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Figure 1.

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(continued from page 1231)

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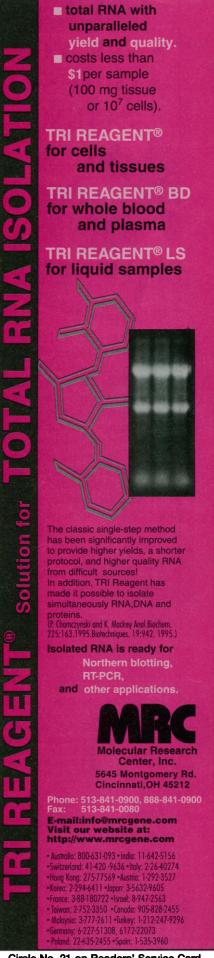
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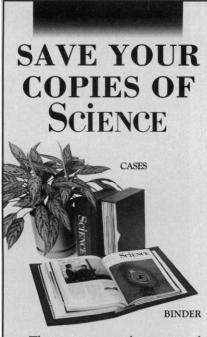
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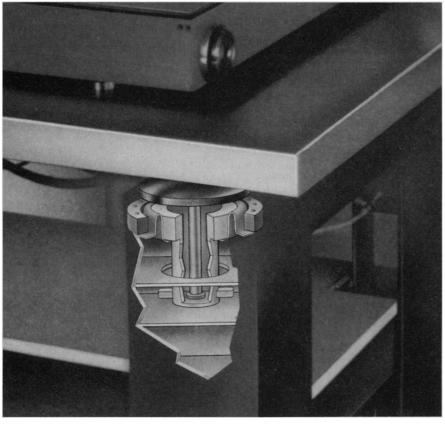
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Qualifications: M.D. plus three years of Residency in internal medicine, two years of Fellowship in nephrology, demonstrated ability and experience in teaching, clinical research, and the treatment of renal diseases incuding renal transplantation and dialvsis.

Last day for receipt of applications: applications will be reviewed beginning April 3, 1998, and accepted until position is filled.

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Requirements include a BS in a relevant scientific discipline (e.g., biology, chemistry, physics, mathematics, or engineering); min. 5 years of forensic science practice in a federal, state, county or municipal government lab—to include crime scene response, case work analysis, report writing and court testimony; min. 5 years of regular science teaching experience; min. 3 years of successful management of a science/forensic science group (at least a group of 10 people) within a government organization, including personnel, administrative, program and budget perspectives; strong team building and teaching skills required. MS in a relevant scientific discipline is strongly preferred. If the successful candidate does not possess a Master's degree, its completion will be expected within a negotiated period.

Unit Chief, Forensic Science Research Unit

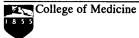
Requirements include a Ph.D. in an analytical science with strong emphasis on the chemical sciences: min. 5 years experience as a research scientist and/or forensic examiner in chemical, biological, and/or physical science; min. 3 years experience managing a group of research and/or forensic scientists, including project management and planning, resource estimation, budget process and cost benefit analysis techniques; experience managing large research contracts to insure appropriate progress is essential; extensive publication and presentation of research results is also essential. Experience as an administrator within a forensic laboratory is preferred.

Interested candidates should submit a detailed resume no later than March 6, 1998, to: **FBI Headquarters, Attn: FSMO Dept., Room 3640, 935 Pennsylvania Ave., N.W., Washington, DC 20535-0001.** You must be a U.S. citizen and consent to a complete background investigation, polygraph, and drug test as a prerequisite for employment. The FBI is an Equal Opportunity Employer.

The Federal Bureau of Investigation



PENNSTATE



POSTDOCTORAL FELLOW HENRY HOOD M.D. RESEARCH PROGRAM

Postdoc position available in the Laboratory of Dr. Stephen A. Osmani to study the regulation of the eukaryotic cell cycle using Aspergillus nidulans as a model system (see EMBO J 15 3599-3610, 1996; EMBO J 16 182-192, 1997; J. Biol. Chem. 272 33384-33393, 1997 for recent publications). The successful candidate will have experience in genetics or molecular biology, but a good publication record is most important. The Henry Hood Research program is housed in the Weis Center for Research in Danville, PA. Danville is in a safe, semi-rural area with convenient access to the major metropolitan areas of New York and Baltimore. The Center provides modern, fully equipped research facilities for 89 faculty and research personnel. Interested individuals should send their curriculum vitae and the names of three references to: Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program (SAO), Sigfried and Janet Weis Center for Research, 100 North Academy Avenue, Dept. SCI, Danville, PA 17822-2601. AA/

Research Scientist/Fellow

Biopharmaceutical R&D

ALZA Corporation, headquartered in Palo Alto, CA, is a leader in the development and commercialization of innovative pharmaceutical products using advanced drug delivery technologies that add medical and economic value to drug therapies. We have an outstanding opportunity for an experienced, hands-on researcher to join our multidisciplinary R&D team and help us sustain our long-standing tradition of scientific and manufacturing excellence.

You will develop an independent R&D program which facilitates formulation of biopharmaceuticals for ALZA's propriety delivery technologies. You will also produce/characterize formulations in support of delivery technology development, as well as lead/supervise a group of scientists. The position requires a Ph.D. in Pharmaceutical Chemistry, Biochemistry, Chemical Engineering or equivalent; 2-6 years of postgraduate experience developing biopharmaceutical formulations in an industrial setting; proven managerial/leadership ability in a multidisciplinary R&D environment; and excellent written/verbal communication skills. Candidates must possess experience in at least one of the following areas: freeze-drying, spray-drying, powder analysis, thermal analysis, protein analysis (HPLC, electrophoresis) and/or spectroscopy.

In addition to attractive compensation and benefits, we offer a rare opportunity to collaborate with a diverse group of dedicated and skilled professionals in a cooperative, challenging environment. Please send/fax/email resume to: ALZA Corporation, HR Dept., Attn: Job# SC-0220-LR, 950 Page Mill Rd., P.O. Box 10950,



Palo Alto, CA 94303-0802; fax: (650) 494-5656; email: jobs@alza.com; TDD: (650) 494-5003.

Or call our Job Hotline at (650) 494-5319.

ALZA is proud to be an Equal Opportunity Employer and welcomes applications from minorities and persons with disabilities.

www.alza.com

Molecular Cardiology

Research Asst. Professor

Position available immediately in Department of Surgery (Vascular Surgery Division), in association with a new multidisciplinary molecular cardiology initiative, with substantial expertise in biophysics, molecular and cell biology, led by Dr. Ira S. Cohen. Position will be for 2-3 years. with possibility of renewal.

Qualifications: Ph.D in biomedical sciences required; experience in molecular/vascular biology/ cardiology is highly desirable

Application of molecular techniques to emerging topics in cardiovascular medicine and smooth muscle control is targeted.

Send application to Peter J. Garlick, Ph.D, Department. of Surgery, SUNY Stony Brook, Stony Brook, NY 11794-8191 (fax: 516. 444. 6039; email garlick@ surg.som.sunysb. edu)

An AA/EO employer



STATE UNIVERSITY OF NEW YORK



GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF

MATERIALS, ENERGY, EFFICIENT ENERGY USE, AND GLOBAL ENVIRONMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, has been carrying out an International Joint Research Program since 1988.

This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research.

In addition to supporting international joint research teams which conduct original and innovative basic research in the Materials area, international joint research teams which conduct research in the Energy, Efficient Energy Use, and Global Environment area will be provided with grants in FY 1998. The Efficient Energy Use area will be newly established in order to not only promote energy efficiency but also contribute to global environment. The program in the Global Environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RCTE).

Research Grants will be provided to "International Joint Research Teams" which fulfill the following main requirements:

- 1. Each team, in principle, must be composed of four or more researchers;
- 2. Each team must consist of researchers of two or more different nationalities;
- 3. The research organizations where the team members' major activities take place must be located in two or more countries.
- 4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator must be responsible for accounting matters and function as the liaison between the team and NEDO.

The accounting coordinator's organization and research site must be located in Japan, and he/she must be able to communicate with NEDO in Japanese about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

Research Area	Field of Research	Amount of Each Grant	Number of Themes to be Adopted	Recipients of Applications	
Materials	Basic Research concerning the investigation and elucidation of materials Basic Research concerning the practical use of materials	about 30,000,000 yen in FY 1998	5 themes		
Energy	Practical Research on electric power generation technologies using oil-alternative energy, on load- leveling technologies and on global environment conservation related to those technologies	about 30,000,000 yen in FY 1998	4 themes	NEDO (Note a.)	
Efficient Energy Use	Practical research on technologies concerning the efficient use of energy (excluding electric power generation technologies)	about 30,000,000 yen in FY 1998	2 themes		
Global Environment	(Basic research) Basic Research on conservation and improvement of the global environment	about 24,000,000 yen in FY 1998	2 themes	RITE (Note b.)	
	(Practice research) Practical research concerning the production, generation, and use of oil-alternative energy (excluding electric power generation technologies) which contributes to the conservation and improvement of the global environment	about 30,000,000 yen in FY 1998	1 theme		

(Recipients of applications)

Note a. Materials, Energy, Efficient Energy Use area

International Joint Research Division, Industrial Technology Department New Energy and Industrial Technology Development Organization (NEDO)

Address: P.O. Box 1151, 29F, Sunshine 60 Bldg.

3-1-1 Higashi-Ikebukuro, Toshima-ku,

Tokyo, 170 Japan

Phone No: Telefax No: E-mail:

Homepage:

81-3-3987-9357 81-3-3981-1536 nedogrant@nedo.go.jp http://www.nedo.go.jp Note b. Global Environment area

Phone:

Research Proposals Reception Section,

Research Planning Department

Research Institute of Innovative Technology for the Earth (RITE)

Address: 9-2 Kizugawadai Kizu-cho Soraku-gun,

Kyoto, 619-02 Japan 81-774-75-2302

Telefax No: 81-774-75-2314

Homepage: http://www.rite.or.jp

Please be informed that the amount of each grant and the number of themes to be adopted may be changed, and that this grant program is subject to government budget approval.

A research team may submit an application a maximum of two times for a grant on the same subject.

The application period is from January 22nd, 1998, to March 25th, 1998.

No application will be accepted after March 25th.

Attention: If there are any discrepancies in a submitted applications—for example, it does not follow the Application Guidebook or the research contents are different from the proposed research area—it will be considered invalid.

GORDON RESEARCH CONFERENCES

The 1998 Summer and International GRC Programs will appear in the February 27, 1998 Issue of SCIENCE

> For further information visit THE GRC WEB SITE

http://www.grc.uri.edu

or request information by Fax at 401-783-7644

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Three Faculty Positions in

Cellular and Molecular Biology in the areas of

- Intracellular Signaling
- Functional Genomics
 - Immunology

Successful candidates at the associate or full professor level with strong records of publication and extramural funding are sought to complement existing programs in cardiovascular, pulmonary, and cancer research. Opportunities for translational research and joint appointment in a clinical department are available. The S.C. Johnson Medical Research Building provides extensive core facilities (transgenic and gene targeting, molecular biology, FACS, histology, graphics, monoclonal antibody production, shared equipment, statistics, and research computing). Additional cores (peptide synthesis and sequencing, NMR, mass spectrometry) are available within Mayo. A highly competitive benefits package and a stable, long-term institutional budget is provided.

