University is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, veterans, and persons with disability are encouraged to apply.

DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND REPRODUCTIVE SCIENCES University of Pittsburgh School of Medicine Division of Reproductive Immunology

The Magee-Womens Research Institute and the Department of Obstetrics, Gynecology, and Reproductive Sciences at the University of Pittsburgh School of Medicine invites application for a faculty position in immunology as an **ASSISTANT or ASSOCIATE PROFESSOR**. Applicants must have a background in immunology, preferably with expertise in mucosal immunology. Applicants should have a Ph.D., postdoctoral experience, and research interests that include collaborative studies with basic scientists and clinicians in the area of women's health. The applicant will be expected to develop a research program and solicit extramural funding. It is anticipated that an appointment in a basic science department at the University of Pittsburgh would be available such that the applicant would have the ability to mentor graduate students in their research area. Salary is commensurate with qualifications and experience. Applicants should submit a letter of application outlining their research interests, professional goal, curriculum vitae, and the names of three references to: **Richard L. Sweet, M.D., Professor and Chair Department, Department of Obstetrics, Gynecology, and Reproductive Sciences, Magee-Womens Hospital, 300 Halket Street, Pittsburgh, PA 15213.** Applications should be received by May 30, 1998, to ensure full consideration. *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR, PROTEIN STRUCTURAL BIOLOGIST. Applications are invited for a non-tenure-track faculty position in the Protein Research Laboratory, University of Illinois at Chicago. Applicant with experience in X-ray crystallography is preferred. Working knowledge in protein/peptide chemistry and spectroscopic analyses is essential. Responsibilities include participation in ongoing research projects and operation of a service core facility. Successful applicant is strongly encouraged and will be supported to develop an independent, externally funded research program. Send curriculum vitae, a statement of research and career goals, and the names of three references to: **Dr. Yee-Kin Ho, Department of Biochemistry and Molecular Biology (m/c 536), University of Illinois at Chicago, 1819 West Polk Street, Chicago, IL 60612.** *UIC is an Affirmative Action/Equal Opportunity Employer.*

OUR FORMULA FOR SUCCESS:

Science  Compassion

 Fulfillment

Infectious Diseases Research:

Ph.D. and BSIMS Biochemists

We are seeking scientists with proven expertise in biochemistry. Individuals with experience with microorganisms are preferred. These individuals will become colleagues on multidisciplinary teams committed to identifying, characterizing, purifying and exploiting novel antimicrobial/antifungal targets. Experience purifying and characterizing proteins, developing functional assays for proteins and studying the kinetics and mechanisms of inhibition of enzymes and proteins is critical. Knowledge of microbiology, microbial physiology and protein biochemistry is highly desirable. **Ad Code: ADSCMBI51**

Post Doctoral Fellows

We are looking for creative individuals in a variety of scientific areas to explore emerging aspects of human infectious diseases. A Ph.D. in Biochemistry or related field is required. Focus areas in Infectious Diseases Research include hepatitis viruses, important human fungal pathogens, and antibiotic-resistant Gram-positive bacteria. Lilly postdoctoral fellows gain sound practical experience and focused training that will significantly expand their scientific knowledge and abilities in drug discovery. **Ad Code: ADSCMBI52**

Neuroscience Research:

BSIMS Biochemical Pharmacologists

These positions require the ability to carry out both in vitro and in vivo measures of drug receptor interaction and effects on brain neurochemistry. Experience in radioligand binding, second messenger assays, neurotransmitter release/turnover and/or in vivo microdialysis is desired. **Ad Code: ADSCMBI53**

BSIMS Molecular Neurobiologists

These positions require some experience in the following areas: neuronal signal transduction, receptor-mediated biology, neuropeptides, neurosteroid biology, knock-out mouse technology, proficiency in neuronal tissue culture, and immunohistochemistry. Candidates must have a strong molecular biology background; protein expression, expression cloning, gene delivery systems, anti-sense technology and protease biology. BS/MS applicants should have 3-5 years experience. **Ad Code: ADSCMBI54**

Research Technologies and Proteins:

Associate Molecular Biologist:

We are seeking an enthusiastic and self motivated BS/MS scientist with extensive experience in molecular biology, biochemistry, cell biology or a related field to join an ongoing effort to optimize and develop novel therapeutic proteins. Excellent communication and presentation skills are required as well as interest in expanding skills leading to successful drug discovery. Candidates should have demonstrated expertise in protein expression, preferably in a variety of heterologous expression systems, and strong proficiency in molecular biology (DNA cloning, PCR, mutagenesis). In addition, experience in protein purification and characterization is desirable. **Ad Code: ADSCMBI55**

BSIMS Protein Biochemist

We are seeking an enthusiastic and self-motivated individual with experience in protein biochemistry who will join a multifunctional team focused on protein optimization. The selected candidate will use biochemical methods to purify and characterize proteins. Basic knowledge of protein analytical methods is needed. Good data organization and communication skills are also required. Experience in molecular biology techniques would be beneficial. **Ad Code: ADSCMBI56**

Biochemical Development:

Ph.D Cell Culture Development

We are seeking a highly qualified individual to develop novel processes to express therapeutic proteins using mammalian cell culture technology. The qualified candidate will have experience with large scale mammalian cell culture and harvest techniques and will have a working knowledge of CBER regulatory requirements. Experience in the drafting of regulatory documents and transfer of processes from development to commercial manufacturing facilities is desirable. Successful applicants will have a PhD in Biochemical Engineering, Cell Biology or Microbiology and 5 - 7 years post graduate experience. **Ad Code: ADSCMBI57**

BSIMS Mammalian Cell Molecular Biologists

The successful candidates will have demonstrated success constructing cell lines to express recombinant proteins. General molecular biological training with a BS or MS degree in Biochemistry, Molecular Biology, Microbiology or equivalent discipline is essential. The applicant should be able to construct recombinant DNA molecules, analyze the DNA with a variety of techniques such as restriction mapping, southern and northern blots, and quantitative measurements. The successful candidate will know how to grow cultures and analyze expression using techniques such as PAGE, western blots and ELISAs. **Ad Code: ADSCMBI58**

BSIMS Cell Culture Development

We are seeking individuals with experience in mammalian cell culture technologies at both laboratory (cloning and cell line evaluation) and pilot plant scales to assist in the development and optimization of novel mammalian cell culture processes for the expression of recombinant therapeutic proteins. Particularly desirable is knowledge of, and experience in, the culture of mammalian cells in stirred tank bioreactors from 2 to 2000 liters. Working knowledge of scale-up issues and cGMPs are desirable as well as an understanding of mammalian cell physiology. Applicants should have a BS or MS in a relevant field and 2 - 4 years experience. **Ad Code: ADSCMBI59**

Bioprocess Purification Development

BSIMS Biochemists:

We are seeking several individuals who possess strong expertise in the isolation, purification and manipulation of protein products derived from various recombinant DNA expression systems. Proven experience in the fields of preparative chromatography, protein folding, enzymology and analytical characterization are considered ideal. The preferred candidate will possess a BS or MS degree in biochemistry or equivalent discipline and have a minimum of 2 years of relevant experience. In addition to possessing strong scientific skills, candidates should be capable of effectively planning and managing their time and activities and communicating their results. **Ad Code: ADSCMBI60**

BSIMS Bioanalytical Chemists:

We are seeking multiple candidates with proven experience in analytical biochemistry. The preferred candidates will possess a BS or MS degree in Biochemistry, Chemistry or equivalent discipline and ideally have 2 or more years of relevant experience. Candidates will have proven experience in analytical method development via HPLC, ELISA, Western blots and restriction enzyme digest methods. Written and verbal communication skills and a demonstrated ability to work in an independent manner are essential. **Ad Code: ADSCMBI61**

BSIMS Biochemists, Chemical Engineers - Technical Services:

Qualified candidates will participate in supporting the scale-up and manufacturing of recombinant proteins and natural products. Preferred candidates will have 3 or more years of experience in bulk manufacturing or development. Experience in the isolation, purification and manipulation of proteins and/or natural products is ideal. Strong candidates will have excellent problem solving, organizational and planning skills and demonstrated leadership abilities. Innovation and creativity are highly valued and the ability to work effectively in teams is critical. **Ad Code: ADSCMBI62**



At Eli Lilly and Company, we've been driven by a commitment to excellence and the pursuit of innovation ever since we began researching and developing novel pharmaceuticals more than a century ago. We work hard to balance the needs of our employees by providing challenges that can make a difference along with a lifestyle that can inspire professional growth.

**LILLY RESEARCH LABORATORIES
COME TALK WITH US AT THE
AMERICAN SOCIETY
FOR BIOCHEMISTRY AND
MOLECULAR BIOLOGY MEETING
IN WASHINGTON, D.C.
MAY 16-20, 1998.**

We will be interviewing for these positions at the ASBMB meeting in May. If you are interested in any of the positions, please fax your resume to: ASBMB Recruiting Coordinator at 317-276-4716 by May 8, 1998. Please reference the ad code for the position(s) for which you would like to be considered.

To attract the best and the brightest, we offer competitive salaries and excellent benefits. If you will not be attending the meeting but would like to be considered for these positions please send a resume and cover letter to: **Eli Lilly and Company, Lilly Corporate Center, US Recruiting and Staffing, Indianapolis, IN 46285.** We are an equal opportunity employer dedicated to the strength diversity brings to the workplace.

For more information about Lilly, please access our website at www.lilly.com. To learn more about Indianapolis, visit: www.welcometoindy.com.

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WORLDWIDE HEALTH CARE SOLUTIONS



Public Announcement Regarding a Research and Development Project Based on the New Sunshine Program

New Energy and Industrial Technology Development Organization April 23, 1998

The New Energy and Industrial Technology Development Organization (NEDO) will launch the following research project in FY 1998 based on funds provided by the Ministry of International Trade and Industry (MITI) of Japan. NEDO would like to invite applications from research organizations interested in participating in the project.

1. Outline of the Project to be Entrusted in FY 1998.

Research and Development of Fundamental Technologies for Superconductivity Applications

This project aims to establish fundamental technologies for fabricating superconducting bulk materials, wires, tapes, and electronic devices using high temperature superconductors. To be specific, the following research and development will be carried out using Y123 and RE123 superconductors. Growth technologies for single-domain bulk superconductors and optimization technology of RE-Ba substitution will be developed for fabricating bulk superconductors with high critical current densities in the presence of high magnetic fields. In addition, process technologies to form substrates, buffer layer deposition technologies, and growth technologies for high quality and thick superconducting layers at high speed will be developed for fabricating superconductive wires capable of operating under high magnetic fields. Crystal growth technologies for high quality substrates, epitaxial growth technologies for superconductor/insulator thin film multilayers, and barrier layer process technologies for high quality Josephson junctions will also be developed for fabricating superconducting electronic devices as will technologies for integrated circuits. Furthermore, to contribute to the above development of fabrication technologies, basic research on high temperature superconductors will be carried out and a search for new superconducting materials will be promoted.

Note: In principle, the research will be carried out at a central domestic laboratory to be selected by NEDO and research organizations participating in the project should dispatch their researchers to the laboratory.

2. Application Procedures

(1) Qualifications of Applicants

Research organizations such as companies, associations, public corporations, or universities, interested in participating in the project independently or in the form of partnerships, that meet all of the following qualification criteria may submit an application.

- a. An applicant must have previous research and development experience in the field or related fields of the project. Also, the applicant must have the organizational structure and human resources required to carry out the entrusted research and development.
- b. An applicant must be in sound financial condition and be able to firmly manage its finances and facilities to smoothly carry out the entrusted research and development.
- c. An applicant must be willing and able to comply with NEDO's instructions, if such are necessary, in order to fully execute all of the provisions of the entrustment contract.

Participation in the project is open to both domestic and overseas applicants. However, from the viewpoint of ensuring efficiency and flexibility, carrying out research and development at domestic laboratories is one of the important aspects considered. To be specific, regarding overseas research, only research and development items that cannot be conducted in Japan, that are impossible to carry out without using special facilities located overseas and so on, will be selected.

The criteria that NEDO will follow to select project participants are as follows:

In principle, a central laboratory should be established in Japan. As for the other laboratories, the contents of the research and development corresponding to more than one-half of the amount of the total budget (on an annual expenditure basis) for other laboratories should be carried out in Japan.



(2) Application Method

- 1 Please submit proposals in accordance with the Proposal Guideline during the period for application.
- 2 You can obtain the following information posted on NEDO's Internet site (<http://www.nedo.go.jp/index-e.html>):
Basic Plan
Implementation Policy (for the first year)
Proposal Guideline
- 3 Interested parties who cannot access NEDO's Internet site should attend the below mentioned explanatory meeting. At the meeting, documents concerning application such as the Basic Plan, as well as contract forms (draft), will be made available in written form.
- 4 To obtain the above documents, including contract forms (draft), please send a request together with a self-addressed envelope and international reply stamp to the following address:

**New Energy and Industrial Technology Development Organization
Energy Conversion & Storage Dept.
27th Floor, Sunshine 60 Bldg.
3-1-1, Higashi-Ikebukuro
Toshima-ku, Tokyo 170-6028**

(3) Explanatory Meeting

An explanatory meeting will be held in order for NEDO to fully explain the contents of the research work, procedures concerning contracts, documents to be submitted, etc. We would appreciate the attendance of all interested parties. Please note that Japanese will be the only language used during the meeting.

Date and place of meeting

Date: May 8 (Friday), 1998
1:00 p.m. to 2:30 p.m.

Place: New Energy and Industrial Technology Development Organization
Meeting Room 280 (28F)
3-1-1, Higashi-Ikebukuro
Toshima-ku, Tokyo 170-6028
Tel: +81-3-3987-9351

Questions concerning the research and development and contract for the work to be entrusted will be accepted at the meeting and by fax (only in Japanese) from May 9 to 19, 1998

Inquiries concerning the contract for the work to be entrusted:

Fax number: +81-3-3981-1059 (Policy Planning & Coordination Div., Policy Planning Dept.)

Inquiries concerning the contents of research and development:

Fax number: +81-3-5992-5233 (Energy Conversion & Storage Dept.)

3. Period for Application

All applications must arrive at NEDO no later than June 12 (Friday), 1998.

4. Address to Submit Proposals

Please submit proposals to the following address:

**New Energy and Industrial Technology Development Organization
Policy Planning & Coordination Div., Policy Planning Dept.
29th Floor, Sunshine 60 Bldg.
3-1-1, Higashi-Ikebukuro
Toshima-ku, Tokyo 170-6028**

Number One Cancer Center

for the 5th consecutive year

— U.S. NEWS & WORLD REPORT

RESEARCH SUPPORT OPPORTUNITIES

Memorial Sloan-Kettering Cancer Center, the nation's #1 facility dedicated to the research and treatment of cancer, utilizes cutting edge technology as well as all of the strength and resources you expect from a leader to advance the cause of cancer research. Currently, we have the following outstanding Research opportunities available:

SENIOR RESEARCH TECHNICIANS

Laboratory of Cellular Immunobiology

Assist lab members working with cells primarily of human origin on numerous projects related to tumor and viral cellular Immunobiology. Conduct FACS analyses and experiments monitoring immune responses in tissue culture systems. Responsible for mechanics and general operation of the laboratory under the direction of lab head. Bachelor's degree in biology-related field, or substantial concentration in same, and prior research experience required. Preference given to individuals with higher degree and/or prior experience in cellular immunology. Computer proficiency with word processing and spreadsheet or database programs necessary. Job Code #98087R

Bone Marrow Transplant Department

You will assist investigators in preparing for, participating in, and analyzing the treatment of bone marrow and peripheral blood progenitor cells for transplant as well as coordinate the analysis of peripheral blood leukocytes for immunotherapy. Requires a Bachelor's degree in a biological or natural science along with at least 3 years of laboratory-based experience (or a Master's degree with one year of experience). Familiarity with word processing and spreadsheet/database programs a must. Job Code #98088R

Radiochemistry/

Cyclotron Core Department

Utilizing your strong technical skills, you will perform laboratory work related to the use of radionuclides and their inclusion into chemical compounds. Additional responsibilities include radiolabeling, performing quality control of compounds, maintaining inventory of reagents, and preparing effort reports. Requires a Bachelor's degree in chemistry, familiarity with analytical equipment and good manual dexterity. Job Code #98090R

RESEARCH TECHNICIANS

Experimental Tumor Testing Department

You will conduct quantitative evaluations of antitumor effects of pharmacologic agents in cell cultures and mice as well as evaluate new antitumor model systems obtained by primary explant of murine or human tumors in mice (or develop by transgenic techniques). Additional responsibilities include implementing experiments, recording data for analysis, and maintaining frozen cell/tissue banks. Requires a Bachelor's degree in Biology (or equivalent experience), basic analytical skills, and computer proficiency. Job Code #98089R

Structural Biology of Oncogenes and Tumor Suppressors

This challenging position in the field of structural biology involves both molecular biology and biochemistry experiments. The ideal candidate must have a Bachelor's degree in the biological sciences along with basic laboratory experience (experience gained in undergraduate training is acceptable). Job Code #98091R

We offer a competitive salary and comprehensive benefits, including 100% tuition reimbursement. Please forward your resume and salary requirements, INDICATING JOB CODE, to: M. Ko, Employment Dept., MSKCC, 633 Third Avenue, 5th Floor, New York, NY 10017. EOE/AA.



Memorial Sloan-Kettering
Cancer Center

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MOLECULAR GENETICS OF BRAIN TUMORS

Center for Molecular Genetics

The Lerner Research Institute

The Cleveland Clinic Foundation

An Assistant/Associate faculty position is available in the Center for Molecular Genetics at the Cleveland Clinic Research Institute. Successful applicants will be expected to develop a competitive research program in an area that relates to the genetics of brain tumors. Appointments can be made in any aspect of this field including pediatric brain tumors, neurofibromatosis, meningiomas, etc. A proven ability to apply state-of-the-art molecular genetic techniques to the study of human brain tumors is required and the Cleveland Clinic has abundant clinical material available as a resource to support this research. Excellent salaries and benefits along with generous start-up support for equipment, supplies, and personnel are available. The Cleveland Clinic Lerner Research Institute, with approximately 100 principal investigators and an annual research budget of \$83M, provides an exciting environment for molecular genetic research. Salary and rank will commensurate with the qualifications and experience of the candidate.

Applicants should send their curriculum vitae and a statement of research interests with names, addresses, and telephone numbers of three individuals from whom letters of reference can be obtained to:

Dr. John K. Cowell, Chairman

Molecular Genetics Search Committee - NC30

The Lerner Research Institute

The Cleveland Clinic Foundation

9500 Euclid Avenue

Cleveland, OH 44195

*The Cleveland Clinic Foundation is an Equal Opportunity/
Affirmative Action Employer.*

ProScript

ProScript is a biopharmaceutical company focused on the development of small molecules to regulate gene transcription factors and key enzymes in the ubiquitin-proteasome pathway. We are currently recruiting several key positions in Molecular and Cellular Biology and Protein Chemistry. The successful candidates will be part of an interdisciplinary team aimed at discovering drugs to treat inflammation and cancer.

Associate Scientist Cellular and Molecular Biology

Candidates must have an M.S. or equivalent with at least 2-3 years of relevant experience in molecular and cellular biology. A demonstrated ability to conduct research utilizing a broad base of molecular and cell biological concepts and techniques is required. Candidates must also have experience in recombinant protein expression and purification and mammalian cell culture and transfection. Experience in cellular assay development is desired, but not required. Industrial experience is a plus.

Scientist

Protein Chemistry

Candidates must have a Ph.D or M.S. with at least 2-3 years of relevant experience in protein biochemistry. This scientist will have principle responsibility for the purification and characterization of targeted enzymes. The candidates must have a demonstrated ability to develop and implement purification schemes for complex, multi-subunit enzymes in mammalian cultured cells and tissues. In addition, the candidates must possess strong analytical skills and should have experience in enzyme assay development. The ability to work as part of a team is critical to success in this position.

Post-Doctoral Fellow

in Biochemistry/Molecular Biology

To participate in an NIH-sponsored research on the functions of novel human ubiquitin-conjugating enzymes. Candidates should have a strong background in the use of molecular and cellular approaches with mammalian cells as well as familiarity with general biochemical techniques.

ProScript offers an intellectually challenging environment where innovation and creativity are rewarded. These positions offer excellent benefits including health, dental and a 401(k) plan. Please state the position of interest and send a detailed Curriculum Vitae along with the names of three references to:

**Human Resources,
ProScript, Inc., 38 Sidney St.,
Cambridge, MA 02139.**

No phone calls, please.

We are an equal opportunity employer.

ProScript

PROTEIN DESIGN LABS

Protein Design Labs' interdisciplinary approach to drug discovery integrates computer-based design with molecular biology, immunology and protein chemistry. We have the following Postdoc opportunities available:

POSTDOCTORAL FELLOWS

Molecular Biology

We will rely on you to work on antibody engineering in our active molecular biology group. Requires a PhD in Molecular Biology, Molecular Immunology (or related area) and familiarity with modern molecular biology techniques, including library construction, gene cloning and mutagenesis. Experience in the phage display system is preferred. Job Code: 414.

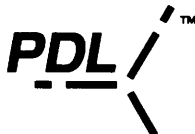
Immunology

Utilizing expertise in human B & T lymphocyte biology, you will conduct independent research focusing on the development of antibody-mediated immunosuppressive strategies. Requires a PhD in Immunology (or related discipline) with experience in the isolation, culture, and functional evaluation of human lymphocyte populations. Experience in hybridoma generation and monoclonal antibody purification, characterization and modification is essential, as is familiarity with flow cytometry, ELISA, and basic protein biochemistry and molecular biology techniques. Job Code: 416.

Inflammatory and Autoimmune Diseases

We will rely on you to study the cellular and molecular mechanisms of inflammatory and autoimmune diseases, using *in vitro* and/or *in vivo* models. You will join an active research group studying the role of cytokines and adhesion molecules in human model systems and in murine models of inflammatory bowel disease and psoriasis. Requires a PhD in Immunology (or related field). Demonstrated experience in a laboratory studying mechanisms of inflammation/autoimmune disease or other basic immunobiology areas is essential. Experience in membrane protein biochemistry or some molecular biology would be preferred. Job Code: 417.

PDL's fast-paced, highly challenging environment offers exceptional professional opportunities, competitive salaries and a comprehensive benefits package. Later in 1998, we will be relocating to Fremont, CA. Visit our home page at www.pdl.com to learn about our company and other career opportunities at PDL. Please send your resume to: Protein Design Labs, Inc., Human Resources, Job Code _____, 2375 Garcia Ave., Mountain View, CA 94043, fax 650/962-0437. EOE.



Bristol-Myers Squibb Company

Bristol-Myers Squibb, an internationally recognized leader in the research, marketing and manufacturing of innovative pharmaceuticals, has exceptional opportunities for Scientists at its Genetic Toxicology Department in Syracuse, New York.

GENETIC TOXICOLOGY

Cytogeneticist/Genetic Toxicologist

The selected individual should have postdoctoral experience and the ability to microscopically evaluate mammalian cell chromosome damage (aberrations and micronuclei). You will also be involved in GLP cytogenetic evaluations (*in vivo* and *in vitro*) of project compounds and work on automation of the assays. The successful candidate should have an MS degree with 10 years experience or a Ph.D. with 2-4 years experience in the Biological Sciences. General knowledge of computer programs, excellent verbal and written communication skills and the ability to interact as part of a team are required. Job Code: 98-000185

Genetic Toxicologist - Postdoctoral

The selected individual should have training in genetic toxicology or a closely related field. You may work on projects in any one of the standard battery assays and will receive some training in GLP assays for Genetic Toxicology. This position is for one year with a possible renewal of 1-2 years. You must have U.S. citizenship or a permanent resident status. Job Code: GTPD

Bristol-Myers Squibb offers competitive salaries, a comprehensive relocation policy and opportunity for professional growth. Please forward your resume, with Job Code, to: Bristol-Myers Squibb, Manager Human Resources, P.O. Box 4755, Syracuse, NY 13221. Equal Opportunity Employer, M/F/D/V.



SUNY Brooklyn

Offers Five Faculty Positions in the Department of Physiology and Pharmacology

The newly expanded Department of Physiology and Pharmacology at the State University of New York Health Science Center at Brooklyn (SUNY Brooklyn) is now inviting applications for five tenure-track faculty positions. Positions will be filled at **Assistant, Associate or Full Professor** levels, depending upon qualifications. Candidates should have a proven aptitude for innovative and productive research with an emphasis on **molecular and cellular approaches**. Areas of interest may include:

- Molecular recognition at receptor/ligand binding sites
- Intracellular and intercellular signaling
- Developmental and degenerative diseases


Successful candidates are expected to conduct vigorous research programs, and to contribute to the teaching of Physiology to medical students and graduate students. They will be offered generous recruitment packages, including state-of-the-art laboratories, startup funding for lab equipment and operation, and salaries competitive for the New York Metropolitan area. They will join a group of established investigators with internationally recognized research programs.

The Health Science Center is located in Brooklyn, a short distance from Manhattan. Brooklyn is rapidly undergoing a remarkable revitalization of its cultural and educational institutions. The location provides ready access to cultural and scientific centers of the New York Metropolitan area.

Please send a curriculum vitae, statement of research interests and contact information for three references to:

Robert K. S. Wong, Ph.D.
Department of Physiology and Pharmacology, Box 29
SUNY Brooklyn
450 Clarkson Ave
Brooklyn, NY 11203

Applications will be accepted until the positions are filled. Review will begin June 1, 1998. SUNY Brooklyn is an Affirmative Action / Equal Opportunity Employer.



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We require a BS/MS degree in Life Sciences or Agronomy or related field with molecular biology experience. Skills in the area of DNA isolation and manipulation, data analysis and management, and protocol execution is essential. Candidates must be highly motivated, have excellent interpersonal skills, and have the ability to work in a high-performance team-based environment. An understanding of quantitative trait loci and statistics is desired. A demonstrated knowledge of scientific principles is required, as well as an understanding and working knowledge of basic genetics, biotechnology, and molecular markets. Other skills required are experimental design and implementation and experience with Microsoft Software applications with excellent overall PC knowledge and skills.

We offer a competitive compensation and benefits package. For consideration, please send your cover letter, resume and three references to: **The Monsanto Company, Attn: PSR/MBRA, 800 N. Lindbergh Blvd., Mail Zone: C35H, St. Louis, MO 63167. Phone: (314) 694-3999. Fax: (314) 694-3038 or email to: psrogo@monsanto.com.** Visit our website at www.monsanto.com. EEO/AA Employer M/F/D/V.

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Responses should include a detailed resume, a statement of research interests/philosophy, and a minimum of 3 references. We offer a competitive salary and comprehensive professional benefits.

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To explore the utility of a systems approach to the genetics of complex traits, a computer-intensive workshop will be conducted by leading experts to investigate this approach in genetic models of complex systems. It is designed to foster communication and nurture collaboration between methodologists in linear and non-linear dynamic models and geneticists who focus on complex traits. All workshop expenses and up to 100% of the travel, lodging, and meal expenses of participants will be covered. Since space is limited, interested participants are requested to apply by sending a C.V. and a paragraph outlining their expertise in the area of the workshop indicating their substantive area, their commitment to interdisciplinary approaches, and what they expect to gain from the experience. Support provided by National Center for Research Resources grant RR13094.

Address application material and questions to: **George P. Vogler, The Pennsylvania State University, 101 Gardner House, University Park, PA 16802, e-mail: gpv@hatteras.cdhs.psu.edu; fax: 814-863-4768; phone: 814-865-1717. AA/EOE**

ANNOUNCEMENTS

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1767 Business Center Drive, Suite 302

Reston, VA 20190-5332

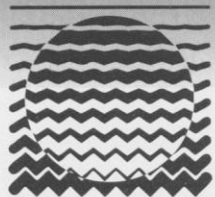
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SUMMER PROFESSIONAL PROGRAMS



THE CLEVELAND CLINIC THE LERNER RESEARCH INSTITUTE

Faculty Position in Prostate Cancer Biology

We are seeking an individual at the level of Associate or Full Professor to establish a basic laboratory research program in prostate cancer biology. The position is jointly sponsored by the Lerner Research Institute and the Department of Urology - a partnership that has previously established research programs in renal cell carcinoma and transplantation. The successful candidate (Ph.D. or M.D.) will possess an outstanding national reputation as a Basic Scientist using state-of-the-art cellular, molecular and genetic approaches to study prostate cancer biology. Applicants should have a major interest in cancer genetics, molecular genetics or molecular pathology and would interact with an existing epidemiological team studying prostate cancer. Generous support and a highly competitive salary and fringe benefits will be provided. The Lerner Research Institute of the Cleveland Clinic, under the leadership of Dr. George Stark and comprising over 90 independent investigators and over 600 employees, has a long-standing commitment to excellence in basic biomedical research with an annual budget in excess of \$50 million. The Department of Urology is a nationally recognized center of excellence in urologic disease.

Applications (including curriculum vitae and names and addresses of three references) should be sent to:

**Bryan R.G. Williams, Ph.D., Chairman, Department of Cancer Biology-
NN10, Lerner Research Institute, Cleveland Clinic Research Institute, 9500
Euclid Avenue, Cleveland, OH 44195. The search committee will receive
applications through August 1, 1998. The Cleveland Clinic is an equal opportunity
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Sr. Scientist - Dermatology & Drug Discovery

You will conduct innovative research directed towards the discovery of dermatological drugs and skin care products by identifying cellular or molecular targets in skin for drug discovery. You will also develop new model systems to evaluate new skin care agents in areas of skin aging, inflammation and pigmentation.

To qualify, you must have a PhD in Life Sciences, preferably with training in Molecular Biology, Biochemistry or Pharmacology and demonstrated expertise in Molecular Biology techniques pertinent to skin biology. Experience with *in vivo* skin models is desired.

Dept. 1998.

Post Doctoral Fellow - Dermatology & Drug Discovery

You will plan and execute a skin pigmentation project by identifying/developing the most effective experimental and technical approaches. You will also analyze data, develop hypotheses and conclusions, as well as prepare manuscripts for publication and presentations.

To qualify, applicants must have a PhD in Biological Sciences, preferably in Molecular Biology. Previous postdoctoral experience is highly desirable, but not required. Knowledge of Molecular Biology techniques, PCR, gene cloning/sequencing and cell biology techniques, including cell culture, transfections immuno/enzyme assays is essential, as is experience in pharmacology or biology.

Dept. 1999.

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UNIVERSITY OF BRITISH COLUMBIA

Department of Forest Sciences

We invite applications for an endowed Forest Renewal British Columbia chair in Applied Conservation Biology in the Department of Forest Sciences. Possible areas of expertise sought include terrestrial vertebrate population ecology, and community ecology in terrestrial and/or riparian systems, preferably using experimental approaches to examine community dynamics. Teaching experience and work in managed systems are desirable. Successful candidates will be expected to teach undergraduate and graduate courses in the Natural Resources Conservation and Forestry Programs, supervise graduate students, and conduct externally funded research. Academic appointment level will be commensurate with experience.

The forests of British Columbia are rich and varied, and forest management is at an exciting phase where new demands for forest use and conservation include a wide range of products and processes. Unmanaged forests as well as plantation forests will require new ecological and conservation approaches to satisfy diverse demands.

The University of British Columbia Faculty of Forestry has well established programs in several areas of biology and wildlife conservation, including the Centre for Applied Conservation Biology. Faculty members interact with members of the Centre for Biodiversity Research, the Sustainable Development Research Institute, the Institute for Resources and Environment and various academic departments across the University.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The closing date is **May 15, 1998** or until a suitable candidate is found. Please direct enquiries and applications consisting of a Curriculum Vitae, the names of three referees, and a brief outline of teaching expertise and research interests, to:



Dr. Kathy Martin, Department of Forest Sciences
University of British Columbia, 2357 Main Mall
Vancouver, BC, Canada V6T 1Z4
Tel: (604) 822-9695; Fax: (604) 822-5410
E-mail: kmartin@unixg.ubc.ca

Please direct general inquiries about the department and the Faculty of Forestry to **Carrie Seto**:
Tel: (604) 822-3553; Fax: (604) 822-9102; E-mail: cseto@unixg.ubc.ca. Additional information can be obtained from the UBC Forestry website: <http://www.forestry.ubc.ca>



MAYO CLINIC POSTDOCTORAL POSITION

Postdoctoral positions are available for NIH-funded research programs investigating disease risk genes in rheumatoid arthritis. The focus of this research is to identify functional implications of immune response gene polymorphisms on the inflammatory process, specifically, the genetic control of oligoclonal T cell expansion. Candidates should hold a Ph.D., M.D., or D.V.M. degree and should have training and experience in molecular and cellular techniques. Send a curriculum vitae, description of research experience, and the names and addresses of three references to:

Dr. Jorg J. Goronzy
(goronzy.jorg@mayo.edu)
or

Dr. Cornelia M. Weyand
(weyand.cornelia@mayo.edu)
Department of Medicine
Mayo Clinic
200 First Street, SW
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Research Scientist

You will research, discover, and develop new and modified nucleotides for nucleic acid detection based diagnostic assays. Strong background with a minimum of 2 years of research experience in solid-phase synthesis, and multiple labeling and "signal-amplification" are required. The successful candidate will have a Ph.D in Organic Chemistry, and expertise in modern analytical techniques. Experience with molecular and bioanalytical techniques is highly desirable.