Please send a curriculum vitae detailing your publications and other academic accomplishments, as well as a record of past and current funding. A statement of your research plans, three representative reprints, and the names of three references should be included.

Address replies or inquiries to: John A. McDonald, M.D., Ph.D., Director for Research, Mayo Clinic Scottsdale 13400 East Shea Blvd., Scottsdale, AZ 85259

Mayo Foundation is an affirmative action, equal opportunity employer and educator and supports a drug-free workplace.

Use of the mouse as an animal model of human disease is a major focus of the current basic investigators, whose areas of interest are listed below:

Sandra J. Gendler, Ph.D. Mucin molecular biology and cancer

Claudia Kappen, Dr. rer. nat. Homeobox genes and skeletal development

James J. Lee, Ph.D.

Pathobiology of the cosinophil, lung disease Nancy A. Lee, Ph.D.

Inflammation, cosinophil biology and recruitment

Joseph C. Loftus, Ph.D.

Integrin structure and function: vascular biology

John A. McDonald, M.D., Ph.D. ECM biology, integrins, fibronectin, and hyaluronan

John R. Riordan, Ph.D.



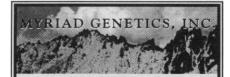
www.mayo.edu

Professor and Chair Department of Microbiology and Immunology **School of Medicine Texas Tech University Health Sciences Center**

The School of Medicine at the Texas Tech University Health Sciences Center in Lubbock, Texas is seeking a highly qualified person to fill the position of Professor and Chair for the Department of Microbiology and Immunology. We seek an outstanding individual who will provide both academic and administrative leadership to the department. Applicants should have either the Ph.D. or M.D. degree and have a nationally and internationally recognized record of accomplishments. Applicants should also have demonstrated the ability to secure extramural funding for his/her program on a continuing basis. Substantial resources for research programs and expansion of the department are available. Interested individuals should send a letter of application accompanied by a recent curriculum vitae and the names of three individuals who have agreed to act as references to:

Douglas M. Stocco, Ph.D. Chair, Microbiology and Immunology Search Committee
Department of Cell Biology and Biochemistry Texas Tech University Health Sciences Center 3601 - 4th Street Lubbock, Texas 79430

TTUHSC is an Equal Opportunity/ Affirmative Action/ADA Employer. Deadline for receipt of CV's is May 15, 1998)



EMPLOYMENT OPPORTUNITIES

Salt Lake City, UT

Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, obesity, and osteoporosis. Expansion of our gene identification and characterization efforts provides a number of exciting opportunities for highly-motivated individuals. To learn more, visit our web page at: www.myriad.com.

Project Director:

A scientist is needed with extensive experience in DNA biochemistry with recent managerial experience implementing new technologies. Other qualifications which will be considered include: an understanding of laboratory information management software and general computer competency, experience in a production environment, implementing quality control, quality assurance and GLP programs. Will manage a group performing technology development in both biochemistry and robotics. Ph.D. with 5 or more years of experience required.

The Technology Development group has a need for scientists with technical experience in DNA enzymology and practical applications including PCR, Sequencing, Genotyping or other diagnostic DNA assays. Projects will include efforts to add reliability and robustness by optimization of protocols and reagents and reduce costs by miniaturizing reactions using microfluidics. Experience in optimization and the interrelationships of complex processes and the utilization of robotics for massive throughput will be considered. The successful candidate will possess a Ph.D. or equivalent in molecular biology or genetics and 2 - 5 years of relevant postdoctoral experience.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax a cover letter, specifying position of interest, a complete resume, and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. Fax: 801-584-3640.

Equal Opportunity Employer



Enhancing lives through oncology innovations



Hoechst Marion Roussel, a world leader in pharmaceutical-based healthcare, is dedicated to extending and enhancing human life through discovery, development and manufacture of innovative products. Additional dedicated resources have created the following opportunities within our expanding Oncology Disease Group at our U.S. Strategic Research Center in Bridgewater, NJ:

Ph.D - Sr. Tumor Research Biologist

We are seeking a group leader for our Tumor Biology Group. This individual will be responsible for, in collaboration with the Head of Disease Group Oncology, determining the strategy for efficient drug testing and assessment of drug effects in tumor models.

- Ph.D. or DVM/Ph.D. in Pharmacology, Pathology or recognized equivalent field
 Minimum of 8 years experience (industry experience preferred) in tumor model use for drug testing, including experience with human tumor xenografts in nude and scid mice, working knowledge of and hands-on experience in tumor pathology, immunohistochemistry, and in situ hybridization

 Experience with in vivo models of angiogenesis, tumor model development, and tumor cell
- culture is highly desirable
- Published record of accomplishment in drug testing and development

Excellent verbal and written communication skills

Ph.D - Cell Cycle Researcher

Responsible for identifying new therapeutically relevant, cell cycle related molecular targets and developing assays for high throughput chemical library screening. Requirements:

- Ph.D. in Cell Biology, Molecular Biology or Biochemistry
 1 to 3 years postdoctoral experience in cell cycle research including the ability to identify innovative targets and approaches and apply to oncology therapeutic projects
 Expertise in molecular biology including experience in molecular cloning and functional

Thorough knowledge of mammalian and yeast cell cycle

Record of peer-reviewed publications
Excellent verbal and written communication skills including the ability to effectively interact with teams of diverse disciplines

BS/MS - Cell and Molecular Biologists

Responsible for providing molecular biology support for oncology projects in the areas of angiogenesis, cell cycle, and signal transduction. Selected candidates will also compile results and present to project teams and to Sr. Oncology Associates. Requirements:

· MS (or BS with a minimum of four years experience) in molecular biology or recognized relevant disciplines.

Experience in several of the following areas:
 molecular biology (Northern and Southern blotting, cloning, recombinant DNA techniques, functional expression, baculovirus expression technology, PCR)
 biochemical techniques (Western blotting, enzyme assays, protein electrophoresis)

· cell biology

Experience in the areas of angiogenesis, cell cycle, or signal transduction preferred.

Experience with assay development desirable.

We are also actively recruiting other professionals with Oncology Research and Pharmaceutical based backgrounds for a variety of positions.

Visit us at the 1998 American Association for Cancer Research Conference (booth 152) being held at the Ernest Morial Convention Center in New Orleans, LA on March 29th - April 1st.

Attracting and retaining top talent is a high priority at Hoechst Marion Roussel. That is why we offer one of the most outstanding and comprehensive compensation and benefits packages in the pharmaceutical industry. In addition, our relocation package is second to none in addressing the transitional needs of our associates. For consideration, please mail your resume (suitable for scanning) including salary history/requirements, indicating position of interest, to: Staffing Manager, D103-H, Ref# 1998BW0006, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, U.S.A., or e-mail: jobs@hmri.com. For additional company information, we invite you to visit our website: www.hmri.com. An affirmative action employer M/F/D/V.

Hoechst Marion Roussel



The Pharmaceutical Company of Hoechst

The Science of Agricultural Genetics

RESEARCH MANAGER (Job # AB - 813) Analytical Biochemistry — Corn Marker Market Lab

Pioneer Hi-Bred International, Inc. is seeking a full-time individual to manage the Corn Molecular Marker Lab in our Analytical Biochemistry Department. This person will play an integral role applying molecular marker technologies in maize to meet both research and product development needs. The responsibilities of this position include: (i) day-to-day operation of the lab, (ii) working closely with other researchers (both lab- and field-based biologists, statisticians and geneticists) to plan, carry out and analyze data from projects, and (iii) working with other researchers in Analytical Biochemistry to apply new technologies and/or approaches which could enhance the efficiency and/or utility of information generated in molecular marker projects. A Ph.D. in plant genetics or other related discipline with 5 years related experience are required. Experience applying molecular marker technologies and expertise with PCR-based marker technologies are essential. The ideal candidate will have experience in the area of maize genetics and will possess: (i) a demonstrated ability to manage multiple deadline-driven projects, (ii) the ability to communicate effectively and collaborate with researchers having a wide range of backgrounds and (iii) the ability to manipulate and utilize databases. Application deadline: March 10, 1998

RESEARCH ASSOCIATE (Job # AB - 814) Analytical Biochemistry — Corn Molecular Markers (2 Positions Available)

We have openings for two individuals at the Research Associate level in the Corn Molecular Marker Lab in our Analytical Biochemistry Department. These individuals will be members of a lab responsible for generation of data for corn molecular marker projects in collaboration with other Pioneer researchers. A B.S. in Biology, Molecular Biology, Genetics or other related discipline and two years of related experience are required. Previous experience utilizing PCR-based genetic analysis systems is required, and experience with PCR-based molecular marker technologies is strongly desired. The ideal candidates will be able to function effectively in a highly collaborative environment, have experience with computers and databases, and have the ability to learn how to operate specialized laboratory equipment, including robotics. These individuals must be organized and capable of working with limited supervision. Application deadline: March 10, 1998.

RESEARCH MANAGER (Job # AT - 804) Agronomic Traits

The Research Manager in the Agronomic Traits group will manage a molecular biology/biochemistry-based effort, as part of a team working towards improving the agronomic performance of maize hybrids. Applicants should have experience in applying genetic, genomic, and transgenic approaches to problems in plant molecular biology and biochemistry, as this constitutes a primary element of any successful research program in this area. A demonstrated ability to develop and implement innovative new procedures in areas of basic and applied research is necessary. In addition, it is expected that the successful candidate will extensively utilize the genomics program at Pioneer. We require a Ph.D. or equivalent in molecular biology, biochemistry, or a related field. Also, post-graduate experience in plant biology is desired. Applicants should be competent in conducting original research in both the laboratory and field, and have experience with supervising technical staff and setting research goals/timelines. Excellent communication skills, as well as fluency with use of computers and sequence analysis software are required. Application dead-line: March 10, 1998

Pioneer offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your resume and cover letter indicating job number to: Pioneer Hi-Bred International, Inc., Attr. PERSONNEL (Job #xxxxxxx), PO. 8 dox 1004, Johnston, M. 50131-1004.

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.



Career Opportunities

Pharmacology & Biology

Located in the San Francisco Bay Area,
Advanced Medicine, Inc. is a progressive, venturebacked biopharmaceutical start-up led by experienced,
forward-thinking management & advisors from the top ranks of the health
care, business, and academic communities. We are dedicated to the
discovery & development of novel therapeutic drugs and approaches,
and our rapid progress allows us to offer an unparalleled opportunity to

and our rapid progress allows us to offer an unparalleled opportunity to talented and dedicated researchers trained in the pharmacological and biological sciences. Chosen candidates will have a strong desire & potential to excel and make a unique contribution to programs in breakthrough areas of research.

Senior Scientist/Director

Pharmacology

Your primary responsibilities will include the establishment and implementation of in vivo efficacy studies across a broad range of therapeutic areas. Thorough knowledge of and experience with rodent models, along with the ability to manage both in-house and out-sourced work is necessary. Requirements: a Ph.D. in pharmacology or physiology and 4+ years of relevant industrial experience. (Job #SCI-B1).

Senior Scientist/Director

Pre-Clinical Pharmacology

Your primary responsibilities will include the establishment of relevant in vivo PK/PD, metabolism, and toxicology studies. Requirements: a Ph.D. in pharmacology or toxicology and 4+ years of industrial experience which includes in-house and out-sourced research as well as IND-enabling studies. (Job #SCI-B2).