We offer competitive salaries and comprehensive benefits, including company stock options. For immediate consideration, please send your resume via: **Mail:** BioGenex, HR-RS, 4600 Norris Canyon Road, San Ramon, CA 94583. Fax: 510/275-0580 **E-mail:** sophiee@biogenex.com. We are an equal opportunity employer. For more information, visit our website at: www.biogenex.com.

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MEDICAL UNIVERSITY OF SOUTH CAROLINA COLLEGE OF MEDICINE CHAIRPERSON DEPARTMENT OF NEUROLOGY

The Medical University of South Carolina seeks an individual recognized as a national leader in neurological patient-oriented research who has excellent clinical skills and substantial administrative experience to chair its Department of Neurology. All interested candidates with a vision for developing a strong research program within a Neurology Department in a major academic medical center are encouraged to apply regardless of their specific area of neurological research. MUSC offers outstanding opportunities to recruit new primary and jointly appointed faculty into a well-respected educational and research environment surrounded by excellence in sensory neurosciences, the addiction neurosciences, glial-neuronal communication, behavioral neurology/neuropsychiatry, and functional brain imaging. Unique opportunities exist to develop clinical, basic, and translational research programs of excellence in many areas including stroke, dementia, demyelinating disease, and neuro-oncology. A substantial clinical research infrastructure exists including the Center for Clinical Innovation and Evaluation and The Center for Health Care Research. The academic environment, including a newly appointed chair in Neurological Surgery and the new Chair of Physiology who is also Director of the Program in Basic Neurosciences, offers exciting opportunities for collaboration with colleagues in the basic neurosciences, neurosurgery, psychiatry, geriatrics, and related clinical disciplines to further the institutional goal of developing a comprehensive multidisciplinary program in the neurosciences.

In addition to certification by the American Board of Neurology and Psychiatry, candidates for this position should have a distinguished record of scholarly activity, a nationally recognized research program that can build upon the strengths and interests of MUSC, and the leadership skills to run a successful clinical practice and create a comprehensive clinical research and training program in neurology.

Interested individuals should submit a letter of application, curriculum vitae including a summary of research activities, and at least three references to: **Stephen J. Haines, M.D., Chair, Neurology Search Committee, Office of the Dean, College of Medicine, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2201.** Letters of nomination from other parties, including curriculum vitae, are welcome. Applications and nominations should be submitted by June 30, 1998.

*MUSC is an Equal Opportunity/Affirmative Action Employer.
Women and minority candidates are encouraged to apply.*

HUMAN OBESITY PHYSIOLOGIST

The Phoenix Epidemiology and Clinical Research Branch, NIDDK, invites applications for a tenure track position in physiology of human obesity. The applicant must have research experience and scientific accomplishments in the physiology of human energy balance. The applicant will be expected to pursue an independent research program as well as collaborate with a multidisciplinary group of scientists studying causes of human obesity and type 2 diabetes.

The Branch is located in Phoenix, Arizona. Applicants should send a curriculum vitae and list of publications, copies of major publications, a summary of research accomplishments, a plan for future research, and three letters of reference to **Dr. Simeon Taylor, Chair, Search Committee, Diabetes Branch, National Institute of Diabetes and Digestive and Kidney Diseases, Bldg. 10, Rm#9S211, National Institutes of Health, Bethesda, Maryland 20892-0810.**

POSITION DESCRIPTION:

The successful candidate will contribute to the scientific goals of the Phoenix Epidemiology and Clinical Research Branch (PECRB) of NIDDK. A major research area of NIDDK and an important part of the research program of PECRB are studies of the etiology and pathogenesis of human obesity and type 2 diabetes mellitus particularly among Native Americans. The research involves a multidisciplinary team of scientists, including epidemiologists, physiologists, diabetologists, biochemists, cell biologists and molecular geneticists all working in the same scientific area. Advanced physiologic methods are employed such as dual x-ray absorptiometry, whole body calorimetry and use of deuterium/oxygen 18 with mass spectrometry to measure human body composition, substrate utilization rates and energy expenditure. The physiologist using these methods works closely with clinical investigators and epidemiologists as well as with molecular biologists and geneticists to identify environmental and genetic determinants of obesity and type 2 diabetes.



Circe Biomedical

Circe Biomedical is currently searching for qualified applicants for the following two openings:

Cell Biologist: Mammalian Cell Research Bioengineer/Cell Biologist: Process Development

These exciting opportunities in our HepatAssist® Liver Support System research program require scientists with proven experience in such areas as hepatocyte isolation, functional characterization, cryopreservation, and culture techniques, including regulation of hepatocyte growth and proliferation as well as liver regeneration. Experience with human/porcine hepatocytes and/or primary cell procurement and scale-up would be a key consideration.

The successful candidates will have a Ph.D. in Cell Biology, Bioengineering, or related field in the biological sciences and 2-5 years of relevant experience. Excellent verbal and written communications skills and the ability to work as part of a multidisciplinary team are key requirements.

Circe Biomedical, Inc. is a biotechnology company committed to the development and commercialization of novel cell-based, bioartificial organ systems for the therapeutic treatment of life-threatening diseases.

For immediate confidential consideration, please send your résumé and cover letter indicating the position of interest to:

**Circe Biomedical, Inc.
Dept. RS
99 Hayden Avenue
Lexington, MA 02173**

POSTDOCTORAL POSITIONS IN CELL BIOLOGY

*Jefferson Medical College
Thomas Jefferson University
Philadelphia, PA*

Several postdoctoral positions are available in the Cell Biology section of the Department of Pathology, Anatomy and Cell Biology at Thomas Jefferson University. The department has a large, diversified faculty with extensive research support, which includes the Alcohol Research Center, an internationally recognized NIH-supported center for biophysical and cell biological studies of alcohol-related dysfunction at the cellular and subcellular level. The department has outstanding facilities for fluorescence imaging, electrophysiology and molecular biology.

Major areas of interest of the Cell Biology Faculty include signal transduction, membrane biology, ion channel function, cell injury and apoptosis, mitochondrial function, extracellular matrix, malaria, developmental biology and neurobiology. A wide range of experimental approaches is applied, including molecular biology, electrophysiology, fluorescence microscopic imaging and spectroscopy.

All positions require a Ph.D. or M.D./Ph.D. degree and experience appropriate for the projects described below. The intention is to fund these positions from an NIH training grant and, therefore, the positions are open primarily to US citizens and permanent residents. However, outstanding candidates who do not qualify as such are also encouraged to apply. Salary levels will be commensurate with the level of experience.

Christopher D. Stubbs, Ph.D.: Signal transduction involving protein kinase C and related signaling elements.

Experience in expression and purification of proteins and proficiency in basic molecular biological techniques, including PCR and construction of baculovirus and E. coli expression vectors required. Interest or experience in fluorescence imaging microscopy and other aspects of signal transduction an asset.

Jan B. Hoek, Ph.D.: Signal transduction in liver regeneration.

Positions are available for quantitative analysis of calcium-mediated signal transduction and tyrosine kinase-mediated signal transduction in the context of liver regeneration. Solid quantitative skills and experience in cell isolation, fluorescence imaging microscopy, gel electrophoresis, and Western blotting are highly desirable.

Thomas A. Rooney, Ph.D.: Regulation of neuronal survival in developing cerebellum.

A position is available to study the mechanisms through which glutamate and growth factor receptors regulate neuronal survival in developing neurons of the cerebellum. Previous experience in the preparation and maintenance of primary neuronal cultures, Western blotting and immunoblotting, gel electrophoresis, assays for analyzing apoptotic cell death and preferably fluorescence imaging is required.

Helen Anni, Ph.D.: Biomarkers for clinical testing of progression of alcoholic liver disease.

The project focuses on the identification of mimotopes and antigens related to alcohol abuse using combinatorial libraries and sera (Vitala, et al, 1997, Hepatol. 25, 1418; Felici, et al, 1993, Gene 128, 21). Experience in peptide chemistry, immunology and cell biology required.

John S. Ellingson, Ph.D. and Manuel Covarrubias, Ph.D.: Effects of membrane lipid composition on recombinant ion channels.

Various recombinant channels will be expressed in *Xenopus* oocytes, isolated and reconstituted into lipid bilayers of synthetic and natural lipids. Patch clamp techniques will be used to monitor the effects of altered lipid composition on properties of single ion channels and their interactions with ethanol and anesthetics. Experience in lipid biochemistry or biophysics; ion channel expression and recording; and reconstitution of proteins into lipid bilayers is advantageous.

Applications including a curriculum vitae, summary of research experience and names of three references should be sent by letter directly to the appropriate faculty member at the following address:

(Faculty Name), Thomas Jefferson University, Department of Pathology, Cell Biology and Anatomy, Room 271 JAH, 1020 Locust Street, Philadelphia, PA 19107.

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MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEAN OF THE FACULTY OF SCIENCE

Memorial University of Newfoundland invites applications and nominations for the position of Dean of the Faculty of Science. The Faculty has an undergraduate enrollment of 3,190 students, over 300 graduate students, and 225 faculty members. We are looking for a collegial leader with a strong commitment to teaching, research, and scholarship; demonstrated skill in human relations; and administrative experience.

Memorial University, the largest Atlantic region university in Canada, is the only university in Newfoundland and Labrador. It is geographically and philosophically oriented to take advantage of opportunities and linkages in Europe and of its marine environment. Memorial University enrolls over 15,000 undergraduate and graduate students in six faculties and seven schools. Its main campus is located in St. John's, a unique Maritime city that is entering a period of accelerated economic growth.

The Faculty of Science is organized into nine academic units: biochemistry, biology, chemistry, computer science, earth sciences, mathematics and statistics, physics and physical oceanography, psychology, and the Ocean Sciences Centre. It offers a wide variety of undergraduate and graduate degrees. The Office of the Dean of Science includes an Associate Dean (Undergraduate and Administration), an Associate Dean (Research), an Administrative Officer, and support staff. Further information is available on our Web site (<http://www.mun.ca>).

It is anticipated the appointment will take effect on May 1, 1999. Written nominations or applications, the latter accompanied by a résumé and the names of five referees, should be submitted by July 15, 1998, to:

Dr. Verna Skanes
Chair, Search Committee
c/o Office of the Vice-President (Academic)
Arts and Administration Building
Memorial University of Newfoundland
St. John's, Newfoundland, Canada
A1C 5S7
Telephone: (709) 737-8246; Fax: (709) 737-2074;
E-mail: gwoodlan@morgan.ucs.mun.ca

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Memorial University is committed to the principles of employment equity and welcomes applications from all qualified candidates.

PROLINX

Prolinx is a biotechnology company engaged in developing proprietary chemical affinity systems with numerous applications in Genomics and DNA Diagnostics. Prolinx seeks individuals who are self-motivated, well organized, possess strong communication skills and the ability to work in a multidisciplinary team environment. Individuals who "go the extra mile" are encouraged to apply.

Prolinx invites applications for the following position:

Molecular Biologist (Ref #RD5):

This individual will assist in the development of novel approaches to the purification and non-radioactive detection of DNA. Candidate should possess a solid knowledge of current molecular biological and biochemical techniques including: PCR, cDNA library generation and genomic DNA sequencing. A demonstrated knowledge of differential display or array-based technologies is a definite plus.

Requires: a Ph.D. + 2 years postdoctoral experience, or an M.S. + 5 years industrial experience in Molecular Biology.

Prolinx offers a competitive compensation and benefits package, including 401(k), company stock option plans and relocation assistance. For consideration, please send cover letter and resume, indicating appropriate Ref# to:

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This team leader will be responsible for developing program opportunities; managing a group of professionals to ensure creativity, productivity and enthusiasm; managing intellectual property; recruiting and developing a qualified staff; reviewing/supporting proposals & reports; and creating/managing annual budgets by project and cost.

This outgoing person must have both Bachelor's and Master's degrees, at least 15 years' post-Bachelor's work experience, name recognition through patents/publications/etc., and documented financial management success. It is preferred that this highly organized person have a Ph.D., at least 20 years' post-Bachelor's work experience, business unit operations of \$2 - \$10M, experience managing government-funded R&D, and time spent working in industry. Experience with intellectual property management, DOE, and strategic planning are desired.

If you desire to add value for others and achieve high quality outcomes through uncompromising integrity, send a narrative letter about yourself with your current resume to: **Creative Leadership, Inc., (Position Code C111), 11777 Bernardo Plaza Court, Suite 101, San Diego, CA 92128.**

Number One Cancer Center for the 5th consecutive year — U.S. NEWS & WORLD REPORT

POSTDOCTORAL POSITIONS

Department of Molecular Biology

Postdoctoral positions are available immediately to study the molecular mechanisms involved in the initiation and elongation of DNA chains in eukaryotic systems with particular emphasis on the role of proteins involved in these processes. Applicants should have a Ph.D. and/or M.D. with extensive experience in molecular biology and protein biochemistry. Send or fax curriculum vitae and the names of three references to: **Jerard Hurwitz, Ph.D., Memorial Sloan-Kettering Cancer Center, Molecular Biology Program, 1275 York Avenue/Box 97, New York, NY 10021. Fax 212-717-3627. E-mail j-hurwitz@ski.mskcc.org. EOE/AA.**

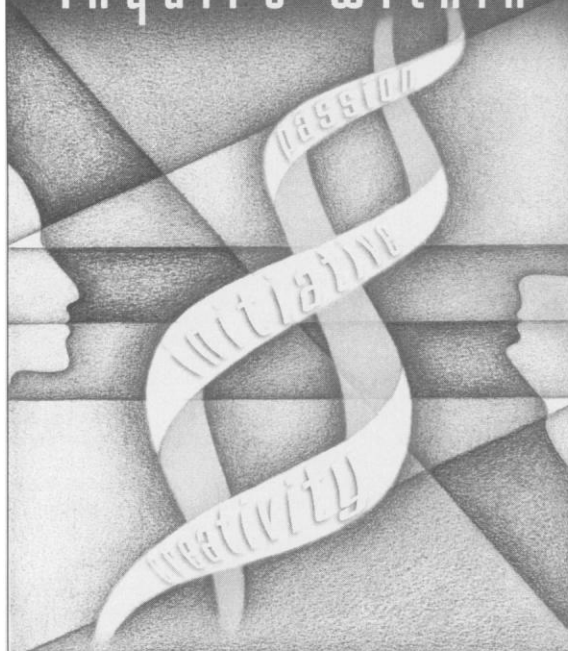


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We offer progressive benefits. Send your resume, indicating Job Code SCIBF, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Plain typefaces. E-mail your resume to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). We cannot accept faxed resumes. EOE

Post-Doctoral Research at The Wistar Institute

The Wistar Institute, dedicated to attracting the brightest minds in science, is offering post-doctoral positions on an NIH-funded training program entitled "Immunobiology of Vaccine." Selected candidates will train with immunologists, virologists, structural biologists, and chemists in the field of vaccine design and development.

Candidates must be U.S. citizens or permanent residents with a maximum of three years of post-doctoral training. Minorities are strongly encouraged to apply. We offer competitive salary and benefits, as well as the opportunity to learn from and interact with internationally recognized scientists from The Wistar Institute and the University of Pennsylvania.

If you possess the creativity, intelligence and motivation necessary to meet the high expectations of our trainers (A. Canton, W. Gerhard, E. Gonczol, H.C.J. Ertl, E. Heber-Katz, C. Hunter, R. Marmorstein, P. Offit, L. Otvos, P. Scott, and G. Trinchieri), then please forward your C.V. and three letters of recommendation to: **Andrew G. Assalian, The Wistar Institute, 3601 Spruce Street, Room 283, Philadelphia, PA 19104.** The Wistar Institute is an Equal Opportunity Employer.



POSTDOCTORAL FELLOWSHIP

IN NEW DRUG DEVELOPMENT

The Department of Clinical and Scientific Affairs (CSA), Pfizer Central Research, New York City announces its annual competition for a Postdoctoral Fellowship in New Drug Development.

The Department of Clinical and Scientific Affairs has a broad range of activities. It is responsible for designing and conducting clinical development programs for Pfizer-discovered compounds, as well as investigating and developing new claims and indications for marketed compounds. CSA also designs and conducts clinical development programs for new formulations and dosage forms of existing products.

This fellowship program is designed to provide diverse scientific training in the process of new drug development. The postdoctoral fellow will become a member of a pharmaceutical project team, and gain experience in the design and implementation of clinical research programs. While no laboratory or clinical studies are actually conducted at Pfizer in New York, the fellow will interact with specialists in his/her chosen field to have studies performed at contract laboratories, universities, and with individual investigators.

One fellowship will be awarded for clinical research related to new drug development in one of the following areas: allergy, central nervous system, gastroenterology, microbiology/infectious disease, and urology. Candidates should possess a doctoral degree (eg PhD), have a broad background in pharmacology/ physiology, have no more than one year of non-industry postdoctoral experience, and **be authorized to engage in employment in the US.** Some prior experience with clinical trials or the drug development process is desirable, but not a prerequisite. Salary will be based on qualifications and experience.

Initial applications should include: 1) curriculum vitae containing education and training, research experience, awards, and a list of publications; 2) a statement describing research interests and experience, and how the proposed postdoctoral fellowship training relates to career goals; 3) one scientific reprint, which best describes the applicant's research results. The deadline for application is Friday, May 1, 1998.

For prompt consideration, please submit a scannable (no italics, graphics or staples) resume to: **Pfizer Inc., Employee Resources, Attn: Gianni Amato, 235 East 42nd Street, 13th floor, Mail Stop #17A, New York, NY 10017. Please indicate Reference Ad Code # 98-0002908 on both resume and envelope.** Pfizer is an equal opportunity employer.



POSITIONS OPEN

NEUROSCIENCE ASSISTANT PROFESSORS LSU NEUROSCIENCE CENTER OF EXCELLENCE

Full-time, tenure-track faculty positions available from August 1, 1998. Applicants should have a Ph.D. and/or a M.D., postdoctoral training, and a record of research excellence. At least two faculty members are being sought at this time, one with expertise in molecular neurobiology using gene targeting technologies, and the other in synaptic plasticity and ion channels.

Candidates should have an established record of extramurally funded research or potential to obtain funding. Joint appointments will be made in basic science or clinical departments and in the Louisiana State University (LSU) Neuroscience Center. The Center, established in 1988, has had an interdisciplinary Ph.D. program since 1993. The Center fosters multidisciplinary research on the neurobiology of disease in stroke, epilepsy, neurodegenerative diseases (e.g., Parkinson's and Alzheimer's diseases), and retinitis pigmentosa and age-related macular degeneration. The Neuroscience Center also coordinates a human brain bank for studies of human neurologic and psychiatric disorders. A very attractive package, including space in a new research facility (about 37,000 square feet of research space) and start-up funds, is available. The LSU Neuroscience Center is located in downtown New Orleans within minutes of the historic French Quarter.

Send curriculum vitae, description of current and future research plans (up to three pages) and names and addresses of three references to:

Nicolas G. Bazan, M.D., Ph.D.
Director, LSU Neuroscience Center of Excellence
Louisiana State University Medical Center
School of Medicine
2020 Gravier Street, Suite D
New Orleans, LA 70112

LSU is an Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST. Idaho State University, Department of Biological Sciences, announces a nine-month tenure-track position for a Developmental Biologist, at the level of **ASSISTANT PROFESSOR**, commencing August 1998. The successful candidate must hold a doctorate (postdoctoral experience preferred), will train students from undergraduate to doctoral levels, and will be expected to develop a research program with emphasis in an area of developmental biology that complements existing faculty research strengths. Major teaching responsibilities will include participation in an introductory course, and an upper-division/graduate-level developmental biology/embryology course required by students who are majoring in zoology. The position will remain open until filled. Please send a letter of application, curriculum vitae, and a statement of teaching experience, teaching philosophy, and research goals. Also have three letters of recommendation sent by June 1, 1998, to: **Developmental Biologist Search Committee Chair, Department of Biological Sciences, Box 8007, Idaho State University, Pocatello, ID 83209-8007.** For information about the department see website: <http://www.isu.edu/departments/bios>. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION VISION SCIENCE

University of Alabama at Birmingham

A faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level is available at University of Alabama at Birmingham (UAB), a Carnegie Research I institution. Candidates must have a doctoral degree, an established research program, and, at the more senior levels, a record of extramurally funded research. Research that applies cellular, molecular, or imaging techniques to the study of sight-threatening diseases is of particular interest. Salary, space, and start-up funds are competitive with national levels.

Applicants should send a curriculum vitae with names of three references and a statement of research interests to: **Dr. Paul D. R. Gamlin, Chair, Faculty Search Committee, Vision Science Research Center, 626 Worrell Building, University of Alabama at Birmingham, Birmingham, AL 35294-4390.** Website: <http://spectrum.vsrc.uab.edu/>. UAB is an Equal Opportunity Employer.

POSITIONS OPEN

MOLECULAR/CELL BIOLOGIST MEMORIAL UNIVERSITY OF NEWFOUNDLAND

The Department of Biochemistry invites applications for a tenure-track position at the rank of **ASSISTANT PROFESSOR**. Applicants should possess a Ph.D. or equivalent degree and have a minimum of two years of postdoctoral training. We are particularly interested in receiving applications from individuals trained in cell or molecular biology and having a strong research interest in some aspect of signal transduction. Ligand-receptor interactions, cytoplasmic second messengers, and transcriptional regulation of gene expression are areas of particular interest to the department. Applicants should have a strong, long-term commitment to establishing and maintaining an externally funded research program as well as contributing to the department's undergraduate and graduate teaching programs. The selected applicant must be successful in obtaining a scholarship from the Medical Research Council's Regional Partnership Program or a similar agency. Applications including a full curriculum vitae, a two-page description of future research plans, and the names and addresses of at least three referees should be forwarded to: **Dr. J. T. Brosnan, Head, Department of Biochemistry, Memorial University of Newfoundland, St. John's, Newfoundland A1B 3X9 Canada.** Enquiries may be directed to: **Dr. Brosnan, e-mail: jrbrosnan@morgan.ucs.mun.ca.** The deadline for receipt of applications is May 31, 1998. *Memorial University is committed to the principle of Equity in Employment. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.*

DEPARTMENT OF PATHOLOGY COLLEGE OF PHYSICIANS AND SURGEONS COLUMBIA UNIVERSITY

Expanding clinical practice and research opportunities provide openings for **ANATOMIC PATHOLOGISTS** with subspecialty expertise in hematopathology, pediatric pathology, surgical pathology, obstetric/gynecologic pathology, immunohistochemistry.

Applicants must be Board-certified; be permanent residents or citizens of the United States; have or be eligible for a New York State medical license; and have shown clear evidence of outstanding academic achievement and diagnostic skills. Academic title and salary will be appropriate for qualifications at the level of **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or PROFESSOR.**

Interested applicants should send a curriculum vitae, the names of three references, and a brief statement of clinical expertise and research interests to:

Michael L. Shelanski, M.D., Ph.D.
Delafield Professor and Chairman
Department of Pathology
Columbia University College of Physicians and Surgeons
630 West 168th Street
New York, NY 10032

Columbia University is an Affirmative Action/Equal Opportunity Employer.

OPEN RANK. The Department of Pathology, in conjunction with the Department of Obstetrics and Gynecology and the Gene Therapy Program of the Comprehensive Cancer Center, University of Alabama at Birmingham, is seeking an individual for a tenure-track position at the level of **ASSISTANT/ASSOCIATE PROFESSOR** to join an active and growing group of Investigators in basic research and graduate education. Applicants should have a Ph.D. or M.D.-Ph.D. and are expected to develop independently funded research programs. The successful individual will be an experienced Investigator with an interest in the molecular basis of cell transformation and cancer. Individuals with training in the use of viral vectors and/or gene therapy are especially encouraged to apply. Level of appointment will be determined by qualifications. Please send a detailed curriculum vitae including description of research, recent reprints, and names of three references to: **Search Committee, Division of Molecular and Cellular Pathology, Department of Pathology, University of Alabama at Birmingham, 1670 University Boulevard, Birmingham, AL 35294-0019.** *University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minorities.*

POSITIONS OPEN

DIRECTOR WISCONSIN CENTER FOR SPACE AUTOMATION AND ROBOTICS (WCSAR) University of Wisconsin-Madison College of Engineering

The College of Engineering seeks a dynamic, self-starting Scientist or Engineer to lead the Wisconsin Center for Space Automation and Robotics into the next century. This center, a NASA Center for the Commercialization of Space, has been a leader in the development of plant growth systems used in experimentation aboard the Space Shuttle and Mir. Future manned space expeditions will depend on these sophisticated systems for plant growth experimentation in biotechnology as well as food production.

The leader of this center must hold an advanced degree in science or engineering with an agriculture-related specialty preferred. Extensive experience in directing and managing complex government/university/industry partnership programs is sought, especially involving space research and NASA contracts.

Salary commensurate with education and relevant experience.

Please provide a cover letter, curriculum vitae, and the names, addresses, and telephone numbers of three references by May 15, 1998, to:

WCSAR Director Search and Screen Committee
University of Wisconsin-Madison
2620G Engineering Hall
1415 Engineering Drive
Madison, WI 53706-1691

The College of Engineering is an Equal Opportunity Employer, and specifically invites and encourages applications from women and minorities.

USC/NORRIS COMPREHENSIVE CANCER CENTER UNIVERSITY OF SOUTHERN CALIFORNIA School of Medicine

Tenure-track position at the **ASSISTANT PROFESSOR** level. We are particularly interested in, but not limited to, candidates with research interests in the areas of cellular signaling, cancer immunology, and molecular genetics of cancer. Responsibilities will include establishment of an active research program, competition for extramural funding, and participation in medical and graduate-level teaching. The Norris Cancer Center is a comprehensive cancer center with multidisciplinary approaches to cancer research. Applicants are encouraged to submit a curriculum vitae, description of research plan, and the names of three references to: **Dr. Amy Lee, Chair of the Search Committee, Norris Cancer Center, University of Southern California School of Medicine, 1441 Eastlake Avenue, MS#73, Los Angeles, CA 90033.**

University of Pennsylvania Health System, Department of Psychiatry, is recruiting an **ASSISTANT PROFESSOR**, tenure-track, to work within the newly created Center for Neurobiology and Behavior at the University of Pennsylvania. Applicants must have a strong academic background with postdoctoral experience in monkey cortical electrophysiology. Candidates interested in interdisciplinary research with an emphasis on cognitive neuroscience are of particular interest. Newly renovated laboratory space and attractive start-up package and benefits available. Send curriculum vitae and names of three references to: **Dwight L. Evans, M.D., Professor and Chair, and Gary Aston-Jones, Ph.D., Professor, c/o Ava Plotnick, Department of Psychiatry, University of Pennsylvania, 305 Blockley Hall, 423 Guardian Drive, Philadelphia, PA 19104.** *Equal Opportunity/Affirmative Action Employer.*

SENIOR SCIENTIST

Postdoctorate with benefits. MEG and EEG of human epilepsy and somatosensory function using dipole localization methods. Whole-head MEG with low-temperature SQUIDS. Required experience in applied mathematics, physiology, computation, and knowledge of cryogenic equipment. Send curriculum vitae to: **William W. Sutherling, M.D., Director, Neuromagnetism Laboratory, Huntington Medical Research Institutes, 10 Congress Street, Suite 505, Pasadena, CA 91105.** E-mail: sutherling@msn.com; FAX: 626-792-7336.

Breakthrough OPPORTUNITIES

GeTex Pharmaceuticals, Inc. is developing novel polymer technology for therapeutic applications. The company is applying this technology to new product discovery and development. Examples include RenaGel for treatment of kidney disease; CholestaGel for treatment of lipid disorders; and evolving drug discovery programs in obesity and infectious diseases. We are seeking qualified applicants for the following positions:

Senior Scientist In Vivo Pharmacology

Position requires a Ph.D. in the biological sciences with at least 3-5 years of experience in gastroenterology or metabolic diseases. The candidate should be a highly motivated, independent scientist with an established publication record. Extensive expertise in conducting in vivo studies, or studies using tissue preparations, and in developing bioassay methodologies is required. A background in obesity research, lipid metabolism or digestive diseases is highly preferred. The candidate will be a key member of our interdisciplinary drug discovery effort within our obesity program. Please refer to Job Code CA001

Postdoctoral Scientist Biophysical/Bioanalytical Chemistry

This two-year appointment requires a Ph.D. in biophysical or bioanalytical chemistry or related field. The research will focus on quantitating and modeling the binding of target molecules to polymer-based pharmaceuticals. Training in the quantitative characterization of ligand binding and in polymer physical chemistry is essential. The ideal candidate will have significant experience with HPLC and other chromatographic methods. Experience with lipid and phospholipid systems would be a plus. Please refer to Job Code WB001

Please send curriculum vitae to Human Resources, GeTex Pharmaceuticals, Inc., Nine Fourth Avenue, Waltham, MA 02154; Fax (781)290-5890, or email us from our website at www.getextex.com

GeTex
PHARMACEUTICALS, INC.

The Science of Agricultural Genetics

SENIOR RESEARCH ASSOCIATE (Job#CP-817) Disease Resistance

Pioneer Hi-Bred International, Inc. is seeking an enthusiastic individual who will clone maize disease-related genes identified through transposon tagging, mutational analysis and QTL mapping. The successful candidate will also manage the project's genetic nursery. This position requires a Ph.D. in Plant Genetics, Molecular Genetics or related field or equivalent experience, with demonstrated cloning and fine mapping expertise. A Plant Pathology background will be an advantage. Applicants should have practical experience managing genetic nurseries, strong organizational skills, and a demonstrated ability to plan and drive simultaneous projects to timely and successful completion. Excellence in record keeping, written and oral communication, and interpersonal skills are essential. Proficiency in common and specialized computer programs is also required.

Pioneer Hi-Bred International, Inc. offers state-of-the-art genomics, expression analysis, and protein expression facilities to support gene discovery research. Visit our website at <http://www.pioneer.com/>. For confidential consideration, send 2 copies of your current resume and cover letter to: Pioneer Hi-Bred International, Inc., Attn: Human Resources - Research (Job #CP-817), P.O. Box 1004, Johnston, IA 50131-1004, USA.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics.

Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development.

Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**
An Equal Opportunity Employer



**ALLEGHENY
UNIVERSITY**
OF THE HEALTH SCIENCES

CARDIOVASCULAR & PULMONARY RESEARCH INSTITUTE

Allegheny University of the Health Sciences is a leading provider of healthcare; the largest private medical school in the U.S. in numbers of M.D. degrees granted; and a strong and growing research university. As part of the University's expansion of basic science programs at its Pittsburgh campus, its Cardiovascular & Pulmonary Research Institute (CVPRI) is presently recruiting several new faculty positions. Successful candidates will participate in a rapidly expanding interdisciplinary program aimed at developing state-of-the-art bioengineering and biotechnology research facilities.

Faculty Position Molecular Biology/Protein Chemistry

Applications are invited for a full-time faculty position to join a growing cardiac electrophysiology group in the CVPRI. The successful candidate will interact with electrophysiologists in structure-function studies relating disease models to changes in electrical and contractile activity. Some potential areas of interest include identification of channel subunit stoichiometry, identification of ancillary channel subunits, measurement of changes in protein expression levels, in-vitro reconstitution of channel properties using molecular biology and/or synthetic peptides and identification of domains involved in assembly or functional regulation of channels or ion transporters. Emphasis will be placed on excellence in molecular biology and protein chemistry. Previous experience with ion channels or transporters is desirable, but not essential. Faculty rank will be determined on the basis of prior experience.

Interested individuals may submit curriculum vitae and the names, addresses and phone numbers of four references to: Randall L. Rasmussen, Ph.D., Assistant Professor, CVPRI, Allegheny University of the Health Sciences, 320 E. North Avenue, Pittsburgh, PA 15212. (Rasmuss@WPO.AUHS.EDU)

Director, Transgenic Facility

A full-time faculty member with extensive experience in the production and maintenance of genetically altered animals is sought to direct the Transgenic Facility of the CVPRI. The successful candidate will be responsible for establishing and maintaining a facility to produce genetically altered animals of several species. The individual will also be expected to develop an independent research program supported by extramural funds. Numerous collaborative opportunities are available. Although no emphasis has been determined, individuals using molecular approaches to the study of cardiovascular development are preferred. Faculty rank will be determined on the basis of prior experience.

Please send curriculum vitae, summary of research interests and future plans, and the names, addresses and phone numbers of four references to: Stephen F. Vatner, M.D., George J. Magovern, Chair and Director, CVPRI, Allegheny University of the Health Sciences, 320 E. North Avenue, Pittsburgh, PA 15212.

Director, Musculoskeletal Bioengineering

A full-time Ph.D. or M.D. faculty researcher, with a strong background in musculoskeletal physiology and bioengineering is sought at the rank of Professor to direct the Orthopaedic Surgery Research Program which includes the Orthopaedic Research and Biomechanics Laboratories. The individual will work closely with clinicians and residents to involve them in research. This is an opportunity to work in a growing interdisciplinary environment with interactions both within Allegheny University of the Health Sciences and other universities in the Pittsburgh area including Carnegie-Mellon University's Biomedical Engineering Program. The successful candidate for this position will have a track record of scientific accomplishments, peer-reviewed publications, extramural funding, and evidence of administrative and leadership ability.