Senior Scientist/Group Leader

Microbiology

Your primary responsibilities will include the in vitro analysis of novel antibacterial and antifungal agents, as well as collaboration with our pharmacologists to drive active compounds through in vivo studies. Requirements: a Ph.D. in Microbiology or a related field, or an M.D. with an emphasis in Medical Microbiology, along with 4+ years of relevant industrial experience. (Job #SCI-B3).

Senior Scientist/Group Leader

Biochemistry

Your primary responsibilities will include the development and implementation of in vitro and ex vivo assays involving a range of therapeutic targets, including enzymes, surface receptors, and ion channels. Requirements: a Ph.D. in Biochemistry or a related field and 4+ years of relevant experience. (Job #SCI-B4).

Research Associates

Pharmacology & Biology

We also have multiple openings for Research Associates in Pharmacology and Biology. Primary requirements for these positions include Bachelor's or Master's degrees in relevant disciplines and a keen motivation to contribute, grow, and learn within our supportive team environment. (Job #SCI-D1).

In addition to attractive compensation and benefits, we will provide you with a scientifically challenging & rewarding environment, a pathway for personal and professional growth, and significant equity participation. Please forward your resume with references and job-coded cover letter to: Advanced Medicine, HR Department, 270B Littlefield Avenue, South San Francisco, CA 94080; Fax: (415) 827-8690. EOE

ADVANCED MEDICINE



Genentech's people share some pretty UNCOMMON traits. Not surprising when you consider the scope of our mission—creating breakthrough medicines for conditions like Cystic fibrosis, Strokes, growth deficiency, cancer and heart disease. It demands a very special kind of person. Someone who will take risks, accept responsibility, and constantly seek creative solutions.

Do you have the traits to contribute to making our Vision of longer, healthier lives for thousands of people a reality? Consider what you expect from a Career and from Yourself. Expect the entraordinary? Then share your traits with us.

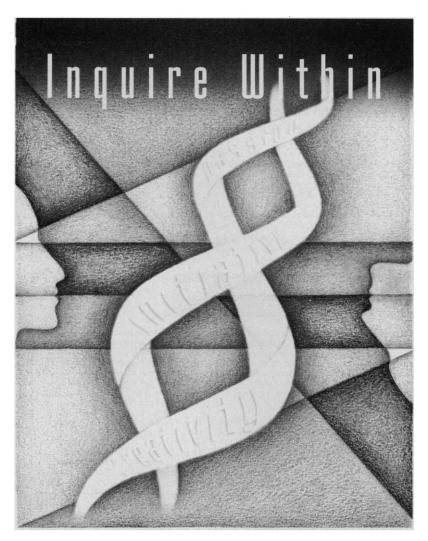
www.gene.com

Scientist, Toxicological Pathology

Provide pathology expertise to support preclinical drug development. Interact closely with the research pathology department to assure that all studies adequately support international clinical trials for global registration of Genentech molecules. You'll also collaborate on pharmacology and mechanism-of-action studies to support animal model development and assessment of morphological endpoints. A DVM, PhD, board certification and 3+ years' related experience are required. Experience in investigative or research pathology and expertise in small molecules and protein therapeutics are desirable. Job Code SCITP

Associate Director, Toxicological Pathology

Supervise and coordinate the toxicological pathology functions within our pharmacological sciences organization. You'll also serve as an internal preclinical expert and scientific bridge between drug development and research pathology. Your capacities for critical thinking, problem solving, decision making and effective communication will be essential. A DVM, PhD, board certification and 5-7+ years' experience in a preclinical/toxicological pathology department within a biotechnology or pharmaceutical company are required. Experience in investigative or research pathology and expertise in small molecules and protein therapeutics are desirable. Job Code SCIADT



Scientist, Toxicology

Design, conduct and evaluate safety assessment studies; independently prepare comprehensive preclinical evaluations and defend findings to regulatory authorities; and provide expertise on issues involving protein and chemical therapeutics. A PhD or equivalent in toxicology and 2+ years' experience in the pharmaceutical/biotechnology industry is required. Board certification in toxicology and experience in endocrinology, neurosciences, immunology or cardiovascular pharmacological or oncology is highly desirable. Job Code SCITOX

Postdoc - Toxicology

The Genentech Postdoctoral Program consists of more than 50 researchers and is a vibrant and intensive environment for advanced scientific training. Postdoctoral Researchers conduct basic research in the areas of our scientific interest, publish in scientific journals, and attend and present work at scientific meetings. All candidates should have a PhD and/or MD with a strong background in the appropriate field.

A position is available to assess the safety and mechanism of toxicity of exogenously administered human growth factors on tumor initiation, promotion, growth and metastasis. Experience or knowledge of tumor biology, laboratory techniques, animal handling, and with in-vivo and in-vitro tumor models is required. See Cancer Res. 56:921-924 (1996); Ann Intern Med. 122:54-59 (1995); Cancer Res. 55:249-252 (1995); J. Clin. Invest 95:1789-1797 (1995); Am. J. Clin. Pathol. 92:415-423 (1989); J. Histochem Cytochem 36 (4): 383-389 (1988). Manager: Dr. Jeanine Bussiere. Job Code SCI535

Our progressive benefits package includes full medical/dental/vision, 3 weeks vacation, sabbatical program, stock purchase plan and health club membership. Send your resume, indicating Job Code, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Please use plain type faces. You may e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). We cannot accept faxed resumes.

Genentech is an Equal Opportunity

Employer. We value the contributions of our diverse workforce.

Genentech, Inc.

incredible people
extraordinary science



A new global leader in pharmaceuticals is born.

Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering, researching, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions (including organ transplantation, cardiovascular diseases, schizophrenia, cancer, epilepsy and arthritis)...we are helping millions of people live longer, healthier lives. To do this effectively, we are investing over \$1 billion annually in pharmaceutical research and development.

We are also dedicated to providing a stimulating environment that is conducive to professional growth. We invite you to investigate the following opportunities at our state-of-the-art northern New Jersey location:

Postdoctoral Fellow/Diabetes Molecular & Cell Biology

As a key member of our Diabetes Research team, you will be responsible for the development of adenoviral vectors for functional analysis of key proteins involved in the regulation of hepatic glucose sensing. Qualifications include recent Ph.D. in relevant discipline. Familiarity with standard techniques in molecular biology and biochemistry required; a background with cell culture desirable. Our postdoctoral assignments, which encourage creative thinking and offer ample opportunities for publication and research presentation, are for one year and may be renewable for a second year by mutual agreement.

Bring us your education and expertise—we'll provide the resources you need to do your best work. PRINCIPALS ONLY: send your resume/curriculum vitae and letter of interest, indicating Position MG-PD069 on resume AND envelope, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Building G2, Summit, NJ 07901. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

PRESIDENT of the Health Science Center

The Presidential Search Committee of the State University of New York Health Science Center at Brooklyn invites nominations and applications for the position of President of the Health Science Center.

The SUNY Health Science Center at Brooklyn (formerly Downstate Medical Center) is a comprehensive health sciences campus of the State University of New York, composed of the Colleges of Medicine, Health Related Professions, Graduate Studies, and Nursing, as well as a 376-bed University Hospital. It is the primary health care education institution in Brooklyn and its surrounding area and its 2000 full-time and voluntary faculty are responsible for the education of approximately 1,600 students.

The Search Committee seeks an exceptional leader with the following competencies:

- A professional record of significant accomplishment.
- Substantial experience in strategic planning and implementation.
- The ability to work effectively with the full range of constituencies, including faculty, administrative officers, providers, staff, student, alumni, community groups, affiliates, networks, the public sector and entities at the local, state and federal levels.
- The ability to communicate the Health Science Center's mission, needs, and strengths to SUNY system officers, community leaders and groups, elected officials and agencies at all levels of government, health care service constituencies.
- The capacity to build consensus and to motivate the various constituencies around a common strategy that will further academic excellence, quality research and superior clinical care within an urban setting.
- The skills and the desire to serve as the Chief Development Officer of the organization.

Candidate nominations or self-expressions of interest (with letter of interest and resume) should be sent by March 12, 1998 to: Nancy L. Cook, Managing Director, Diversified Search Companies, One Commerce Square, Suite 3300, Philadelphia, PA, 19103 • Fax (215) 568-8399

All inquiries, nominations and applications will be held in confidence. SUNY Health Science Center at Brooklyn is an affirmative action, equal opportunity employer with a strong commitment to racial, cultural and ethnic diversity.



State University of New York Health Science Center

EEO/AA Employer

DMC # AO 306

HARVARD MEDICAL SCHOOL

Faculty Positions

in the

Department of Cancer Immunology & AIDS

at

The Dana-Farber Cancer Institute

Together with the Department of Pathology at Harvard Medical School, the Department of Cancer Immunology & AIDS seeks well-qualified (Ph.D., M.D./Ph.D., or M.D.) applicants for tenure-track positions at the Assistant or Associate Professor level. Applicants must have at least 3–5 years of postdoctoral experience, high quality peer-reviewed publications, evidence of independent research, and competitive funding potential. The Departments seek individuals who have the capability of directing innovative independent research in immunology using molecular and/or cellular approaches.

The Center for AIDS Research, the Department of Cancer Immunology & AIDS at the Dana-Farber Cancer Institute, and the Department of Pathology at Harvard Medical School also seek well-qualified (Ph.D., M.D., or M.D./Ph.D.) applicants for a tenure-track position at the Assistant Professor level. The Departments seek individuals who have the capability of directing innovative independent AIDS research. Candidates should have completed 3-5 years of relevant postdoctoral or independent research. Relevant interests and experience include human or primate immunodeficiency virus replication, viral interactions with host cells, pathogenesis, antiviral Immune responses, vaccine development, and T-cell immunobiology and its relevance to HIV infection.

These positions offer significant scientific resources in a stimulating environment as well as an attractive start-up support package. Candidates are expected to participate in the teaching activities of the Harvard Medical School, Department of Pathology for medical students, graduate students, and postdoctoral fellows. Applicants should submit, by April 1, 1998, curriculum vitae, bibliography, a brief statement of research interests, and the names, addresses, and phone numbers of four referees to:

Dr. Harvey Cantor
Dept. of Cancer Immunology &
AIDS
Dana Farber Cancer Institute
44 Binney Street
Boston, MA 02115

DFCI and HMS are Equal Opportunity/ Affirmative Action Employers. Women and minorities are strongly encouraged to apply.

DIRECTOR DIVISION OF EXTRAMURAL RESEARCH National Institute of Dental Research

The Position: Director of the Division of Extramural Research (DER), National Institute of Dental Research (NIDR), the primary sponsor of support for research and research training on the causes, prevention, diagnosis, and treatment of craniofacial, oral, and dental diseases and disorders in the United States. The Director, DER, serves as a primary advisor to the Institute Director, and oversees, plans, and directs extramural and collaborative research and research training activities. Participates with the Institute Director in formulating general polices and administrative practices for the Division, and in determining program priorities and funding levels.

The Challenge: Provide leadership in the overall scientific administration of a comprehensive research program in oral health with a Fiscal Year 1998 budget of approximately \$161 million. Support a wide range of research in craniofacial, oral, and dental diseases and disorders, and explore new dimensions in funding approaches.

The Ideal Candidate: Demonstrated scientific leadership and management of a basic, clinical, or research-related program of national standing. D.D.S., M.D., or Ph.D., or comparable experience and training, in an area of relevance to the oral health sciences. Must have experience in an area related to the oral health sciences that meets the following requirements:

- 1. Knowledge and experience in the health sciences related to the causes, prevention, diagnosis, and treatment of craniofacial, oral, and dental diseases and disorders. Knowledge of the entire spectrum of research including basic, translational, patient-oriented, and community-based research. Experience developing new initiatives or restructuring health research programs to meet national research needs.
- 2. Ability to provide leadership and broad vision to a multidisciplinary research program that entails extensive managerial and executive-level responsibilities in a diverse organization. Experience that demonstrates the ability to: manage a large multidisciplinary research program; design policies and standards for the initiation and execution of multidisciplinary research; determine productivity and effectiveness of current research; develop and implement organizational vision; design and implement strategies that maximize employee potential and foster high ethical standards; make timely and effective decisions and produce results; acquire and administer human, financial, material, and information resources; explain, advocate, and express facts and ideas in a convincing manner.

Salary Range: This is a Civil Service position in the Senior Executive Service with a salary ranging from the ES-1 to ES-6 level, currently \$103,897 to \$123,100 per annum, including locality pay. Physicians and dentists may be eligible for a Physicians Comparability Allowance up to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal applicant selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

How to Apply: Applicants must submit a bibliography and a curriculum vitae, résumé, Application for Federal Employment, OF-612, or any other equivalent written format that addresses the requirements indicated in this announcement. Application materials must be submitted to, and further information may be obtained from:

Ms. Carol M. Beasley National Institute of Dental Research 31 Center Drive, MSC 2290 Bldg. 31, Room 2C-39 Bethesda, MD 20892-2290

OR via e-mail to: carol.beasley@nih.gov Phone: (301) 496-6971

Applications must be postmarked by March 20, 1998.

All application forms are subject to the provisions of the Privacy Act and become the property of the DHHS.

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



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Creative BioMolecules, Inc. is a discovery and development company focused on proprietary protein-based therapeutics for human tissue regeneration and restoration. The Company's therapeutics are based on proteins that act as signals in initiating and regulating the cellular events in tissue regeneration and organ formation. Our expertise spans basic research to clinical applications.

CELL BIOLOGY

And SIGNAL TRANSDUCTION PROGRAM

PROGRAM MANAGER

Coordinate the activities of our internal and external research efforts leading to the discovery and application of small molecules that modulate the pathways involved in TGF beta and BMP signalling. Additional responsibilities include coordinating and managing the efforts of contractors, collaborators and internal research teams to ensure effective communication and resource allocation. You will also be responsible for coordinating the efforts of the research, pre-clinical, product development and production groups within the Company as they relate to this program. This position requires demonstrated skills in research administration and excellent communications and interpersonal skills.

GROUP LEADER

You will lead a research program focused in applying knowledge of the molecular pathway involved in TGF and BMP signaling events to the development of medium of high thruput screens for molecules that modulate this pathway. You will also lead a group involved in the expression of signaling proteins and receptors in the development of assays that report on the biology of these components and in exploring the biological effects of lead compounds. Demonstrated skills in leading a goal-oriented research team required. Applicants with experience in the design of medium-high thruput screens for protein interactions or other biological endpoints and in signal transduction biology are particularly encouraged to apply.

Morphogenic Protein Program

Program Manager/Director

Direct both internal and external programs leading to the discovery of novel applications of morphogenic proteins of the TGF beta and BMP superfamily. You will lead a research program encompassing the production of recombinant human morphogenic proteins, the development of biochemical, immunochemical and cell based assays for these proteins, and their evaluation in various animal models of acute and chronic degenerative disorders. You will also be responsible for coordinating the participation of the research, pre-clinical, product development and production groups within the Company as they relate to this program. Candidates with experience in the biology of TGF beta, BMPs or other morphogenic proteins are especially encouraged to apply. This position will be at the level of Manager or Director depending upon qualifications and experience of the candidate.

Applicants for the above positions should have a Ph.D. in a Biological Science with at least 7 years of academic or industrial experience and an outstanding publication or achievement record in their field of expertise. Candidates with experience in the use of animal models as a basis for clinical utility and in working with preclinical and product development groups are encouraged to apply. These positions require demonstrated skills in managing a goal-oriented research team and in dealing collaboratively with allied research group. Excellent writing and communications skills are also required.

For immediate consideration, please send or fax your resumé to: Human Resources, Creative BioMolecules, 45 South Street, Hopkinton, MA 01748. Fax. (508) 782-1541. An Equal Opportunity Employer





Postdoctoral Positions

Experimental Hematology

Postdoctoral positions are available to study the molecular mechanisms of hemoglobin switching and to develop strategies for gene transfer into hematopoietic stem cells. Our program is focused on the development of gene therapy approaches for hemoglobin disorders, particularly severe beta thalassemia and sickle cell anemia. Retroviral, adenoviral and adeno-associated viral vector systems are being developed. Work is also focused on using gene transfer to protect bone marrow from chemotherapy induced suppression and to provide selectable markers for amplification of genetically modified cells. Investigators in the program include: John Cunningham, Arthur Nienhuis, Brian Sorrentino, and Elio Vanin. Successful candidates will have a strong background in cell and molecular biological techniques as reflected by a track record of productivity and peer-reviewed publications. Qualified M.D., M.D./Ph.D. and Ph.D. candidates should send a letter of interest and curriculum vitae to Arthur W. Nienhuis, M.D., Division of Experimental Hematology, St. Jude Children's Research Hospital, 332 N. Lauderdale Street, Memphis, TN 38105.

Affirmative Action/Equal Opportunity Employer



U.S. Department of Agriculture (USDA)
Agricultural Research Service (ARS)

RESEARCH LEADER, PLANT GENETIC RESOURCES GS-13/14

The USDA, Agricultural Research Service (ARS), is seeking an accomplished and articulate research scientist to serve as Research Leader, and provide leadership and coordination at the ARS Plant Genetic Resources Unit, Geneva, NY. The mission of the Unit is to acquire, evaluate, manage, and distribute genetic resources of crop plants, and to improve the effectiveness and efficiency of plant genetic resource management. The incumbent will have the responsibility to plan, coordinate, and participate in research programs involving 5 senior ARS scientists, and the opportunity to collaborate in germplasm and molecular breeding studies with Cornell University. The successful candidate must have a record of accomplishment in genetic resource management, demonstrated supervisory and communication skills, the ability to work in a collaborative environment, and professional experience in Genetics, Agronomy, Horticulture, or related discipline. The Plant Genetic Resources Unit is a component of the National Plant Germplasm System, and includes National Repositories for apple, grape, and tart cherry, as well as other major crop collections. It is housed in modern, well-equipped laboratory, greenhouse, and field facilities. Competitive salary and benefits package. Ph.D. degree desirable. U.S. citizenship required. For further information on research programs contact Wilda H. Martinez at 215-233-6593. For application information and forms contact Tiffany Fisk at (315) 787-2307 or http://www.ars.usda.gov. Applications must be marked ARS-X8N-8083 and be postmarked by March 30, 1998.

> USDA/ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.



FACULTY APPOINTMENTS NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF COMPUTATIONAL SCIENCE

http://www.cz3.nus.sg:8100/

The Department of Computational Science offers interdisciplinary undergraduate major programmes in Computational Chemistry, Computational Mathematics, and Computational Physics. There are currently a small core of faculty members and several postdoctoral research fellows in the Department. Faculty members from other departments in the Faculty of Science also contribute to the teaching of courses offered by the Department.

Teaching facilities include two clusters of workstations (one comprising of 45 pentium-based Linux workstations, the other of 15 SGI Indigo and 8 HP9000/712 workstations) and networked multimedia personal computers. Students and staff in the Department also have access to the Cray J90 supercomputer and the Fujitsu AP3000 MPP machine on campus, as well as the NEC SX3, IBM SP2, and Cray T94 supercomputers at the National Supercomputing Research Centre (NSRC).

Major research areas in the Department include computational statistical and condensed matter physics, nonlinear dynamics and complex systems, scientific visualization, neural computing, computational quantum chemistry and molecular modeling, computational fluid dynamics, geometric modeling, wavelet analysis and applications, signal and image processing. There are strong links between the Department and other national research centres (NSRC, Institute for Materials Research and Engineering, Bioinformatics Centre, Centre for Remote Imaging and Signal Processing) and the Defence Science Organization of the Ministry of Defence. Ties with other academic institutions and research centres overseas are maintained and the Department is fast gaining international recognition.

Applications are invited for faculty appointments from candidates who possess a Ph.D. degree or its equivalent in any of the following areas:

Scientific Visualization Computational Biology

Complex Systems Computational Fluid Dynamics
Neural Computations Parallel Scientific Computations

Geometric Modeling Computational Condensed Matter and Statistical Physics

Symbolic Computing Quantum Chemistry (molecular modeling, computer-aided drug design)

Duties include teaching, research, and some administrative work. Besides appointments on normal 3-year contracts, visiting appointments for one or two years will also be considered. Gross annual emoluments range as follows:

 Lecturer
 \$\$ 58,840 - 74,800

 Senior Lecturer
 \$\$ 68,410 - 144,350

 Associate Professor
 \$\$128,050 - 177,750

(US\$1.00 = S\$1.73 approximately)

In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidized housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Video-on-Demand, INtv and Internet.

Application forms and further information may be obtained from:

Faculty Search Committee
Department of Computational Science
National University of Singapore
10 Kent Ridge Crescent
Singapore 119260
Fax: (65)774-6756

E-mail: cscsec@leonis.nus.edu.sg

Applications should be submitted by 30 April 1998. Only shortlisted candidates will be notified.

THE UNIVERSITY OF SOUTHERN CALIFORNIA Center for Computational and Experimental Genomics

University of Southern California (USC) announces three new ${f FACULTY}$ ${f POSITIONS}$ in the newly formed Center for Computational and Experimental Genomics. The Center focuses on the use of genomic data and associated technologies in the development of novel experimental and computational approaches to important biological problems

The positions are to be affiliated with the Departments of Biological Sciences and/or the Computational Mathematics and Statistics section of the Mathematics Department. Teaching in the appropriate departments is expected. The level of the three positions is open, to be determined by the qualifications of the successful applicants. The specific areas of research are open, but should be within the broad areas of genetic diversity, functional genomics, new genome technologies, and computational and statistical analysis.

Applicants should send a résumé, a cover letter describ ing teaching and research interests, and the names, addresses, telephone/FAX numbers, and e-mail addresses of at least three references to: Search Committee, Center for Computational and Experimental Genomics, University of Southern California, Los Angeles, CA 90089-1340. FAX: 213-740-8631.

Applications will be considered beginning February 1, 1998, and will be accepted until the positions are filled. For more information see website: http://wwwhto.usc.edu. USC is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN STRUCTURAL BIOLOGY UNIVERSITY OF ILLINOIS AT CHICAGO Department of Biochemistry and Molecular Biology College of Medicine

As part of a major initiative in building structural biology at the University of Illinois at Chicago, the Department of Biochemistry and Molecular Biology invites applications from well-qualified individuals for tenure-track faculty positions. Candidates' research interests should be in the application of structural methods, particularly X-ray crystallography or NMR spectroscopy, to answer medically relevant questions in the broad area of biochemistry. Successful applicants will be expected to develop strong, externally funded research programs and to teach graduate and/or medical students. Access to newly purchased X-ray and NMR equipment tailored to macromolecular structural studies will be available. Salary and start-up packages will be competitive. Interested and qualified candidates should send a letter of interest, curriculum vitae, a statement of present and future research interests, and arrange for three letters of recommendation to be sent to: Dr. Peter Gettins, Chair, Structural Biology Search Committee, Department of Biochemistry and Molecular Biology, M/C 536, University of Illinois at Chicago, 1853 West Polk Street, Chicago, IL 60612. For full consideration completed applications should be received by April 1, 1998. If two individuals wish to be considered jointly, each should so indicate at the time of applying.