Interested individuals should submit curriculum vitae and the names, addresses and telephone numbers of four references to: James H. McMaster, M.D., Chair, Department of Orthopaedic Surgery, Allegheny University of the Health Sciences, 320 E. North Avenue, Pittsburgh, PA 15212.

Associate Director, Pathology and Imaging Core Laboratory

A full-time junior faculty researcher is sought to lead the CVPRI Pathology and Imaging Core Facility. Qualified candidates will have a Ph.D., D.V.M., M.D. or equivalent degree with 3-5 years' postdoctoral experience in cell biology and experimental pathology using immunostaining and computer assisted morphometric analysis. Experience with confocal microscopy is highly desirable. He/she must show clear evidence of academic achievements and competence in pathologic evaluation of cardiovascular tissue. The individual will carry out independent research as well as interact with other members of the cardiovascular pathology, physiology, molecular biology and biochemistry programs.

Please send curriculum vitae, and names, addresses and telephone numbers of four references to: Sanford P. Bishop, D.V.M., Ph.D., Adjunct Professor, CVPRI, Allegheny University of the Health Sciences, 320 E. North Avenue, Pittsburgh, PA 15212.

Allegheny University of the Health Sciences is an Equal Opportunity Employer. Smoke-free/Drug-free Workplace

POSITIONS OPEN

MOLECULAR BIOLOGIST ASSISTANT OR ASSOCIATE PROFESSOR Department of Biochemistry and Molecular Biophysics and The Massey Cancer Center Virginia Commonwealth University \$45,000 to \$70,000

The department is seeking an excellent Molecular Biologist. This is a tenure-track appointment at the Assistant or Associate Professor level. Applicants must hold the Ph.D. degree or equivalent, and have had at least two years of postdoctoral experience. The successful candidate will have already developed a strong, independent research program in a field related to the regulation of abnormal cell growth and proliferation, such as cell cycle controls, tumor suppression, or mechanisms of apoptosis, and have obtained extramural funding. Research emphasis on tumors of neural origin would be a plus. The successful candidate is expected to continue an excellent research program, train graduate students, collaborate with colleagues, and participate in the teaching programs of the department. Applicants should send a curriculum vitae, statement of research interests and future plans, and have three letters of recommendation sent, before June 1, 1998, to:

Chairman, Search Committee
Position No. F 0725
Department of Biochemistry and
Molecular Biophysics
P.O. Box 980614
Virginia Commonwealth University
Richmond, VA 23298-0614

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disability are encouraged to apply.

THE ROBINSON ENDOWED CHAIR IN GASTROENTEROLOGY

The University of Oklahoma Health Sciences Center invites applications and nominations for The Robinson Chair in Gastroenterology. The primary goal of the Chair is to develop, promote, and foster research in a focused and clinically relevant area of gastroenterology. Candidates should possess a strong record of leadership and achievement in scholarly activities in gastrointestinal research that complement ongoing programs at the University of Oklahoma including the areas of gastrointestinal neurophysiology, immunology, neuroimmune function, motility, and mucosal function.

The successful candidate will hold an M.D. or M.D.-Ph.D. degree and possess strong clinical, teaching, and administrative skills. The candidate would be expected to devote 75 percent of his/her time to research and 25 percent to clinical activities and teaching of GI Fellows and housestaff. The package for the Robinson Chair in Gastroenterology will include a nationally competitive salary; faculty appointment in one or more academic departments; excellent space and start-up funds for the new research team; annual interest on the \$1.8 million endowment for the academic and research program of the individual selected to the Chair.

Please send applications with curriculum vitae and nominations to:

Richard F. Harty, M.D.
Professor of Medicine
Chief of Gastroenterology
University of Oklahoma Health Sciences Center
Oklahoma City, OK 73126

An Affirmative Action Employer.

REGIONAL TOXICOLOGIST

The U.S. Environmental Protection Agency, Region VIII, in Denver, Colorado is recruiting for a Toxicologist to provide expertise in human health and ecological risk assessments in the RCRA hazardous waste program. An advanced degree in toxicology or related field is required and a working knowledge of EPA human health and ecological risk assessment guidance is desired. The position will be filled at the GS-12/13 level; salary range from \$47,588 to \$73,565 per annum depending on qualifications. *Candidates must be U.S. citizens.* Requests for official announcement and application materials should be directed to: **Valerie Taylor, Telephone: 303-312-6200.** Applications must be postmarked by May 20, 1998. *An Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF FLORIDA

The Division of Hematology/Oncology in the College of Medicine, Department of Medicine seeks to fill the **PRICE EMINENT SCHOLAR CHAIR OF BASIC SCIENCE**. We are seeking to fill this tenure-track position with a scientist, M.D., Ph.D., or M.D.-Ph.D., with experience as a Cell Biologist to conduct basic research in one or more areas of hematopoiesis, cytokine regulation and hematopoietic progenitor cells, interaction of stem cells and bone marrow stroma, differentiation between normal and malignant hematopoietic stem cells, purification of hematopoietic stem cells, purification of hematopoietic progenitor cells of different lineages, and the characterization of primitive hematopoietic progenitors of fetal origin, adult bone marrow, and peripheral blood. Salary and fringes negotiable and commensurate with experience. Recruiting deadline: June 15, 1998. Anticipated starting date September 1, 1998. Applicants should send a letter of interest and a copy of their curriculum vitae to: **John R. Wingard, M.D., Chairman, Price Eminent Scholar, Chairman Search Committee, Professor of Medicine, Director Bone Marrow Transplant Program, University of Florida, Box 100277, JHMHC, Gainesville, FL 32610-0277. An Equal Employment/Affirmative Action Employer.**

BIOTECHNOLOGY BIOCHEMISTRY/IMMUNOLOGY RESEARCH AND DEVELOPMENT

Expanding, established biotechnology company involved in drug discovery and diagnostics development seeks results-oriented applicants for:

SENIOR SCIENTIST and GROUP LEADER. With supervisory experience and record of accomplishment in discovery and development, to lead research and development staff.

SCIENTIST. With two-plus years of postdoctoral experience in above fields, or molecular and cell biology.

We are located in a desirable suburban town, close to railroad station to New York City.

Please submit a letter of application, curriculum vitae, list of publications, and names and addresses of three references to: **Ms. Ventruolo, American Diagnostica Inc., P.O. Box 1155, Greenwich, CT 06836-1155.** No telephone calls accepted.

RESEARCH ASSOCIATE. Genetics. 40 hours per week, 9 a.m. to 5 p.m. \$31,825 per year. Conduct research in preimplantation genetics, cell and tissue bank. Establish techniques to handle tissue samples. Study the use of infrared treatment for fertility problems caused by pelvic adhesions. *B.S. in biology as well as two years in job offered or Genetics Researcher required. (*Foreign medical degree acceptable.) Previous experience must include research on infrared treatment of fertility problems caused by pelvic adhesions. Two publications. *Must have proof of legal authority to work permanently in the United States.* Send two copies of both résumé and cover letter to: **Illinois Department of Employment Security, 401 South State Street, 7 North, Chicago, IL 60605. Attention: Sheila Lindsey. Reference #V-IL-18511-L.** No telephone calls. An Employer Paid Ad.

ASSISTANT PROFESSOR of physics. Gannon, a Catholic University, invites applications for the position of Assistant Professor of physics. This nine-month, tenure-track appointment will begin August 1998 and will instruct 24 credits of undergraduate physics courses including laboratories. Working knowledge of physics software and computers necessary. M.S. in physics is required; Ph.D. in physics preferred. Must demonstrate commitment to quality teaching and involvement in professional and university functions. Position open until filled. Forward résumé, most recent teaching evaluations, research plans, and three letters of recommendation describing physics teaching to: **Gannon University, Human Resource Department, 109 University Square, Erie, PA 16541-0001. FAX: 814-871-7514; e-mail: gehly001@gannon.edu. Gannon University is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR of biology to teach molecular biology, cell biology, general biology, biochemistry, and a general education science course; conduct research involving undergraduates. For details contact: **Dr. Ann Henninger, Wartburg College, Waverly, IA 50677. E-mail: ahenninger@wartburg.edu; FAX: 319-352-8606.** Wartburg is an accredited four-year, co-educational liberal arts college of the Lutheran Church (ELCA). *Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MOLECULAR RETROVIROLOGY POSTDOCTORAL AND SENIOR RESEARCH ASSISTANT POSITIONS

Available immediately to participate in ongoing research projects on simian immunodeficiency virus (SIV). Current projects focus on the significance of SIV coreceptor usage for AIDS immunopathogenesis, and the mechanisms of SIV replication in the brain determined by *env* and *nef* genes. The successful Postdoctoral candidate is expected to have a strong background in virology, molecular biology, and/or immunology. A candidate having a B.S./M.S. with extensive experience in related areas is considered as a Senior Research Assistant. Please send a letter of interest, curriculum vitae, and three references to: **Toshiaki Kodama, Ph.D., Division of Pathobiology and Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. The Oregon Regional Primate Research Center is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH AND DEVELOPMENT SCIENTIST MOLECULAR BIOLOGY

The world's leading producer of transgenic models is seeking a Ph.D.-level **MOLECULAR BIOLOGIST** with industrial experience to assume responsibility for research and development of genotyping methods including PCR and Southern blots. Working knowledge of rodent genetics and ELISA techniques desirable. Interface to transfer assays into GLP production QC operation. The position will support our Germantown and Rensselaer facilities. Send résumé and salary requirements in confidence to: **Human Resources Director, Taconic, 273 Hover Avenue, Germantown, NY 12526. FAX: 518-537-7287.** We provide competitive salary and benefits packages. *Taconic is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE RESEARCH SCIENTIST

Columbia School of Public Health has grant-funded, half- or full-time, non-tenure-track position for large epidemiology community-based studies. A Ph.D. and experience with large data systems management, field work with culturally diverse community populations, including adolescents, and with the development of psychosocial behavior-change interventions are required. Postdoctoral training in psychiatric epidemiology and experience with intervention development/implementation/evaluation and epidemiologic analysis focused on adolescents and HIV transmission strongly preferred. Submit letter of application and curriculum vitae to: **Ann Struve, Ph.D., Columbia School of Public Health, EPI PH 18, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

CYTOGENETICS LABORATORY DIRECTOR

Genzyme Genetics is seeking applicants for the position of Cytogenetics Laboratory Director for its Santa Fe, New Mexico facility. Candidates must be American Board of Medical Genetics-certified in clinical cytogenetics. Significant experience in managing a cytogenetics laboratory is required. Interested applicants should submit a letter of interest, curriculum vitae, and a list of references to:

Diane Marbourg, Human Resources Manager
Genzyme Genetics
2000 Vivigen Way
Santa Fe, NM 87505
FAX: 505-438-2277

Genzyme Genetics is an Equal Opportunity Employer that is proud of the diversity of its work force.

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

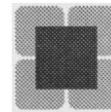
InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104

**Director
Institute for Environmental Education**

The Geological Society of America (GSA) recognizes that earth systems science is central to environmental issues, practices, policies, and problems in society today. Thus, GSA is soliciting applications for the position of Director for the Institute of Environmental Education (IEE). Through Institute programs, GSA offers an interface between the public, business and industry, government, and the geological community on matters of earth systems science and related public policy issues. The Institute fosters communication and application of geoscience information relevant to environmental issues, education and research related to earth systems problems and public policy, and programs to facilitate professional development in the area of environmental earth science.

Responsibilities will include: Development of innovative Annual and Section meeting environmental forums; Coordination of GSA public policy activities, and enhancement of a program to involve geoscientists in issues of public policy and media outreach; Initiation of workshops and technical programs on environmental and earth systems science matters related to public awareness; Management of mentorship programs that introduce students to applied environmental geoscience career opportunities; Assistance in fund-raising activities and general support of the GSA education and outreach enterprise. Plus, the successful candidate will be the principal architect of a NEW INITIATIVE to: Stimulate earth systems science activities throughout GSA; and Catalyze cooperative interactions among Earth, Life, Planetary, and Social Science groups on earth systems science.

Desirable characteristics for the successful candidate include: Interest and experience in the geosciences, particularly involving earth systems science and/or applied settings; M.S. degree required; Ph.D. in science or engineering desirable; Self-starter who is organized, productive, and able to work as part of a team; Demonstrated interest and experience in public policy issues; Fund-raising abilities; Demonstrated ability to communicate effectively both orally and in writing; Ability to work effectively with diverse groups and individuals from business, government, education, media, and the general public. The position is available July 1, 1998, and will remain open until a suitable qualified candidate has been identified. Salary will be commensurate with experience. The position will be at GSA headquarters in Boulder, Colorado. Candidates should submit a résumé, a letter of interest, and the names and addresses of three professional references as soon as possible to **Donald M. Davidson, Jr., Executive Director, Geological Society of America, 3300 Penrose Place, P.O. Box 9140, Boulder, CO 80301.**



**CHAIR
DEPARTMENT OF MOLECULAR BIOLOGY
LERNER RESEARCH INSTITUTE
THE CLEVELAND CLINIC FOUNDATION**

We are seeking a Chair for the Department of Molecular Biology, which occupies over 20,000 sq. ft. in the Lerner Research Institute. The department currently consists of 7 faculty with well-funded research programs in the areas of signal transduction, nucleic acid biochemistry, and cell cycle regulation in yeast and mammalian cells. The ideal applicant for this position will have an outstanding national reputation in an area that complements the strengths of the department. Opportunities exist for collaboration with the large clinical staff of the Cleveland Clinic and for joint academic appointments at nearby educational institutions. The Lerner Research Institute, with over 100 independent investigators in 7 departments and an annual budget of >\$50 million, has a commitment to excellence in basic and applied biomedical research. We are seeking candidates with the vision and energy to recruit other talented scientists who will synergize with current faculty. The Chair will be provided with generous space and start-up support and recruitment packages for new faculty.

Salary and fringe benefits are highly competitive. A curriculum vitae and names and addresses of three references should be sent to:

Paul E. DiCorleto, Ph.D.

Search Committee for the Chair of Molecular Biology
Cleveland Clinic Research Institute, NC10
9500 Euclid Avenue
Cleveland, OH 44195

On the Web - <http://www.ccf.org/ri/ccfri.html>

The search committee will receive applications through June 30, 1998.

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

**NAVAL RESEARCH LABORATORY
The Center for Biomolecular Science and Engineering
Laboratory for Biosensors and Biomaterial**

MATERIALS ENGINEER

Salary range: GS-806-12 (\$47,066* to \$61,190*) based on qualifications and experience.

*Includes locality pay - Base pay \$45,339 to \$58,506

Performs research and development in support of the Center and laboratory's current and future goals in multidisciplinary areas including the fields of new biomaterial design and engineering, cellular compatibility to polymeric materials, 2-D and 3-D biomaterial engineering methods, and cellular response to charge, texture, chemistry, and energetics of materials. Analyzes research problems, designs and conducts appropriate experiments in areas of importance to the Center. Assumes responsibility for design and engineering of new biomaterials with altered surface chemistry, texture, and charge and executing cellular biological experiments to characterize cellular responses to these new materials. Analyzes research problems, designs and conducts appropriate experiments in areas of importance to the Center, and communicates the research results informally to other members of the Center, and formally presents findings in reputable scientific journals and at professional meetings.

Qualification: A Ph.D. degree in professional engineering or the equivalent doctoral degree OR combination of education and experience. Candidates must have experience in biomaterials and cellular responses to materials with emphasis on macrophages, endothelial cells, fibroblasts, and neurons.

To Apply: Submit an Optional Application for Federal Employment (OF-612) or comprehensive résumé, indicating the specific vacancy ID number for which applying, on or before 4/30/98 to:

**Naval Research Laboratory
4555 Overlook Avenue, SW
Human Resources Office, Code 1810
(ID# 69-0020-97)
Washington, DC 20375-5000
Phone: (202) 767-3030**

An Equal Opportunity Employer.

Scientist

Located in the San Francisco Bay Area, **COR Therapeutics, Inc.** is a publicly-held biopharmaceutical company focused on the discovery & development of novel therapeutics for the treatment of severe cardiovascular disease. Our continued growth has created an excellent opportunity for a skilled Vascular Biologist.

In this position, you will conduct basic research in the area of vascular biology with an emphasis on the cellular mechanisms responsible for restenosis. The candidate will be responsible for the analysis of neointima formation and cellular proliferation that occur in response to vascular injury in models of restenosis. The position requires a PhD, 3+ years of postdoctoral training, and a working knowledge of the intracellular pathways involved in cell migration and proliferation. A background in the area of vascular injury, atherosclerosis or angiogenesis and training in basic histology and immunohistochemistry are a must.