The University of Illinois at Chicago is an Affirmative Action/

Equal Opportunity Employer.

FACULTY POSITIONS NEUROBIOLOGY

The Department of Neurobiology, University of Pittsburgh School of Medicine, is inviting applications for TENURE-TRACK positions at all ranks. Preference will be given to applicants using cellular and molecular approaches to investigate synaptic function, the genetics of behavior, or neural development. It is expected that the successful candidates conduct competitive, independent research programs that will complement current department strengths in cellular, developmental, and systems neurobiology. The positions require a Ph.D. and/or M.D. with at least two years of postdoctoral experience. Competitive salary support and start-up funds will be made available. Applicants should submit by April 30, 1998, a curriculum vitae, a detailed description of present and future research goals, representative recent publications, and names and addresses of three references to: Dr. Pat Levitt, Chair, Department of Neurobiology, University of Pittsburgh School of Medicine, E1446 Biomedical Science Tower, Pittsburgh, PA 15261.

The University of Pittsburgh is an Equal Opportunity Employer

POSITIONS OPEN

SENIOR NEUROLOGIST FACULTY POSITION IN ALZHEIMER'S DISEASE RESEARCH Institute for Brain Aging and Dementia College of Medicine, Department of Neurology School of Biological Sciences University of California, Irvine

Applications are invited for a tenured, Senior Neurologist faculty position dually appointed in the College of Medicine, Department of Neurology and in the School of Biological Sciences, Department of Psychobiology. This individual is expected to take a leadership role in the Alzheimer's Disease Program that is designated both as an Alzheimer's Disease Research Center and as an Alzheimer's Disease Diagnostic and Treatment Center (State of California, DHHS), structured within the Institute for Brain Aging and Dementia. The successful candidate will be one who demonstrates appropriate leadership skills, including the ability to maintain effective interactions over a range of basic science and clinical disciplines related to the study of Alzheimer's disease. Candidates should have a record of outstanding research accomplishment as evidenced by national and international recognition, appropriate funding record, and proven ability to train graduate and postdoctoral researchers. Examples of areas of research foci might include neuroimaging applications, dementia subtype analyses, and/or biological markers of dementia. The level of appointment is commensurate with the credentials of the successful candidate

Candidates holding an M.D. degree and Board certification in neurology are invited to apply by sending a letter of interest, a curriculum vitae that includes a record of teaching and research experience, and the names and addresses of three referees to: University of California, Irvine, Dr. Carl W. Cotman, Institute for Brain Aging and Dementia, Biological Sciences II, Room 1305, Irvine, CA 92697-4540. Refer to Position #98-C.

The University of California, Irvine: rooted in education, enriched by diversity

PHYSIOLOGY FACULTY POSITION

Tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Clinical Research/Biomedical Sciences of the Ohio University College of Osteopathic Medicine. Primary responsibilities are to teach medical physiology in a clinically oriented curriculum and to develop a viable research pro gram. Candidates must be well-trained scientists interested in teaching clinically relevant, organ system-level physiology in an innovative, interdisciplinary atmosphere. The Ph.D. or equivalent is required and postdoctoral training or equivalent experience is highly desirable. The appointment is to begin in the fall of 1998. The 11-month salary will be commensurate with experience, and is accompa nied by an excellent benefit package. Review of applications will begin March 15, 1998, but applications may be tendered until the position is filled. Submit a statement of career interests, a curriculum vitae, representative reprints, and three (3) letters of recommendation to: John N. Howell, Ph.D., Search Committee Chair, Ohio University College of Osteopathic Medicine, 326 Grosvenor Hall, Athens, OH 45701. E-mail: howell@ ohiou.edu.

Ohio University is an Affirmative Action/Equal Opportunity Employer

FACULTY POSITIONS IN BIOENGINEERING AT GEORGIA TECH AND EMORY

Georgia Institute of Technology and Emory University of Medicine are recruiting new TENURE-TRACK faculty in bioengineering. This expansion in faculty is supported by a Whitaker Foundation Biomedical Engineering Development Award which focuses on tissue engineering. Areas of special interest include bioartificial organs, biomaterials, biosensors, cellular immunology, controlled release systems, cryopreservation, genetic engineering, and stem cell propagation. Interested candidates should provide a complete curriculum vitae, a description of their research interests, and the names and addresses of at least three references. Candidates should have a Ph.D. in bioengineering, chemical engineering, electrical engineering, materials science, mechanical engineering, or a related field, and/or a M.D. degree. Successful applicants will have their primary appointment in the appropriate unit either at Georgia Tech or at Emory. Applications should be sent to: Robert M. Nerem, In-Institute of Technology, Atlanta, GA 30332-0363.

Georgia Tech and Emory University are Equal Opportunity Employers.

POSITIONS OPEN

CHAIR OF BIOKINESIOLOGY AND PHYSICAL THERAPY UNIVERSITY OF SOUTHERN CALIFORNIA Los Angeles, California

The Department of Biokinesiology and Physical Therapy at the University of Southern California (USC) invites applications for the position of Chair. Biokinesiology and Physical Therapy at USC is a well-established department with an over 50-year history of teaching excellence and research success. The Department is located on USC's Health Science Campus, and enjoys collaborative relationships with the other disciplines of the academic health center including dentistry, nursing, medicine, occupational science and occupational therapy, and pharmacy. The USC University Hospital, the Los Angeles County and USC Medical Center, and the USC Norris Cancer Hospital are also part of the campus community.

There is a student body of over 300, each engaged in graduate study in either the Doctor of Physical Therapy or the M.S./Ph.D. program in biokinesiology. The faculty comprises basic scientists, applied researchers, and master clinicians working in close partnership with community practitioners. The faculty clinical practices operate in acute care hospitals, outpatient settings, and within a network of private practices.

Teaching facilities are new and modern and include spacious teaching laboratories and a state-of-the-art lecture hall. Faculty research facilities include a large motion analysis, exercise science, neuroscience, muscle physiology, and molecular and cellular biology laboratories

The appointee will be expected to provide leadership in scholarship, teaching, clinical practice, and fiscal management to a Department uniquely positioned to determine its own academic and financial course. The new Chair will bring success in academic scholarship and in the acquisition of external funding for research.

Candidates will have a Ph.D., be eligible for licensure as a Physical Therapist in California, be an experienced university faculty member, and should have administrative experience. Applicants should send a curriculum vitae and addresses of three references to: Search Committee for Chair of Biokinesiology and Physical Therapy, Atten-Neurobiology, University of Southern California School of Medicine, 1333 San Pablo Street BMT 401, Los Angeles, CA 90033. An Equal Opportunity Employment Employer.

The Department of Health Sciences at East Tennessee State University seeks applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level opening in August 1998. The position requires teaching undergraduate courses in introductory anatomy and physiology and human anatomy. Development of a research program compatible with departmental goals is expected. Ph.D. preferred; however, candidates holding other graduate degrees with extensive university-level teaching experience in anatomy may be considered. Screening of applicants will begin in March 1998. Salary will depend on qualifications and experience. Send curriculum vitae, a description of research and teaching interest, and the names of three references to:

> Dr. Michael T. Gallagher Professor and Chair East Tennessee State University Department of Health Sciences P.O. Box 70,673 Johnson City, TN 37614-0673

East Tennessee State University is an Equal Opportunity/ Affirmative Action Employer

DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS CASE WESTERN RESERVE UNIVERSITY

The Department of Physiology and Biophysics invites applications for both JUNIOR- and SENIOR-LEVEL faculty positions. Suitable areas of research include, but are not limited to, cellular and molecular approaches to systems integrated physiology, with emphasis on cardiorespiratory systems and hypoxia. We offer a highly competitive compensation package, ample start-up funds, and state-of-the-art research facilities. Salary and rank will be commensurate with qualifications and experience. Submit curriculum vitae, a brief statement of research interest(s), three representative reprints, and the names, addresses, and telephone numbers of four references to: Marianne Sperk, Department of Physiology and Bio-physics, 10900 Euclid Avenue, Cleveland, OH 44106-4970. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer



International Aspirin® Award 1998

Young Researchers' Aspirin® Award

The Young Researchers' Aspirin® Award's objective is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. Only 1 paper can be submitted per year but it might be resubmitted within the time limit. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award's value is DM 20,000.

Entries will be judged by an international scientific committee representing basic and clinical research.

Submit your manuscript (English language, 2 copies) with your Curriculum Vitae, a list of the 5 most important recent publications (= last 5 years) and a statement of the group leader of the department where the scientific work submitted for the Aspirin* Award competition was generated which describes the background and rationale of the research, confirms the independence of the scientific work and discloses the source of financial funding.

Applications should be mailed to the following address:

International Aspirin® Award c/o Bayer AG BG Consumer Care/EU-PDC/Medicine Building C 151 D-51368 Leverkusen/Germany

Deadline for submission is April 30th, 1998 (postal mark!)





FACULTY POSITION IN SYSTEMS NEUROSIENCE AT THE UNIVERSITY OF TEXAS-HOUSTON MEDICAL SCHOOL

Department of Neurobiology and Anatomy and

W. M. Keck Center for the Neurobiology of Learning and Memory

Applications are invited for a tenure-track faculty position in the Department of Neurobiology and Anatomy and the W. M. Keck Center for the Neurobiology of Learning and Memory. Ideally, applicants will have a multidisciplinary systems approach to learning and memory, combining techniques from a variety of fields. Rank and salary will depend upon qualifications. Development of strong independent research program(s) and some graduate student and medical student teaching are expected. Facilities are available for research with nonhuman primates and other animals. Send curriculum vitae, selected reprints, statement of research accomplishments, future research plans, and three letters of reference to:

Dr. Anthony A. Wright
Search Committee Chairman
University of Texas-Houston Medical School
Department of Neurobiology and Anatomy and
W. M Keck Center for the Neurobiology of
Learning and Memory
P.O. Box 20708
Houston, TX 77225

The University of Texas-Houston is an Equal Opportunity Employer/smoke-free environment. Women and minorities are encouraged to apply.

FACULTY POSITION IN TRANSPLANTATION BIOLOGY RESEARCH THE LERNER RESEARCH INSTITUTE of the Cleveland Clinic Foundation

We are seeking an individual at the level of ASSIST-ANT, ASSOCIATE, or FULL PROFESSOR to develop a basic laboratory research program in transplantation biology which is jointly sponsored by the Department of Immunology and the Department of Urology. The successful candidate (Ph.D. or M.D.) will possess, or exhibit the potential to develop, an outstanding national reputation as a Basic Scientist using state-of-the art cellular/molecular approaches to study transplantation biology. Candidates using an established model to study chronic rejection or xenotransplantation are particularly encouraged to apply for this position. Generous start-up support and a highly competitive salary and fringe benefits will be provided. Lerner Research Institute of the Cleveland Clinic, comprising over 90 independent investigators and over 600 employees, has a long-standing commitment to excellence in basic and applied biomedical research with an annual budget in excess of \$50 million. The Department of Urology is a nationally recognized center of excellence for kidney disease and transplantation.

Send curriculum vitae and names and addresses of three references to: Dr. Andrew C. Novick, Chairman, Department of Urology, A100, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

Anatomy and Neurobiology. Boston University School of Medicine invites applications for two positions available at the rank of ASSISTANT/ASSOCIATE PRO-FESSOR. We particularly seek candidates with expertise in molecular and cellular research techniques, although applications from outstanding scientists from any area that complements the department's strengths will be considered. Current research interests of the department include, but are not limited to, multidisciplinary approaches to nonhuman primate models of aging and age-related neurologic disease and plasticity and development of the visual system. Applicants should have demonstrated experience and publications in neuroscience and at least two years of postdoctoral experience. The candidate should be able to provide evidence of excellence in teaching and will be expected to participate in team-teaching of microscopic anatomy and neuroscience. Experience in teaching gross anatomy is helpful. Send curriculum vitae, statement of goals, three representative publications, and names of three references to: Julie H. Sandell, Ph.D., Chair, Search Committee, Department of Anatomy and Neurobiology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. The application deadline is May 1, 1998. Boston University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



University of Pennsylvania School of Medicine

PHARMACOLOGY DEPARTMENT

An ASSISTANT PROFESSOR in the non-tenure track is being recruited to work in the area of bioactive lipids and oxidant stress. Applicants should have postdoctoral experience and the ability to develop a strong, extramurally funded research program, as well as having the ability to teach and supervise students and research assistants. The successful candidate will participate in the research and teaching programs of the Center for Experimental Therapeutics. A strong background in mass spectrometry together with a demonstrated record of research productivity and at least three years of postdoctoral training are required.

Applicants should submit a cover letter, curriculum vitae, selected reprints or preprints, a statement of research interests, and three letters of recommendation to:

Garret A. FitzGerald, M.D. Chair, Pharmacology Department University of Pennsylvania School of Medicine Room 153, Johnson Pavilion 3620 Hamilton Walk Philadelphia, PA 19104-6084

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

SENIOR FACULTY POSITION BIOMATHEMATICS IN GENETICS

UCLA's Department of Biomathematics invites applications for a tenured PROFESSORIAL position from Theoreticians who have substantial research interests in genetics and in developing and using innovative mathematical methods to advance genetics research. Research orientations in molecular or epidemiological directions are equally valued. The department and its leading graduate program are committed to biologically realistic modeling and analysis, and hence strength in applied mathematics that enables research at a high level of complexity is valued. Versatility in research interests and mathematical/ computational skills also is highly regarded. UCLA provides a rich environment for scientific interactions that range from the molecular level to clinical applications, highlighted by the founding of a new Department of Human Genetics in the School of Medicine. Candidates who can commence employment by October 1998 are especially encouraged to apply. Application deadline is March 31, 1998. Send curriculum vitae, short statement of teaching and research interests, list of publications, and names and addresses of three individuals familiar with

Biomathematical Genetics Search Committee Department of Biomathematics UCLA School of Medicine Box 951766 Los Angeles, CA 90095-1766

UCLA is an Affirmative Action Employer.

LECTURER IN BIOLOGY SOUTHWEST TEXAS STATE UNIVERSITY

The Department of Biology at Southwest Texas State University (SWT) invites applications for a non-tenuretrack position at the rank of Lecturer. Applicants should have a Ph.D. in the biological sciences; experience in teaching introductory biology, botany, and zoology; and proficiency in the use of multimedia teaching technology. An additional responsibility will be assisting in the advising of undergraduate students. The Biology Department consists of 33 faculty, 1,300 undergraduate majors, and 100 graduate students. SWT, a comprehensive state university with over 20,000 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. Applicants should send a curriculum vitae, statements of teaching philosophy, and a list of three references (with addresses, telephone numbers, and e-mail) to: Lecturer Position, Dr. Francis L. Rose, Chair, Department of Biology, Southwest Texas State University, San Marcos, TX 78666-4614. More can be learned about our department at website: http://www. bio.swt.edu. Review of applications begins March 2, 1998, and will continue until a suitable candidate is found. SWT is an Affirmative Action/Equal Opportunity Employer, and is committed to increasing the number of women and minorities in faculty and administrative positions.

POSITIONS OPEN

WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE ASSISTANT/ASSOCIATE PROFESSOR

The Department of Physiology at Wayne State University (WSU) School of Medicine invites applications for tenure-track faculty positions at the level of Assistant/ Associate Professor. WSU is an exciting, dynamic, urban research environment with state-of-the-art facilities and is rated in the top third of all U.S. research institutions. We are seeking talented Researchers/Scholars to complement the existing strengths of the department, which are in the areas of endocrine, cardiovascular, and neurophysiology and range from the molecular/cellular to the whole-animal integrative levels. Excellent opportunities for collaboration with other researchers within the basic science and clinical departments exist. The successful candidates would be expected to continue strong, innovative, extramurally funded research programs and participate in the teaching of medical and graduate students. Highly competitive start-up funds, salaries, and research space are available. Review of candidates will begin April 1, 1998, and continue until the positions are filled. Applicants should send a curriculum vitae, research plan, and the names of three references to: Dr. Joseph C. Dunbar, Chairperson, Department of Physiology, Wayne State University, 540 East Canfield, Detroit, MI 48201. For more information regarding the department see our website: www.phymac.med.wayne.edu/physiology/ psl.htm.

All buildings, structures, and vehicles at WSU are smoke-free.
WSU is an Equal Opportunity/Affirmative Action Employer.
Wayne State University—people working together to provide quality service.

Applications are invited for the position of HEAD of the newly created Department of Environmental and Molecular Toxicology in the College of Agricultural Sciences at Oregon State University. This position offers the opportunity to lead a new Department that brings together multidisciplinary researchers in environmental and molecular toxicology. The Department includes an NIEHSsponsored graduate program in toxicology. Faculty are involved in a number of interdisciplinary centers and in-stitutes, two institutes of which are NIEHS-supported. The Department has 13 full-time tenured or tenure-track faculty and 45 graduate students. Most faculty are housed in the Agricultural and Life Sciences Research Building completed in 1992. The Department has active research programs that are backed by more than \$4.4 million of annual funding. Candidates should have the vision and intellectual breadth to lead a diverse department and a commitment to excellence in research and education in molecular and environmental toxicology. A Ph.D. in an appropriate discipline, a continuous record of outstanding research achievement and peer-reviewed funding, and demonstrated leadership qualities. Review of applications will begin May 1 and the position will remain open until an appropriate candidate is found. For further details, contact: The Chair of the Search Committee, Dr. Paul Jepson, Entomology, Cordley 2046B, Oregon State University, Corvallis, OR 97331. Telephone: 541-737-4733; e-mail: jepsonp@bcc.orst.edu.

Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

PHYSICS FACULTY POSITION INDIANA UNIVERSITY

Applications are invited for a TENURE-TRACK faculty position in physics, available in the fall of 1998. We seek outstanding candidates with demonstrated ability to initiate and lead a vigorous and innovative program of interdisciplinary experimental research at the interface of physics with chemistry and biology. We are especially interested in candidates with experience in scanningprobe and imaging methods and/or optical-trapping and manipulation techniques. An appointment at a more selevel could be considered for a truly exceptional candidate. Each application should include a curriculum vitae, a description of research interests and accomplishments, and a list of publications. Candidates should also have at least three letters of reference sent to: Professor Alan Kostelecký, Chair, Attn: Faculty Search, Swain Hall West 117, Department of Physics, Indiana University, Bloomington, IN 47405 USA. Applications received before March 15, 1998, may receive preference. Indiana University is an Equal Opportunity/Affirmative Action Employer.

CHIRON

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WE ARE A VITAL GLOBAL FORCE. A cogent synergy of science and technology, focused on one thing--controlling disease. Combining diagnostic, vaccine and therapeutic strategies, we wield our core expertise over some of the world's deadliest diseases, including HIV, hepatitis, cardiovascular disease and cancers. The fight is fierce. But through our four healing properties, we exert our shared power to take on disease and transform the practice of medicine around the world. As we continue to redefine ourselves and restructure our organization to best meet the challenges ahead, we seek the following professionals to join our SF Bay Area team.

Principal Scientist Toxicology Department

You will develop toxicology programs for drugs and biologics, perform contract research, represent Toxicology on development teams, write/review regulatory submissions, and conduct investigative studies. You should have a PhD in Toxicology or a related field and a minimum of 5 years of experience with at least 3+ years designing, conducting and evaluating preclinical toxicology studies in the pharmaceutical industry. You must be team-oriented and possess strong communication skills. Job Code: 2620

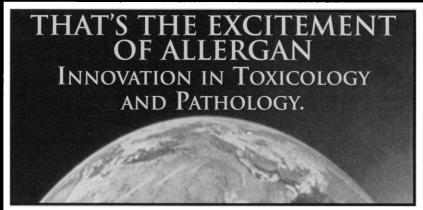
Associate Director Clinical Vaccines Research

You will manage clinical trials for vaccine candidates, ensuring timely studies and the scientific integrity of clinical data. This will involve selecting investigators, evaluating safety/adverse events, tracking progress, and developing budgets. Requires an MD with completion of an approved residency in a primary care specialty (internal medicine or pediatrics) with board certification; subspecialty training in infectious diseases or immunology preferred. Strong background in basic research, clinical research experience and computer proficiency preferred. Job Code: IMS

Located on four continents and in 97 countries around the world, Chiron employees enjoy a culturally blended environment that promotes courage, candor and creative exchange. To learn how you may join them, send your resume today, referencing the Job Code corresponding to the position of your interest, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. As an equal opportunity employer, Chiron honors diversity in every respect.

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Allergan, a technology driven company, is a global leader in specialty pharmaceutical products and surgical devices. We currently have opportunities in our Southern California corporate office within our Safety Evaluation department for the following individuals:

DIRECTOR OF TOXICOLOGY

Will provide technical leadership in toxicology, ensure/implement optimal toxicology development plan for new chemicals in support of corporate strategy for rapid drug development and guarantee high quality interpretation, integration and risk assessment of all related data to draw valid conclusions in support of product safety/dose selection for initiating clinical investigation in humans or regulatory submissions. Will also supervise the compilation of pharmacology, toxicology and pharmacokinetic sections of INDs, NDAs and PLAs for worldwide regulatory submissions, report preparation, safety updates and technical responses to regulatory questions.

Requires a D.V.M./Ph.D. or M.D./Ph.D. in a related specialty and 10 years' experience in drug development in a pharmaceutical company. Must have comprehensive understanding and competency in ocular, dermal and systematic toxicology, toxicokinetic, pathology, teratology, mutagenesis, pharmacokinetics, various laboratory animal model systems and FDA, GLP and USDA animal welfare regulations. Strong administrative background in supervising senior scientists and managing a large variety of projects is a necessity. Strong verbal/written communication skills are essential.