COR Therapeutics, Inc. offers competitive salaries & benefits, attractive equity positions and the opportunity to make significant research contributions. To apply, please send resume & salary history to: **COR Therapeutics, Inc., Human Resources, Job# 98031-SCI, 256 East Grand Avenue, South San Francisco, CA 94080; Fax: (650) 244-9213; Email: hr@corr.com.** Principals only, please. *COR is an equal opportunity employer.*

COR COR THERAPEUTICS, INC.

POSITIONS OPEN

FACULTY POSITION IN GENE THERAPY

Children's Hospital and The Ohio State University are seeking applicants for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the area of gene therapy. This appointment is supported in part by a major initiative at the University in the molecular life sciences that will add over 30 new faculty positions in the next few years. The successful candidate will hold an advanced degree (Ph.D., M.D., D.V.M., D.D.S., or equivalent) and will be expected to develop an independent research program in gene therapy that will enhance and integrate with ongoing active programs in adeno-associated virus and retrovirus-mediated gene transfer. The faculty appointment will be in the Division of Molecular Medicine, Department of Pediatrics, College of Medicine and Public Health, The Ohio State University. Dedicated laboratory space will be located in new start-of-the-art facilities on the campus of The Children's Hospital. Applicants should submit a curriculum vitae, statement of research plans, and arrange for three letters of reference to be sent to: **Dr. Philip R. Johnson, Chair, Gene Therapy Search Committee, Room W591, Children's Hospital, 700 Children's Drive, Columbus, OH 43205. FAX: 614-722-3273.** Review of applications will commence on June 1, 1998. *Children's Hospital and The Ohio State University are Equal Opportunity/Affirmative Action Employers. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*

POSTDOCTORAL FELLOWSHIPS. Two positions are available in the laboratories of **Steven DeKosky, M.D.** and **Robert Bowser, Ph.D.**, Departments of Psychiatry, Neurology, Pathology, and Neurobiology at the University of Pittsburgh School of Medicine. The first position will study the molecular regulation of cytokine and neurotrophin expression following traumatic brain injury (TBI). Experience with *in vivo* models of TBI, *in situ* hybridization, PCR, and Northern blot analysis would be beneficial. The second position will study molecular mechanisms that regulate neurodegeneration in Alzheimer's disease (AD). We are interested in how alternative gene expression regulates disease progression during AD. Experience with DNA isolation and sequencing, cell transfection assays, gel mobility shift assays, *in situ* hybridization, and PCR would be beneficial. Preference will be given to candidates with a strong background in molecular biology and neurochemistry. Working knowledge of brain anatomy and English writing skills are essential. Send curriculum vitae and names of three references to: **Steven T. DeKosky, M.D., Department of Psychiatry and Neurology, University of Pittsburgh Medical Center/WPIC, 3811 O'Hara Street, Pittsburgh, PA 15213.** *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

Three POSTDOCTORAL POSITIONS. (1) To manage the sequencing of the 2.9 megabase chromosome IV of *A. nidulans*, a model filamentous fungus. Comparative genomics—such as between yeast and *Aspergillus*—is one primary goal of this project. (2) To study the role of signal transduction pathways on secondary metabolism in *Aspergillus* spp. Characterization of pertinent genes will include complementation of existing mutants, disruption of currently identified putative signaling genes, transcript and protein analysis as required. (3) To characterize the role of seed lipoxygenase genes in the *Aspergillus*/host interaction. Please send résumé and names of three references to: **Dr. Nancy Keller, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843-2132. E-mail: n-keller@tamu.edu.**

POSTDOCTORAL FELLOWSHIP IN MOTOR LEARNING

A position is available to participate in a research program employing several vertebrate animal models of motor learning, including classical conditioning, prism adaptation, and several operant conditioning paradigms. Techniques and approaches include chronic multiple single unit recording, inactivation studies, and experiments employing human subjects. To apply please send curriculum vitae, the names of three references, and a brief overview of your interests and previous work to: **James R. Bloedel, Chairman, Division of Neurobiology, Barrow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013. E-mail: jbloedel@mha.chw.edu.** *Equal Opportunity Employer.*

POSITIONS OPEN

Rhode Island Hospital, a Brown University School of Medicine teaching affiliate, seeks a full-time **RESEARCH ASSOCIATE** within the Division of Pediatric Surgery, to study the cellular and molecular mechanisms of liver injury regeneration and repair. The position requires a Ph.D. with extensive postdoctoral training in cell biology or physiology. A track record of publication and financial support throughout the postdoctoral period is key. Collaboration with existing NIH-funded programs is essential at the outset; however, an independent course of investigation will be strongly encouraged and supported. Start-up support will be provided but the candidate will be expected to develop extramural funding as the basis for academic promotion. The successful candidate must qualify for a faculty position at the rank of Instructor (Research) within the Department of Surgery at Brown University School of Medicine. Applications should be received by June 30, 1998. Send curriculum vitae, a statement of research objectives, and three references to: **Thomas F. Tracy, Jr., M.D., Pediatric Surgeon-in-Chief, Division of Pediatric Surgery, Hasbro Children's Hospital, Room 147, 593 Eddy Street, Providence, RI 02903.** *Rhode Island Hospital is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and protected persons are encouraged to apply.*

NIH TRAINING PROGRAM POSTDOCTORAL POSITION IN CARDIOVASCULAR PHYSIOLOGY

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

Candidates must be U.S. citizens or hold permanent resident alien status. Interested candidates are invited to apply to: **Dr. Allan M. Lefer, Professor and Chairman, Department of Physiology, Jefferson Medical College, 1020 Locust Street, Philadelphia, PA 19107-6799.**

Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH FELLOWSHIP in functional magnetic resonance imaging of human sleep and eye movement control. Available immediately in the Department of Psychiatry at the University of Pittsburgh, Western Psychiatric Institute and Clinic. This NIMH-funded position is jointly sponsored by the Sleep and Chronobiology Center, the Neurobehavioral Studies Program, and the Magnetic Resonance Research Center. The Fellow will be trained in human brain imaging, the neuroscience of human sleep and eye movements, and simultaneous fMRI and electrophysiological recordings. The Fellow will also have the opportunity to develop his/her own interests in this field. A doctoral degree in psychology, cognitive neuroscience, or related field is required. Experience with fMRI studies is preferred but not required. Stipends will be at current NIMH levels of support. Applicants should send a letter describing their interest and qualifications, a current curriculum vitae, representative papers, and names of three references to: **Daniel J. Buysse, M.D. and John Sweeney, Ph.D., 3811 O'Hara Street, Pittsburgh, PA 15213. E-mail: buyssed@msx.upmc.edu.** *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL ASSOCIATE UNIVERSITY OF MINNESOTA

Position available in NIH-funded laboratory that isolated the agent causing human granulocytic ehrlichiosis. Focus upon this emerging pathogen's interactions with human and vector cells. Ph.D. required. Experience in cell biology, intracellular organisms, signaling, receptors, and/or molecular techniques desirable. Send curriculum vitae and names of three references to: **Dr. J. L. Goodman, Box 250, 516 Delaware Street S.E., Minneapolis, MN 55455. FAX: 612-625-4410; e-mail: jesse@lenti.med.umn.edu.**

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

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE RESEARCH POSITIONS The Miami Project to Cure Paralysis

Applications are invited for two Postdoctoral/Research Associate positions at The Miami Project to Cure Paralysis, University of Miami School of Medicine. Positions are available beginning June 1998 to study mechanisms of neural transplants in pain modulation and functional recovery following peripheral and central nervous system injury. Candidates must have expertise in rodent pain models and understanding of recent advances in persistent pain mechanisms and neural plasticity. Preference will be given to candidates with additional expertise in one or more of these areas: immunocytochemistry, cell culture, neurochemical assays, or molecular biology. A Ph.D. or equivalent in neuroscience or related discipline is required. Send curriculum vitae, brief description of research interests, and three (3) references to: **Odessa T. Simmons, The Miami Project to Cure Paralysis, P.O. Box 016960 (R-48), Miami, FL 33133.** *Equal Employment Opportunity/Affirmative Action.*

POSTDOCTORAL/LECTURER POSITION UNIVERSITY OF MICHIGAN Cytochrome P450 Structure/Function/ Mechanism of Action

Postdoctoral position now available for Ph.D. in chemistry, biochemistry, molecular biology, or related field to study biological functions, structures, and mechanistic aspects of P450 isozymes. Desired: strong chemical background, research experience with publications on chemistry of membrane-bound enzymes, familiarity with analytical techniques, some experience in molecular genetics. Title of Lecturer possible for qualified candidates with previous postdoctoral experience. Send curriculum vitae and reference names, addresses, and telephone numbers to: **Prof. M. J. Coon, Department of Biological Chemistry, Medical School, University of Michigan, Ann Arbor, MI 48109-0606. Telephone: 734-764-9132; e-mail: mjcoon@umich.edu.**

POSTDOCTORAL POSITIONS IN LUNG MOLECULAR AND CELLULAR BIOLOGY Rush-Presbyterian-St. Luke's Medical Center

Long-term, NIH-funded positions are available (rank based upon qualifications) to study airway epithelial cell and matrix ultrastructure, biochemistry, and function in health and disease.

Candidates with advanced experience in cell and molecular biology, cell culture, and immunocytochemistry are encouraged to apply. Opportunities to interact with a variety of basic scientists at this and neighboring Chicago universities exist and are encouraged. Please submit résumé, including description of research interests to: **Recruitment and Career Services—GM, Rush-Presbyterian-St. Luke's Medical Center, 729 South Paulina, Chicago, IL 60612. E-mail: cmurlas@rush.edu.** *Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITION CELLULAR ELECTROPHYSIOLOGY AND CONNEXIN BIOLOGY

An NIH-funded Postdoctoral position is available immediately in the Center for Cardiovascular Research to study gap junctional conductance in cells derived from connexin-deficient and -overexpressing animals and in transfected cells. Candidate must have demonstrated expertise in whole-cell patch-clamp techniques and single-channel recordings. Please send curriculum vitae, letter describing research interests, and three letters of reference to: **Jeffrey E. Saffitz, M.D., Ph.D., Washington University School of Medicine, Box 8118, 660 South Euclid Avenue, St. Louis, MO 63110.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS IN GERM CELL DEVELOPMENT AND PROSTATE CARCINOGENESIS

POSTDOCTORAL POSITIONS are available to study bone morphogenetic protein (BMP) signal transductions in germ cell development and prostate carcinogenesis. Experience in molecular biology, development, genetics, or reproductive biology is preferred. Send curriculum vitae to: **Dr. Guang-Quan Zhao, S 141 ASRC, University of Missouri, Columbia, MO 65211. E-mail: guang_zhao@muccmail.missouri.edu.**



Department of Pharmacology

Research Assistant/ Associate Professors

Non-tenure-track faculty positions are available at Research Assistant/Associate Professor levels.

Applicants should have postdoctoral experience.

Cancer Pharmacology-Reply to Dr. Ian A. Blair, Committee

Neuropharmacology-Reply to Dr. James H. Eberwine, Neuropharmacology Search Committee

Vascular Biology-Reply to Garret A. FitzGerald, Committee

Applications, including a curriculum vitae, selected reprints or preprints, a statement of research interests, and the names and addresses of three referees should be sent to the attention of the appropriate search committee.

Department of Pharmacology

Medical School of the University of Pennsylvania

Philadelphia, PA 19104-6084

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

EUROPEAN OPPORTUNITIES

REGIUS CHAIR OF BOTANY

Applications are invited for the Regius Chair of Botany, established in 1676, and currently vacant. The post will be held in the Division of Biological Sciences (DBS) in either the Institute of Cell and Molecular Biology (ICMB) or the Institute of Ecology and Resource Management (IERM), as appropriate.

Plant science research in the Division spans a broad area, with particular strengths in plant biochemistry, molecular biology, population genetics, and environmental physiology. In addition, strong links are maintained with the Royal Botanic Garden Edinburgh, which has particular research strengths in plant taxonomy and evolutionary studies. All parts of DBS were graded 5 in the recent Research Assessment Exercise.

The successful candidate will be expected to develop a strong programme of research and provide leadership in research and in the teaching of plant science.

Please quote REF: 896270SC.

Further information may be obtained by contacting Professor W G Hill, FRS, Head of the Division of Biological Sciences (Tel: 0131 650 5525; e-mail: w.g.hill@ed.ac.uk) or Professor A J Trewas (Tel: 0131 650 5328; e-mail: trewas@ed.ac.uk).

Further particulars including details of the application procedure should be obtained from

THE PERSONNEL DEPARTMENT,
1 ROXBURGH STREET, EDINBURGH EH8 9TB

Tel: 0131 650 2511 (24 hour answering service).
Closing date: 22 May 1998.



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Excellence
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Boehringer Ingelheim Pharmaceuticals, Inc.

Bringing A World Of Science

To The World At Large.



Boehringer Ingelheim is the world's largest privately-held pharmaceutical company. From our 300-acre site in Ridgefield, Connecticut, our research, development, manufacturing and sales operations span seven countries on five continents. It is a collaborative effort that is bringing novel new drugs and renewed health to people throughout the world. Due to expansion, we have the following position available:

• Scientist

Biochemistry/Molecular Biology

The successful candidate must have a Bachelor's degree in Biochemistry, Molecular Biology or equivalent; experience with protein isolation methods; and the ability to interact with research scientists and to participate in the problem solving process. Experience with HPLC, physical biochemistry methods (e.g. circular dichroism, fluorescence spectroscopy, calorimetry, surface plasmon resonance) and protein chemistry methods is desirable.

Interested candidates, please forward your C.V. to: Boehringer Ingelheim Pharmaceuticals, Inc., Dept. TB-RI, 900 Ridgebury Rd., P.O. Box 368, Ridgefield, CT 06877-0368; Email: rd.resume@bi-pharm.com. We are an equal opportunity employer dedicated to diversity for the value it brings to our work and to our lives M/F/D/V.

http://www.boehringer-ingelheim.com
Boehringer Ingelheim

Food and Drug Administration University of Maryland Workshop of TSE Risks

The Joint Institute for Food Safety and Applied Nutrition (JFSAN), a joint endeavor of the Food and Drug Administration and the University of Maryland, will convene a workshop concerning transmissible spongiform encephalopathies (TSE's) with the collaboration of a number of government agencies and international organizations. The workshop will consider what is known, and what is critical to learn about the potential risk of TSE transmission related to source materials, processing, and the use of end-products by animals and humans. The objective of the workshop is to define the state of current knowledge and to identify practical guiding principles for evaluating the risks posed by TSEs.

International Academy, Industry, and Government Authorities on program, June 8 & 9, 1998, University Inn and Conference Center in College Park, Maryland. Additional information can be obtained through <http://www.life.umd.edu/jfsan/tse.html> or by contacting the TSE workshop team at 301-935-6083 ext. 179 or 158.

SCIOS

SCIOS is a biopharmaceutical company located in the Silicon Valley of the San Francisco Bay Area. The company is engaged in the discovery, development, and commercialization of human therapeutics focused on cardio-renal and Alzheimer's diseases. Scios is an equal opportunity employer offering competitive salaries and attractive benefits.

Barbara Cordell, PhD
Vice President Alzheimer's Research
Scios Inc.
820 West Maude Avenue
Sunnyvale, CA 94086

Interested individuals should send a complete curriculum vitae and names of three references to:

Alzheimer's projects at Scios. The neurodegeneration program is one of several interrelated and interactive therapeutic approaches for this disease. research on the biology of Alzheimer's disease and to the development of novel research has a long term commitment to experience is desirable but not required. research and cellular biology. Post doctoral research experience in the area of apoptosis and a strong background in molecular systems of Alzheimer's disease. Applicants should have previous research experience studying neurodegeneration in model systems of Alzheimer's disease. SCIOS is seeking a PhD to join a team of researchers studying neurodegeneration in model systems of Alzheimer's disease. Applicants should have previous research experience in the area of apoptosis and a strong background in molecular and cellular biology. Post doctoral experience is desirable but not required. research on the biology of Alzheimer's disease and to the development of novel therapeutic approaches for this disease. The neurodegeneration program is one of several interrelated and interactive Alzheimer's projects at Scios.