Manager of Toxicology

Will act as Study Director, establish optimal toxicological testing requirements, implement the study, provide interpretation and author the research reports in compliance with GLP regulations to support new pharmaceutical agents. Will also evaluate published/unpublished data, provide risk evaluation on new ingredients for regulatory submissions, initiate clinical trials in humans, participate in project team meetings and interface with scientists from other disciplines.

Requires a D.V.M. or Ph.D. in Toxicology/Pharmacology, 6 years' related background and comprehensive understanding/hands-on experience in conducting different studies in all laboratory animal species. Must have strong verbal/written communication skills, a full understanding of GLP and the ability to lead a group of scientists.

DIRECTOR OF PATHOLOGY

Will manage the Pathology department and perform gross necropsy and histopathological evaluation of tissues from ocular, dermal and systemic toxicological studies of pharmaceutical agents in different laboratory animal species. Will also evaluate/interpret tumoregenesis process in carcinogenicity studies, review existing toxicology/pathology data for safety and recommend potential acquisition compounds, as well as interface with regulatory agencies on a worldwide basis

Requires a D.V.M. or D.V.M./Ph.D. and board certification in Veterinary Pathology, as well as 8 years' experience in drug development/risk assessment in the Pharmaceutical industry. Must have strong technical, managerial, interpersonal and written/verbal communication skills.

TOXICOKINETICS SCIENTIST

Responsibilities include preparing reports, analyzing/interpreting pharmacokinetic data, developing methods/procedures, evaluating pharmacokinetic/toxicokinetic study design, implementing sample data management/reporting procedures and generating reports from quantitative HPLC and LC-MS/MS data using LIMS automation.

Requires an MS in Toxicokinetics, Pharmacokinetics, Chemistry or Biology and 4+ years' experience in Pharmacokinetics/equivalent or a Ph.D. and 0-2 years' experience. Must have strong computer (Excel, Word, LIMS), report writing, statistical, organizational, English grammar and spelling skills.

We reward our employees with a competitive salary, an excellent benefits package and a great working environment. Please send resume (e-mail preferred) to: resume@allergan.com If unable to e-mail, send resume to: Allergan, Attn: T2-1R, ADNL, Human Resources, 2525 Dupont Dr., Irvine, CA 92612. No phone calls please. EOE.



www.allergan.com



The Department of Occupational and Environmental Health Sciences at Wayne State University seeks applications for a tenure-track faculty position in toxicology at the rank of ASSISTANT, ASSOCIATE, or FULL PROFESSOR. The applicant should have a Ph.D. and/or M.D. degrees in biomedical sciences. All outstanding candidates will be given serious consideration, but applicants with previous teaching experience and a record of excellence in research will be given preference. An ability to sustain extramurally funded research is expected. Adequate laboratory space and competitive start-up funds will be available to the appointee. Salary and rank are commensurate with experience. Qualified candidates should send curriculum vitae, a concise description of research interests, teaching experience, and names, addresses, and telephone numbers of three references to: Deepak K. Bhalla, Ph.D., Chair, Search Committee, Department of Occupational and Environmental Health Sciences, 628 Shapero Hall, Wayne State University, Detroit, MI 48202. E-mail:

dbhalla@wizard.pharm.wayne.edu.
Wayne State University is an Equal Opportunity/Affirmative
Action Employer. Wayne State University—people working together to provide quality services. All buildings, structures, and vehicles
at WSU are smoke-free.

CONSERVATION MYCOLOGIST

ASSISTANT PROFESSOR. Academic year, tenure-track. Ph.D. in mycology or closely related field is required and demonstrated expertise in fungal systematics is strongly preferred. Expertise in fungal diversity, conservation, evolution, population genetics, phylogenetics, and quantitative genetic techniques, teaching experience, and postdoctoral experience are desired. Candidates should be interested in interacting with colleagues and students in areas such as conservation biology; animal, plant, or insect interactions; nutrient cy-cling; chemical ecology; symbioses; and wood or paper science. Excellent communication skills and enthusiasm for research and teaching that engages undergraduates and graduates are required. The successful applicant will develop a vigorous, independent research program and participate fully in undergraduate and graduate teaching. Applicants should submit a curriculum vitae, undergraduate and graduate transcripts, a brief statement of research and teaching interests, and ask three references to send letters by 27 March 1998 to: **Dr. James** Worrall, Search Committee, Faculty of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, 1 Forestry Drive, Syracuse, NY 13210. Website: http://www.esf.edu/faculty/efb/mycopath/mycopath.htm.

SUNY-ESF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

ASSISTANT PROFESSOR of physiology/anatomy. The Department of Zoology, Oregon State University seeks candidates for a tenure-track position as an Assistant Professor, available 16 September 1998. We seek applicants with postdoctoral research experience and the ability to develop an active grant-supported research program in an area of vertebrate physiology or anatomy. Teaching responsibilities will include an undergraduate course in human anatomy and physiology, directing an anatomy/ physiology laboratory course sequence (includes cadavers), and a graduate course in an area of specialty. Training in vertebrate anatomy laboratory courses and research interests that complement those of existing faculty members are highly desirable. The successful candidate will be expected to maintain an independent, externally funded research program, develop a strong graduate training program, and have a serious commitment to undergraduate instruction. Screening will begin 7 March 1998. Send a letter of application, curriculum vitae, statement of research interests, statement of teaching interests and qualifications, reprints of no more than four significant papers, and letters from three references to: Physiology/Anatomy Search Committee, Department of Zoology, Oregon State University, 3029 Cordley Hall, Corvallis, OR 97331-2914. Telephone: 541-737-3705. OSU is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual career couples.

POSITIONS OPEN

—— **NOVA**—— Southeastern University

Faculty positions. The College of Medical Sciences at Nova Southeastern University invites applications for the position of ASSISTANT PROFESSOR in the following areas: human gross anatomy, molecular and human genetics, medical microbiology, medical virology, general pathology, cardiovascular pharmacology, neuropharmacology, general pharmacology, and cardiovascular physiology. Candidates should have a Ph.D. in discipline and be prepared to teach courses to students in the Colleges of Osteopathic Medicine, Pharmacy, Optometry, Allied Health, and Dentistry. Applicants will also be expected to participate in graduate education, scholarship, and service. The starting date for the positions is July 1, 1998, pending approval of the Board of Trustees. Please send a letter of intent stating position desired; a résumé, copies of transcripts; and the names, addresses, and telephone numbers of three professional references to: Nova Southeastern University, Human Resources Department (HLF), 3301 College Avenue, Ft. Lauderdale, FL 33314. Nova Southeastern University is an Affirmative Action/ Equal Opportunity Employer.

FACULTY POSITION HUMAN MOLECULAR GENETICS

Creighton University invites applications for a tenure-track faculty position at the **ASSOCIATE PROFES-SOR** or **PROFESSOR** level. The appointment could be in one of several departments depending on the interest of the successful applicant. The candidate is expected to maintain a nationally competitive funded program in molecular genetics related to cancer. Candidates should hold the M.D. and/or Ph.D. degree and have experience with germ-line mutations and linkage analysis in cancer genetics research. There will be an opportunity to collaborate with an existing program that has an extensive resource of cancer-prone families. A competitive salary, generous start-up funds, and laboratory space will be available. A letter of application, curriculum vitae, and four letters of reference should be sent to: Henry Lynch, M.D., Faculty Search Committee Chair, Department of Preventive Medicine and Public Health, Creighton University School of Medicine, 2500 California Plaza, Omaha, NE 68178. Creighton University is an Affirmative Action/ Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR POSITION

The Department of Cell and Developmental Biology invites applications for a Research Assistant Professor position. Candidates are expected to develop an independent research program in the area of regulatory mechanisms of RNA splicing, combining genetic and molecular approaches. Three or more years of prior postdoctoral research experience is required. Submit curriculum vitae, statement of research plans, and three letters of reference by March 30 to:

Dr. Charles P. Emerson, Jr., Chair
Department of Cell and Developmental Biology
243 Anatomy-Chemistry Building
University of Pennsylvania
School of Medicine
Philadelphia, PA 19104-6058

Affirmative Action/Equal Opportunity Employer.

The Department of Surgery at Yale University School of Medicine is recruiting for an ASSISTANT PROFESSOR in the Section of Trauma and Critical Care in an expanding NIH-funded laboratory involved in the cloning of new genes in acute lung injury. Qualified candidates will have an M.D. and/or Ph.D., extensive experience in gene cloning and recombinant protein expression, innovative research productivity, excellent written/oral communication skills, and is expected to establish an independent research program.

A letter of application, curriculum vitae including list of publications, and three letters of reference should be sent by March 20, 1998, to: Reuven Ravinovici, M.D., Section Chief, Trauma and Surgical Critical Care, Department of Surgery, Yale School of Medicine, P.O. Box 208062, New Haven, CT 06520-8062.

Yale is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN



ASSISTANT PROFESSOR, TENURE-TRACK SCHOOL OF OPTOMETRY University of California, Berkeley

Applications are being accepted for a tenure-track, full-time faculty position from Clinicians and Researchers conducting clinical or basic research on eye diseases or vision disorders. Candidates should have an M.D., O.D., or Ph.D., postdoctoral experience (or equivalent), and a strong commitment to excellence in teaching and research. The successful applicant will be expected to develop an innovative independent research program that attracts extramural funding, to contribute to our interdisciplinary graduate program in visual science, and to teach professional-level courses in the School of Optometry.

Applicants should include a curriculum vitae, names and telephone numbers of three references, and a brief statement (maximum two pages) of research objectives and teaching interests. Application or letter of intent must be submitted by March 1, 1998, to: Chair, Faculty Search Committee, School of Optometry, University of California, Berkeley, CA 94720-2020.

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

WESTERN NEW ENGLAND COLLEGE

The Department of Physical and Biological Sciences at Western New England College invites applications for a full-time, tenure-track position at the ASSISTANT PROFESSOR level beginning in September, 1998. A Ph.D. is required at the time of hire. The applicant will evaluate, coordinate, and direct a program in environmental science that is grounded in quantitative chemistry; develop an off-campus internship program for upper-level students in the environmental science major; and teach upper-level courses suitable for this program. The applicant will also be expected either to teach introductory laboratory courses in one of the basic sciences (biology, chemistry, or physics), or to offer one or more courses in a biomedical engineering program. A dual science/engineering faculty appointment is possible depending upon qualifications. The College is primarily a teaching institution so evidence of teaching effectiveness is essential; research and scholarship is encouraged, especially that which involves students. Applicants should submit materials by March 15, 1998, to: Dr. Burton Porter, Dean, School of Arts and Sciences, Western New England College, 1215 Wilbraham Road, Springfield, MA 01119.

Western New England College is an Equal Opportunity Employer.

HARVARD UNIVERSITY ASSISTANT PROFESSOR MOLECULAR AND CELLULAR BIOLOGY (MCB)

The Department of Molecular and Cellular Biology intends to make an Assistant Professor appointment (entry level). Our department covers a broad range of topic including molecular biology, cellular biology, developmental biology, structural biology, neurobiology, molecular evolution, and molecular genetics. We are seeking outstanding candidates and strongly encourage applications from women and minority candidates. Applications should include a curriculum vitae, reprints of publications, and a statement of present and future research plans (one to three pages). Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than March 15, 1998. Mail applications to: MCB Search Committee, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138.

Harvard University is an Affirmative Action/Equal Opportunity Employer.