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER

POSTDOCTORAL POSITIONS available for two to three year research training in cellular and molecular biology. The multidisciplinary NIH-funded program is based in the Institute for Environmental Medicine. Applicants require Ph.D., M.D., or equivalent degree and U.S. citizenship or permanent residency. We offer an exciting environment and competitive stipends. Participating laboratories are: **P. L. Ballard**, lung development; **M. F. Beers**, posttranslational protein processing; **S. I. Feinstein**, transcriptional regulation of gene expression; **A. B. Fisher**, lysosomal PLA₂, endothelial NADPH oxidase; **H. Ischiropoulos**, peroxynitrite and protein nitration; **N. A. Kefalides**, extracellular matrix proteins; **V. R. Muzykantov**, immunotargeting to vascular endothelium; **J. Sanger**, cytoskeletal proteins; **A. D. Schreiber**, macrophage cell membrane Fc receptors; **H. Shuman**, membrane trafficking; **J. F. Strauss, III**, lipid metabolism. For an application form, write to: **Education Officer, Programs in Lung Cellular and Molecular Biology, Institute for Environmental Medicine, 1 John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6068. Website: <http://www.med.upenn.edu/~ifem>; e-mail: turbitt@mail.med.upenn.edu; Telephone: 215-898-9100; FAX: 215-898-0868. Qualified women and minority candidates are especially encouraged to apply. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION Biophysics of the Endocrine Pancreas

A position is available beginning Spring 1998 to study molecular mechanisms of pancreatic B-cell dysfunction. Techniques include video microspectrophotometry, patch clamp recording, and secretion measurements to study natural, transgenic, and knockout models of diabetes mellitus, as well as the function of cloned receptors and ion channels. The applicant will work in a highly interactive and interdisciplinary environment supported by an NIH Program Project grant (to **K. S. Polonsky, G. I. Bell, R. J. Miller, and L. H. Philipson**) in its second cycle of funding. The applicant must hold a Ph.D., M.D., or equivalent. Applicants should provide a curriculum vitae with names of three references to:

Louis H. Philipson, M.D., Ph.D.
Department of Medicine
University of Chicago
5841 South Maryland Avenue
Chicago, IL 60637
FAX: 773-702-9194
E-mail: l-philipson@uchicago.edu

The principle of the University of Chicago has been to appoint individuals without regard to race, color, religion, sex, or national origin.

CELL AND MOLECULAR BIOLOGY EXTRACELLULAR MATRIX AND CELL GROWTH CONTROL

Two **POSTDOCTORAL POSITIONS** available immediately to join an interactive program centered on adhesion-based regulation of cell growth and motility.

Dr. Paul Higgins: molecular basis of adhesion-dependent control of growth-related genes in normal and transformed cells.

Dr. Paula McKeown-Longo: Role of fibronectin matrix assembly in the regulation of signal transduction pathways important in cell motility and cell growth.

A Ph.D. and relevant experience is required. Salaries range from \$28,000 to \$35,000 depending on experience. Send a curriculum vitae and two (2) letters of recommendation to:

Sarah Perrotte
Administrative Assistant
Cell and Molecular Biology Program (165)
Albany Medical College
47 New Scotland Avenue
Albany, NY 12208

POSTDOCTORAL POSITION. Vascular and urinary bladder smooth muscle function. Focus is on ion channels, and regulatory mechanisms in smooth muscle excitability using molecular Ca²⁺ imaging and electrophysiological techniques. Send curriculum vitae, names of references to: **Dr. Mark Nelson, Chair, Department of Pharmacology, University of Vermont, Burlington, VT 05405. E-mail: nelson@salus.med.uvm.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION DEVELOPMENTAL BIOLOGY UCLA

A position in the UCLA Comprehensive Cancer Center will be available July 1, 1998, for a minimum of two years to study organogenesis and hypoxic regulation of angiogenesis in the developing mouse embryo. Experience in transgenic mouse technology (particularly with knockouts); with experimental studies on mouse embryology; and with molecular biological techniques, is essential. The position offers a competitive salary. Send application, including curriculum vitae, and names, addresses, and telephone numbers of three references to: **Oliver Hankinson, Ph.D., Department of Pathology and Laboratory Medicine, University of California, Los Angeles, Center for Health Sciences, Box 951732, Los Angeles, CA 90095-1732. FAX: 310-794-9272; e-mail: ohank@pathology.ucla.edu.**

UCLA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Two Postdoctoral positions available for highly motivated/creative individuals to study regulation of cellular signaling and tumor cell growth by EGF receptor family members. First position will focus on signaling, DNA repair, and apoptosis. Second position requires an experienced Fellow who will develop/investigate growth factor signaling-based novel approaches to inhibit growth and progression of tumor cells, using *in vivo* model systems. Documented expertise in molecular biology and animal models/mouse genomics preferred. Highly competitive salaries. Send curriculum vitae and contact information for three references to: **Rakesh Kumar, Ph.D., Cell Growth Regulation Laboratory, Box 36, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and smoke-free environment.**

POSTDOCTORAL POSITION IN MOLECULAR PARASITOLOGY

A **POSTDOCTORAL POSITION** is available to study the molecular and cell biology of membrane transport proteins in *Leishmania* and African trypanosomes. Principle areas of interest include subcellular targeting mechanisms of glucose transporters and molecular characterization of nucleoside transporters. Applicants should have a background in molecular biology and/or biochemistry, but previous experience in parasitology is not necessary. Please submit a letter of interest, curriculum vitae, and names of references to: **Dr. Scott M. Landfear, Department of Molecular Microbiology and Immunology, Oregon Health Sciences University, 3131 S.W. Sam Jackson Park Road, Portland, OR 97201. E-mail: landfear@ohsu.edu. OHSU is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study signal transduction in *S. cerevisiae*. We are investigating the regulation of G_{βγ} signaling with particular emphasis on the role of the G_α subunit in down-regulation of the yeast mating response (see website: http://lmb1.bios.uic.edu/bios/lmb/lmb_faculty/Stone/Stone.html). Expertise in protein biochemistry and molecular biology is required. A Senior Postdoctorate is sought, but all applicants will be considered. Send a detailed curriculum vitae and names of three references to: **Dr. David Stone, University of Illinois at Chicago, Laboratory for Molecular Biology, 900 South Ashland Avenue (M/C 567), Chicago, IL 60607. FAX: 312-413-2691; e-mail: u62248@uicvm.uic.edu. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL ASSOCIATE RESEARCH TECHNICIAN

Positions in the area of DNA repair enzymes and microgravity crystal growth are available immediately for candidates with expertise in the areas of molecular biology, protein chemistry, and/or crystallography. The laboratories are located in the new Wolfe Hall Research Complex with excellent X-ray diffraction facilities. See website: <http://www.chem.utoledo.edu/chem/>. Send curriculum vitae and names of three references to: **Dr. Gloria Borgstahl, Department of Chemistry, University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606-3390. FAX: 419-530-4033; e-mail: gborgst@uoft02.utoledo.edu.**

POSITIONS OPEN

INFECTIOUS DISEASES

POSTDOCTORAL FELLOW position is available immediately to join a research group studying infectious diseases. Selected individual will primarily be required to conduct independent research on bacterial pathogens and write up results for publication. Research will emphasize biochemical and molecular characterization of virulence determinants in *Legionella*. Ph.D. required and a record of productive experience in infectious diseases preferred. Send curriculum vitae and names and addresses of three references postmarked by June 5, 1998 (or until a suitable candidate is found), to: **Dr. Jeff Cirillo, Department of Veterinary and Biomedical Sciences, University of Nebraska-Lincoln, P.O. Box 830905, 120 VBS, Lincoln, NE 68583-0905. FAX: 402-472-9690; e-mail: jcirillo@unlvm.unl.edu. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity; is responsive to the needs of dual career couples; and assures reasonable accommodation under the Americans With Disabilities Act. Contact: **Dr. Cirillo, Telephone: 402-472-2952** for additional information.**

POSTDOCTORAL POSITION available to study the cell biology of developing T lymphocytes. Particular research interests include control of pre-TCR function; identification of the pre-TCR's downstream targets; regulation of alpha/beta TCR expression by transacting factors in the endoplasmic reticulum; and the role of tyrosine kinases in regulating protein transports. Motivated candidates with a strong background in molecular/cell biology or immunology are preferred. Applicants should send curriculum vitae and three references to: **David L. Wiest, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-2412; e-mail: dl_wiest@fccc.edu. We are an Equal Opportunity Employer.**

POSTDOCTORAL POSITION BRIGHAM AND WOMEN'S HOSPITAL HARVARD MEDICAL SCHOOL

Position available to investigate the molecular basis of Kaposi's sarcoma-associated herpesvirus (HHV-8) oncogenesis. Work will focus on viral gene expression and molecular mechanisms of viral transformation. Location in new facility on same floor as major EBV and herpesvirus groups. Send curriculum vitae and names of three references to: **Dr. Kenneth Kaye, Division of Infectious Diseases, Brigham and Women's Hospital, 181 Longwood Avenue, Boston, MA 02115. FAX: 617-525-4251; e-mail: kkaye@rics.bwh.harvard.edu.**

POSTDOCTORAL RESEARCH position available immediately in the Laboratory for Molecular Biology (LMB) at the University of Illinois at Chicago (UIC) to study prokaryotic signal transduction in *Bacillus subtilis*. Projects include biochemical, genetic, molecular, and structure-function analysis of the signal transduction network regulating the phosphate deficiency response. Send curriculum vitae, description of research experience, and three letters of reference to: **Dr. F. Marion Hulett, University of Illinois at Chicago, Laboratory for Molecular Biology, 900 South Ashland Avenue (M/C 567), Chicago, IL 60607. FAX: 312-413-2691; e-mail: hulett@uic.edu. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION with **Dr. Gerd Pfeifer**. The Department of Biology at City of Hope National Medical Center/Beckman Research Institute has a position available to work in the field of DNA repair and mutagenesis in mammalian cells. A Ph.D. degree and experience in molecular biology techniques (such as PCR, DNA sequencing) are required. Interested candidates should send curriculum vitae to: **Shelley Tam, Senior Recruiter, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-301-8182; e-mail: cohapply@smtpink.coh.org. Please reference #14459. Equal Opportunity Employer.**

Southern Illinois University/Neurology is seeking a **RESEARCH ASSOCIATE** for July 1, 1998, to study mechanisms of epilepsy using multidisciplinary techniques. A Ph.D. or M.D. and basic research experience, preferably in neurobiology, are required. Send curriculum vitae and three references to: **Dean Naritoku, Southern Illinois University-Neurology, P.O. Box 19230, Springfield, IL 62794-1316 USA. Website: <http://siumed.edu/neuro>. An Equal Opportunity/Affirmative Action Employer.**



deCODE genetics Inc.

deCODE genetics is a population-based genomics company which recognizes that the scarce resource in human genetics today is the study population. The company was founded in 1996 in Iceland, a country with a population of 270,000 people, all descendant from a 7th century founding population that expanded in geographical isolation. This setting provides an ideal "captive" population which is homogenous and exhibits founder effects for many traits. Iceland has computerized centuries of genealogy and it provides a high quality health care system. All of these qualities enable deCODE genetics to more swiftly discover disease-related genes for the common complex genetic diseases.

Research Scientists

We are hiring energetic and creative Research Scientists who will be involved in positional cloning projects and the nationwide genotype/genealogy/phenotype database projects using our state of the art robotics and sequencing instruments. Candidates must have a Ph.D. and a strong background in genetics, molecular biology, protein biochemistry, or cell biology.

Bioinformatics – Statistical Genetics

We are seeking scientists with a solid background in bioinformatics. Applicants with a strong theoretical background in sequence algorithms such as homology and gene searches as well as practical experience in implementing these algorithms are urged to apply. We are also seeking individuals with expertise in databases, data warehouses, and data mining. Consideration for positions in statistical genetics requires a Ph.D. degree.

Please send a detailed CV to: Director of Personnel, DeCODE genetics, Lynghals 1, Reykjavik, Iceland 110. Fax: 354-570-1901, e-mail: employment@decode.is.

EUROPEAN OPPORTUNITIES

Call for Proposals

BMBF Competition "BioFuture"

The Federal Ministry of Education, Science, Research and Technology (BMBF) intends to give **younger scientists** from Germany and abroad who are already **experienced in heading a research group** the opportunity to work on new, basic research-oriented approaches in the biosciences in Germany, independently and in their own team in order to generally improve chances for a further career in science or economy in Germany or to aim at self-employment in the private sector (e.g., by setting up businesses or spin-out companies) in the medium term.

The teams (staff: 1 group leader, 1–2 postdocs, 1–2 doctoral students, 1–2 technicians; investments and expendable materials; depending on technical support required each) are to work for a period of 5 years on topics in the frontiers of biology and neighbouring disciplines such as chemistry, physics, mathematics, informatics, engineering sciences, nanotechnology, etc.

For the projects selected by a jury, nonrepayable grants will be awarded in the form of project funding.

Deadlines: May 15, 1998 (first call), July 15, 1998 (second call), January 15, 1999 (third call).

Further information:

Internet: <http://www.kfa-juelich.de/beo/biofutur.htm>
or Forschungszentrum Jülich GmbH
Projekträger Biologie, Energie, Umwelt
D-52425 Jülich, Germany
tel.: +49 2461 61-4296 or -3855;
fax: +49 2461 61-2730 or -2690

ANNOUNCEMENT

Tyrosine Phosphorylation and Cell Signaling

August 15 - 19, 1998

The Salk Institute
San Diego, CA

Organizers: Bart Sefton and Tony Hunter
Keynote Speaker: Nicholas K. Tonks

Topics to be covered include: Receptor protein kinases • Cytokine receptor signaling • Lymphocyte activation • Protein phosphatases • Adaptors and signaling domains • Cytoplasmic and nuclear protein kinases • Lipid signaling pathways • Structures of signaling molecules • Genetic analysis of signaling in growth and development • Cell adhesion and cell-cell mediated signaling

This meeting is the 4th in a series that alternates between the Cold Spring Harbor Laboratory and The Salk Institute. The meeting will consist of short talks and poster sessions. Speakers will be selected from those who submit an abstract.

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

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

POSITIONS OPEN

DERMATOPATHOLOGIST SURGICAL PATHOLOGIST

The Department of Pathology, Immunology, and Laboratory Medicine at the University of Florida College of Medicine invites applications for two faculty positions. An opening is available for two non-tenure-track faculty positions at the **CLINICAL ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants should have an M.D. or D.O. degree and be Board-certified in anatomic pathology and qualified in dermatopathology. The position will be as a Surgical Pathologist with emphasis in dermatopathology and some responsibilities in surgical pathology and/or cytopathology. Scholarly study and investigation of dermatologic diseases is expected. Successful applicant will contribute to medical student education and to the training programs for Housestaff in pathology and the Division of Dermatology. Applicants should send a letter of application outlining interests, and a copy of curriculum vitae by May 1, 1998, along with three letters of reference to:

Gregory Y. Lauwers, M.D.
Search Committee Chairperson
University of Florida
College of Medicine
Box 100275 JHMHC
Gainesville, FL 32610-0275

Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITION. College of Agricultural Sciences, Penn State. Immediately available to study cellular regulation of the Ah receptor pathway. Current studies are focused on delineating the role of co-activators, immunophilins, heat shock proteins, and protein phosphorylation in regulating Ah receptor activity. Applicants should have a Ph.D. in toxicology, biochemistry, or related field. Salary is competitive and commensurate with experience. Submit curriculum vitae and names of three references to: **Dr. Gary H. Perdew, Center for Molecular Toxicology, Department of Veterinary Science, 115 Henning Building, Penn State University, University Park, PA 16802. E-mail: ghp2@psu.edu. Affirmative Action/Equal Opportunity Employer.**

The Laboratory of Ocular Therapeutics of the National Eye Institute has a **FELLOWSHIP** available for a **CHEMIST** to join a team in the isolation, characterization, and identification of naturally occurring enzyme regulators in human and animal tissues. The position is available approximately July 1, 1998. The incumbent should have postdoctoral experience in HPLC and mass spectroscopy for the characterization and identification of proteins, polypeptides, and biochemical intermediates. Experience on a Finnigan LCQ Benchtop system is beneficial. The salary range, dependent on experience, is \$45,000 to \$60,000. *This position is open to U.S. citizens.* Please send a curriculum vitae and two letters of reference to: **Dr. Peter F. Kador, Chief, Laboratory of Ocular Therapeutics, 10 Center Drive MSC 1850, NIH, Bethesda, MD 20892-1850 by May 30, 1998. Telephone: 301-496-6993; FAX: 301-402-2399.**

POSTDOCTORAL POSITION MOLECULAR CELL BIOLOGY Washington University School of Medicine

Position available to study regulation of cell surface receptors/endocytosis and the role of the ubiquitin system. Experience in molecular/cellular biology and/or biochemistry required. Send curriculum vitae and three reference names to: **Alan L. Schwartz, Ph.D., M.D., Box 8116, Washington University School of Medicine, St. Louis, MO 63110. E-mail: schwartz@kids.wustl.edu. An Equal Opportunity/Affirmative Action Employer. Minorities/Females/Disabled/Veterans.**

RESEARCH ASSISTANT PROFESSOR in molecular oncology. Two positions. Requires Ph.D. with minimum of three years of postdoctoral experience. First position requires experience in gene cloning and library construction. Second position requires expertise in developing and applying retroviral vectors. Duties include conducting research in molecular biology of cancer, supervising technicians and graduate students, acquiring extramural funding. For fullest consideration, apply by May 8, 1998. Send curriculum vitae, names and addresses of three references to: **Igor B. Roninson, Ph.D., Department of Molecular Genetics (M/C 669), University of Illinois at Chicago, 900 South Ashland Avenue, Chicago, IL 60607-7170. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

COVANCETM THE DEVELOPMENT SERVICES COMPANY STUDY DIRECTOR TOXICOLOGY

Covance Laboratories Inc., a leading contract research organization, has an exciting opportunity for a Study Director in toxicology. The incumbent will manage and supervise a major program in the department, Developmental and Reproductive Toxicology (DART). They will be expected to provide leadership to other scientific and technical staff; provide training, mentorship, and supervision for the development and performance of other Staff Scientists; supervise and/or maintain clients' interactions for study designs, management, analysis and interpretation, scientific and regulatory consultation or representation, and business development; and supervise the implementation of new scientific or technological innovations and product lines.

Requirements include Ph.D./D.V.M. in toxicology or related area with 10 years or more experience in the conduct and evaluation of preclinical toxicology studies; demonstrated experience in the management and/or supervision of scientific staff; excellent scientific skills and credentials; ability to maintain current regulatory awareness (domestic and foreign) in areas of product development; excellent communication and interpersonal skills; strong computer and presentation skills; DABT certification is desirable.

Covance Laboratories Inc. offers a competitive salary and comprehensive benefits package, including educational assistance. For immediate consideration, send résumé to: **Covance Laboratories Inc., 9200 Leesburg Pike, Vienna, VA 22182-1699, Attn: SG-Science. Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans. Covance Laboratories Inc. promotes a drug-free work environment.**

ASSISTANT AND ASSOCIATE OPPORTUNITIES

The Derald H. Ruttenberg Cancer Center at the Mount Sinai School of Medicine invites applications for tenure-track faculty positions at the Assistant and Associate Professor levels. We seek outstanding Investigators with research programs in cancer biology, cancer genetics, or molecular therapeutics with emphasis on cell cycle regulation, metastasis, or angiogenesis.

New faculty members will join an exciting, interactive environment in state-of-the-art research facilities and participate in the implementation of innovative graduate programs.

We offer an excellent salary and benefits package. Applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to: **The DHRCC Search Committee, Derald H. Ruttenberg Cancer Center, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1130, New York, NY 10029-6574. We are an Equal Opportunity Employer fostering diversity in the workplace.**

POSTDOCTORAL POSITION University of Colorado, Boulder

Available immediately, to study molecular basis of oxygen sensing and role of heme proteins in oxygen-regulated gene expression in yeast. Candidates should have a Ph.D. in biochemistry or molecular biology and experience in gene expression. Knowledge of recombinant DNA techniques, biochemistry of heme proteins, or yeast molecular genetics desired. Send curriculum vitae along with names of three references to: **Dr. R. O. Poyton, Department of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309. E-mail: poyton@spot.colorado.edu.**

Howard University (HU) seeks **PROJECT COORDINATOR** for Africa America Diabetes Mellitus study. Requires M.D. or comparable degree. Must interface with collaborators at HU, NIH, and medical centers in Ghana and Nigeria. Send cover letter, curriculum vitae, names and addresses of three references to: **Dr. Georgia Dunston, Howard University, College of Medicine, Washington, DC 20059. Salary commensurate with qualifications. Closing date June 1, 1998. HU is an Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available to study the molecular basis of interactions between the central nervous system and the immune system. To be considered, candidates will be highly qualified with backgrounds in molecular neurobiology and/or molecular immunology. NIH-funded projects focus on the effects of HIV in the nervous and immune systems, with emphasis on signal transduction pathways involved in cytokine and neurotrophic gene regulation, regulation of cytokines within the central nervous system, and the involvement of cytokines in HIV-induced alterations in behavior.

Send curriculum vitae and the names of three references to: **Dr. Mark R. Opp, Department of Psychiatry and Behavioral Sciences, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0431. FAX: 409-772-3511; e-mail: mark.opp@utmb.edu. Salaries are based on the new NIH stipend levels for NRSAs. UTMB is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled/Veterans. U.S. citizenship or permanent residency is required.**

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available immediately to perform neurophysiology experiments in behaving monkeys to study functions of brain monoaminergic systems. The successful applicant will join an active group recording noradrenergic and dopaminergic neurons in locus coeruleus and midbrain during performance of cognitive tasks. Position is within the newly created Laboratory of Neuromodulation and Behavior, an interdisciplinary group of Neuroscience Researchers. Applicants must have a strong academic background with neurophysiology experience. Competitive salary and benefits. Send curriculum vitae and names of three references to: **Dr. Gary Aston-Jones, Professor, Department of Psychiatry, University of Pennsylvania, VAMC (151), University and Woodland Avenues, Philadelphia, PA 19104.**

POSTDOCTORAL POSITION GENE TRANSFER AND GENETIC IMMUNIZATION

NIH-funded position is available July 1, 1998, to study gene transfer and genetic immunization using recombinant adeno-associated virus (rAAV) vectors. Required experience includes demonstrated expertise in molecular biology, virology, and mammalian cell culture. Appointments will be in the Division of Molecular Medicine, Department of Pediatrics, College of Medicine, The Ohio State University. Research will be performed in new state-of-the-art laboratory and vivarium facilities on the campus of The Children's Hospital. Applicants should send a curriculum vitae and arrange for three letters of reference to be sent to: **Dr. Phillip R. Johnson, Room W591, Children's Hospital, 700 Children's Drive, Columbus, OH 43205. FAX: 614-722-3273; e-mail: johnsonp@pediatrics.ohio-state.edu.**

RESEARCH ASSOCIATE

A Research Associate (Ph.D., Postdoctoral level) position is available to investigate mitogenic signaling pathways involved in prostate growth and neoplasia. Applicants with a strong background in molecular biology and biochemistry are requested to send/FAX a curriculum vitae with three letters of recommendation to: **David T. Price, M.D., Department of Surgery/Division of Urology, Box 2621, MSRB, Duke University Medical Center, Durham, NC 27710. FAX: 919-684-3805; e-mail: price011@mc.duke.edu.**

POSTDOCTORAL POSITION to study molecular mechanisms underlying behavioral response to amphetamine using differential-display PCR and other molecular biological techniques. Please send curriculum vitae, statement of experience and interests, and names of three references to: **Neil Richtand, M.D., Ph.D., Director, Division of Molecular Neurobiology, University of Cincinnati Department of Psychiatry, P.O. Box 670559, Cincinnati, OH 45267-0559. E-mail: neil.richtand@uc.edu.**

POSTDOCTORAL POSITION available to study cell cycle regulation of DNA replication in *S. cerevisiae*. Current work focuses on the role of Dbp4p and its interactions with the kinases Cdc5 and Cdc7 (PNAS 94:3151, 1997; MCB 16:6775, 1996). Send curriculum vitae and names of references to: **Dr. Chris F. J. Hardy, Washington University School of Medicine, 660 South Euclid, Box 8228, St. Louis, MO 63110. E-mail: chardy@cellbio.wustl.edu.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION

Position is available at the Medical University of South Carolina's Hollings Cancer Center, to study the genetic aspects of antifolate resistance in childhood leukemia. The successful candidate will join an NIH-supported laboratory, and a reference laboratory for a major cooperative group. Ph.D. and experience in molecular biology techniques essential. Send curriculum vitae with names of three references to: **Dr. Julio Barredo**, Department of Pediatrics, Biochemistry and Molecular Biology, Medical University of South Carolina Children's Hospital, Charleston, SC 29425. FAX: 803-792-8871; e-mail: barredjc@musc.edu.

SENIOR POSTDOCTORAL FELLOW MOLECULAR BIOLOGY

Senior Postdoctoral Fellowship position for Ph.D. in molecular biology at molecular medicine center. Requirements include molecular biology skills, experience in mammalian gene therapy development, good publications record, and good writing skills. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and names of three references to: **David J. Baylink, M.D.**, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.

POSTDOCTORAL FELLOWS. University of Arkansas for Medical Sciences (UAMS) Pain Neurobiology Laboratory committed to research on long-term effects of pain is seeking Fellows with experience in molecular/anatomical methods, handling rat pups, image capture, and quantification of cell staining/ISH data. Salary/rank commensurate with experience, excellent benefits. Send curriculum vitae and three references to: **K. S. Anand**, Arkansas Children's Hospital, S-431, 800 Marshall Street, Little Rock, AR 72202. E-mail: anandsunny@exchange.uams.edu. UAMS is an Equal Opportunity/Affirmative Action Employer.

GLOBAL OPPORTUNITIES

HEAD OF FOOD SCIENCE AND NUTRITION DEPARTMENT COLLEGE OF AGRICULTURE Sultan Qaboos University Sultanate of Oman

Sultan Qaboos University, the National University of the Sultanate of Oman, invites applications for Head of Department (Full or Associate Professor), Food Science and Nutrition Department, College of Agriculture.

The incumbent will provide leadership for the overall organization and administration of teaching, research, and service activities of the Department. The successful candidate is expected to develop, improve, promote, and stimulate quality and relevant academic programmes in the Department, and to provide leadership, active participation in curriculum development, and inspiration to the staff and students to pursue high standards of learning and scholarship. The incumbent is responsible for the selection, training, assignment, and evaluation of personnel; planning and budgeting for facilities and equipment; recommending the hiring, promotion, termination, and discipline of staff; liaison with relevant departments in the University and government agencies and private sectors; exploiting extramural support and collaborative research; and implementing research projects and disseminating research findings.

Applicants should possess a Ph.D. degree in food science, food technology, food engineering, or related disciplines from a reputable university, with professional credentials of a high order, sufficient to meet the criteria for Full or Associate Professorship. Proficiency in spoken and written English is required. Candidates with at least 10 years of experience in a full-time appointment on the academic staff of a recognized and reputable academic institution, who have demonstrated the professional growth and potential for leadership, are desirable.

Apart from a very attractive tax-free base salary, the University offers free furnished accommodation, two years of renewable employment contract with end-of-service gratuity, annual leave with return air tickets, and free medical treatment in Government Hospitals.

Interested candidates are required to submit a letter of application and full curriculum vitae, quoting our Ref: ADV/AGRI/04/98, to:

**The Director, Personnel Affairs
Sultan Qaboos University
P.O. Box 50, Al-Khod - 123
Sultanate of Oman
E-mail: personel@squ.edu.om**

POSITIONS OPEN

POSTDOCTORAL POSITION CHROMATIN BIOCHEMISTRY/GENETICS

A Postdoctoral position is available to study the function and mechanisms of multiprotein chromatin remodeling complexes (*Cell* 87:1249-1260; *TIBS* 23:20-25). Experience in either yeast genetics, protein purification, or molecular biology required. Please send a curriculum vitae and the names of three references to: **Dr. Bradley R. Cairns, c/o Christa Devlin**, Huntsman Cancer Institute, 15 North 2030 East, Suite 4110A, University of Utah, Salt Lake City, UT 84112.

Pangene Corporation is a growing start-up company in the San Francisco Bay Area commercializing homologous recombination technologies. **STAFF, POSTDOCTORAL, and RESEARCH ASSISTANT** positions are available in (1) mechanisms of recombination and gene targeting and (2) genetic instability and cancer biology. Please send curriculum vitae with references to: **Pangene Corporation**, 333 Ravenswood Avenue, Menlo Park, CA 94025. FAX: 650-859-4326.

RESEARCH ASSISTANT

Research Assistant position available immediately to study the role of vascular mediators in intrauterine growth restriction and preeclampsia using animal model systems. Candidates must have a B.S./M.S. An interest in animal surgery and experience in molecular biology required. Please send curriculum vitae and the names of three references to: **Larry G. Thaele, Ph.D.**, Division of Maternal-Fetal Medicine, Evanston Hospital, Evanston, IL 60201.

POSTDOCTORAL POSITIONS are immediately available to study lymphocyte development, leukemia, and breast cancer (*Cell* 79:893-900; *MCB* 17:844-850, 5888-5896; *JBC* 273:7030-7037). Interested individuals recently obtained Ph.D. in molecular biology, immunology, and cancer biology please contact: **Dr. Xiao-Hong Sun**, Department of Cell Biology, New York University Medical Center, New York, NY 10016. E-mail: sunx01@mcrcr6.med.nyu.edu.

ANNOUNCEMENT

BELLE AWARD

The Biological Effects of Low Level Exposures (BELLE) Advisory Committee announces that **Dr. Sheldon Wolff**, University of California, San Francisco and the Radiation Effects Research Foundation, Hiroshima, Japan is the recipient of the 1998 Leonard Sagan BELLE Award for outstanding scientific contributions providing important insights regarding the biological actions of chemicals and/or radiation at the low end of the dose-response curve.

Nominations for the 1999 Leonard Sagan BELLE Award should include a two-page summary of the nominee and should be received by June 29, 1998, in the BELLE Office. The recipient will receive an honorarium and plaque and will provide a synopsis of their work for publication in the journal *Human and Experimental Toxicology*.

BELLE, which represents a cooperative activity of representatives of various federal agencies, private-sector companies, and universities, was established in 1990 and is administered by the University of Massachusetts in Amherst under the direction of **Professor Edward J. Calabrese**.

Nominations should be sent to: **BELLE Office**, Northeast Regional Environmental Public Health Center, School of Public Health, University of Massachusetts, Amherst, MA 01003. Telephone: 413-545-3164; FAX: 413-545-4692; e-mail: belle@schoolph.umass.edu; website: www.belleonline.com.

COURSES & TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND SCIENTISTS

A one-week intensive course sponsored by the Massachusetts Institute of Technology. July 27-31, 1998, Cambridge, Massachusetts. **Dr. Richard J. Cohen**, Program Director. Basic principles of cardiovascular physiology, cardiovascular medicine, diagnostic and therapeutic technologies. Contact: **Director of the MIT Summer Session**, Telephone: 617-253-2101.

COURSES & TRAINING

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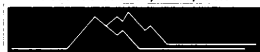
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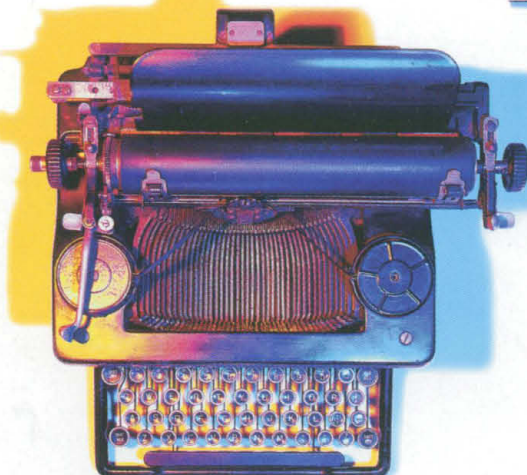
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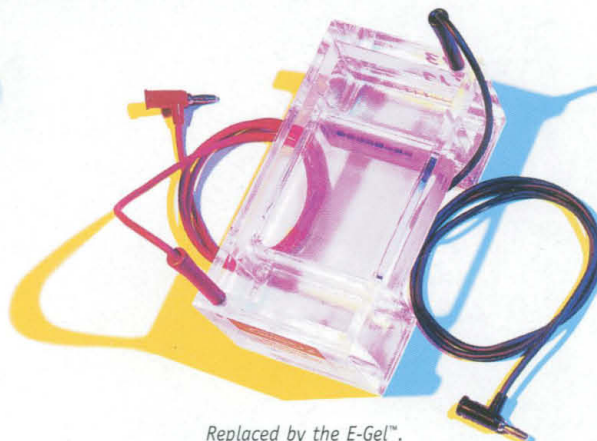
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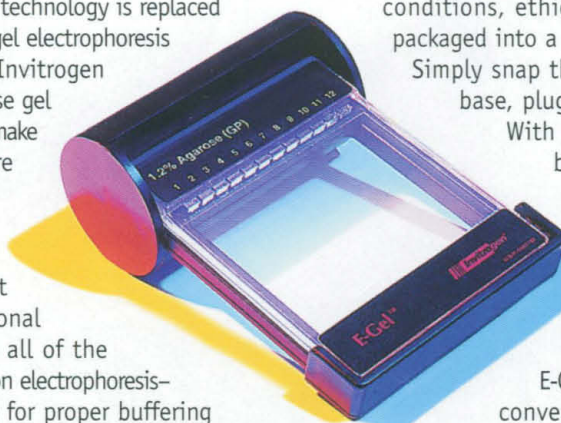


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