PROJECT LEADER for development of new catalysts. Immediate opening requires Ph.D. plus additional two to five years of relevant experience or equivalent, and strong communication skills. Industry and/or management experience a plus. U.S. ditzenship mandatory. Unusual opportunity to profit from growth of new company; attractive benefits and incentives package. Send résumé and sample of technical writing to: Recruitment, Biopraxis, Inc., P.O. Box 910078, San Diego, CA 92191-0078. FAX: 619-452-2416. Equal Opportunity Employer.

Laboratory Chief, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH seeks an individual to head a Laboratory at the Rocky Mountain Laboratories (RML). This program is located in the Bitterroot Valley in Hamilton, Montana, and is a component of the NIAID Division of Intramural Research. This position requires an M.D. Ph.D., or equivalent with proven leadership abilities and a strong independent research program. Preference will be given to candidates with research interest in bacterial pathogenesis including emerging and reemerging infectious diseases and those whose program complements other research programs at the RML. The Laboratory Chief will have independent resources to conduct their research and will supervise other Principal Investigators with independent research programs. A Laboratory Chief in the Division of Intramural Research is equivalent to a Department Head in a University or Medical School. Applicants must be U.S. citizens or permanent residents. Salary depends on degree and qualifications and ranges up to \$148,400. Interested persons may contact Dr. Karyl Barron, Deputy Director, DIR, NIAID at (301) 402-2208 or {kbarron@niaid.nih.gov} for additional information about the position A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests, and selected publications should be submitted by March 31, 1998, to: Ms. Melissa Keller, Office of Human Resources Management, NIAID, Building 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520.

NIH is an Equal Opportunity Employer.

TENURE TRACK INVESTIGATOR

NIDDK's Molecular and Clinical Hematology Branch is searching for a tenure-track investigator to develop an independent research program applying advanced molecular techniques (such as transgenic or gene knockout mice; cloning of novel genes and gene therapy) to clinically relevant issues related to congenital or acquired human hematopoietic disorders. The successful candidate must hold an M.D. degree and should have a strong record of scientific accomplishments in translational clinical research or molecular genetics. Candidates with a strong background in hematopoietic cell cycle control, stem cell biology, signal transduction mechanisms, gene isolation and identification are especially encouraged to apply. Applicants should send a brief statement of research interests, a CV, bibliography, and selected publications, and have three letters of reference sent to: Search Committee, Molecular and Clinical Hematology Branch; Bldg. 10, Room 9N307; National Institutes of Health; Bethesda, MD 20892-1822. Closing date is April 15, 1998.

NIH is an equal opportunity employer.

GLOBAL OPPORTUNITIES



NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF PHARMACOLOGY

Applications are invited for teaching appointments in the Department of Pharmacology.

Candidates should have either a degree in Pharmacology and a Ph.D. degree or an approved basic medical degree with a recognised higher academic/professional qualification. Preference will be given to candidates with teaching and research experience. A proven track record of high calibre, self-directed research in molecular pharmacology or toxicology will be an advantage.

The Department of Pharmacology, established about 40 years ago, has teaching commitments to medical, dental, pharmacy, and science students and has an active postgraduate research programme. Staff members are actively developing a strong reputation in research on venoms and toxins, pharmacogenetics, cardiovascular pharmacology, neuropharmacology, psychopharmacology, immunopharmacology, antibiotics in infectious diseases, clinical pharmacokinetics, natural product research, and gastrointestinal pharmacology. The Department has collaborative links with research institutes within NUS, with government departments and private industries. Some staff members are clinical consultants at the National University Hospital while others hold adjunct/joint appointments in the Bioscience Centre and Defence Medical Research Institute. The Department has basic and specialised facilities for research in pharmacology (MacLabs, thermal cycler, cation measurement system, HPLC systems, and GC-MSD).

The successful candidate/s should have a strong background in molecular biology or toxicology and is expected to make an immediate contribution to undergraduate teaching of medical, dental, pharmacy, and science students.

Gross annual emoluments range as follows:

 Lecturer
 \$\$58,840 - 74,800

 Senior Lecturer
 \$\$68,410 - 144,350

 Associate Professor
 \$\$128,050 - 177,750

 Professor
 \$\$156,780 - 211,140

In addition, a 13th-month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered.

In addition, appointees who possess an approved basic medical degree and a recognised higher academic/professional qualification may opt to retain consultation fees under the Consultation/Outside Work Scheme, or to receive a Fixed Allowance, the annual rates for which are as follows:

 Lecturer
 \$\$6,000/9,000

 Senior Lecturer
 \$\$15,000

 Associate Professor
 \$\$21,000

 Professor
 \$\$33,000

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, online library catalogue, CD-ROM databases, Video-on-Demand, INtv, and Internet.

Application forms and further information may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 119260
Fax: +65 778 3948

E-mail: perhuynh@nus.edu.sg

Website: http://www.nus.sg/NUSinfo/Appoint/APPL1.HTM

Only shortlisted candidates will be notified.

ASSISTANT/ASSOCIATE PROFESSOR PLANT MOLECULAR SYSTEMATICS

Florida International University (FIU) seeks to fill a tenure-track position to start in August of 1998, based partly at Fairchild Tropical Garden (FTG). FIU is a rapidly growing public institution of 30,000 students; Biological Sciences has 33 faculty (9 in plant biology, 7 in molecular biology), 1,250 undergraduate majors, and 125 M.S. and Ph.D. students. The successful candidate will teach undergraduate and graduate courses at FIU in his/her area of interest, participate in our new Program in Tropical Biology, add to the collaboration between FIU and FTG, and establish an active research program in the molecular systematics of tropical plants at the Research Center of FTG. For more information see website: http://www.fiu.edu/orgs/biology/syst.html. Ph.D. required, postdoctoral experience highly desirable. To apply, send curriculum vitae, statements of research and teaching goals, representative reprints, and names and addresses of three referees by 20 March 1998 to: David Lee, Plant Molecular Systematics Search Committee, Department of Biological Sciences, Florida International University, Miami, FL 33199.

FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.

ASSISTANT PROFESSOR

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School's Department of Biochemistry invites applications for a fully funded, tenure-track position at the Assistant Professor level. The successful applicant will be expected to establish and maintain a vigorous, independent, and extramurally funded research program and participate in the teaching activities of the department. All areas of biochemistry, cell biology, and molecular genetics will be considered. The candidate must possess a Ph.D., M.D., or equivalent degree, and productive postdoctoral training. Applicants should send a curriculum vitae, brief description of research, pertinent reprints, and arrange to have three to four letters of reference sent c/o: The Search Committee Chairs, Department of Biochemistry, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, 675 Hoes Lane, Piscataway, NJ 08854-5635. Deadline for applications is March 31, 1998. UMDNJ is an Affirmative Action/Equal Opportunity Employer, minorities/females/disabled/veterans, and a member of the University Health System of New Jersey.

Applications are invited for a tenure-track faculty position as an ASSISTANT/ASSOCIATE PROFESSOR in the Department of Pathology, Northwestern University Medical School, Chicago. This is a full-time, continuing appointment. Salary and rank will be commensurate with experience. The successful candidate will be expected to carry out an independent research program, preferably in the area of bacterial pathogenesis, drug resistance mechanisms, and host-parasite interactions. Preference will be given to individuals with proven capacity to attract extramural funding. Clinical and teaching responsibilities in the microbiology laboratory will allow 80 percent protected time for basic research. Please submit your curriculum vitae; a statement of areas of interest, expertise, and strengths; and the names of three professional referees no later than March 1, 1998, to: Janardan K. Reddy, M.D., Professor and Chairman, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.

Northwestern University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

The Department of Surgery at Yale University School of Medicine is recruiting for an ASSISTANT PROFES-SOR in the Section of Anatomy and Experimental Surgery in an expanding laboratory involved in surgical research, surgical education, and corporate surgical research and development. Qualified candidates will have an M.D. and/or Ph.D., extensive experience in surgical research and education, innovative research productivity, proven ability to work with corporate research and development and regulatory departments, and is expected to establish an independent research program.

A letter of application, curriculum vitae including list of publications, and three letters of reference should be sent to: Ronald C. Merrell, M.D., Chairman, Department of Surgery, Yale School of Medicine, P.O. Box 208062, New Haven, CT 06520-8062.

Yale is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

ASSISTANT PROFESSOR in small animal sciences to teach small animal ecology and ethology. Ph.D. and interest or experience in wildlife management required. Available September 1, 1998. Send curriculum vitae, transcripts, and three professional references to: Small Animal Sciences Search, Human Resources, Delaware Valley College, 700 East Butler Avenue, Doylestown, PA 18901. Equal Opportunity Employer.

ASSISTANT PROFESSOR MOLECULAR GENETIC MECHANISMS OF BIRTH DEFECTS

Applications are invited for a tenure-track appointment at the Assistant Professor level beginning September, 1998. Candidates must have a Ph.D. and/or D.D.S. or the equivalent. The successful candidate will have at least two years of postdoctoral experience and an active research program focusing on molecular or molecular genetic mechanisms of normal and/or abnormal mammalian embryonic development and will be expected to devel op an independent research program and successfully compete for external funding. Opportunities exist to collaborate with existing research programs in the Center for Birth Defects Research and a strong departmental program focusing on protein expression and trafficking. Ap plicants should send a curriculum vitae with list of publications, a description of research plans, and the names of three references to: Dr. William Young, Search Committee, Department of Biological and Biophysical Sciences, University of Louisville School of Dentistry, 501 South Preston Street, Louisville, KY 40292. The University of Louisville is an Equal Employment Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF ANESTHESIOLOGY

The Anesthesiology Research Unit is seeking to fill a tenure-track faculty position for a basic scientist at the ASSISTANT/ASSOCIATE PROFESSOR level. The successful candidate will be expected to use innovative cellular and/or molecular approaches to problems relevant to cell signaling (e.g., synaptic transmission, cell excitability, modulation, transmitter release). Generous start-up funds and space will be provided. The Unit provides a unique research environment with ongoing programs in the molecular biology of G-proteins, structure and function of ion channels, molecular targets of anesthetics, cellular physiology of excitable cells, and pain. Faculty members have joint appointments in a basic science department and are part of the strong graduate training program at Washington University. Candidates must have a Ph.D. and/or M.D. degree with appropriate postdoctoral experience. The application deadline is April 1, 1998. Interested individuals should submit a curriculum vitae, a statement of research plans, and names of three referees to: Search Committee, Anesthesiology Research Unit, Box 8054, Washington University, 660 South Euclid Avenue, St. Louis, MO 63110.

Northwestern University Medical School, Chicago, is recruiting a SENIOR INVESTIGATOR for full-time continuing appointment, with expertise in molecular and cellular parasitology at the rank of ASSOCIATE PRO-FESSOR/PROFESSOR, tenure-track, in the Department of Pathology. The successful candidate will be expected to carry out an independent research program, preferably in the area of parasite biology and host-parasite interactions, preferably in the area of malarial parasite infections, and also serve as an expert consultant to the Clinical Parasitology Laboratory of Northwestern Memorial Hospital. Candidates should possess a M.D. or Ph.D. degree, have demonstrated excellence and productivity in research with proven capacity to attract extramural funding. Salary and rank will be commensurate with experience. Send current curriculum vitae and names of three professional references no later than March 1, 1998, to: Janardan K. Reddy, M.D., Professor and Chairman, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.

Northwestern University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

POSITIONS OPEN

AUDITORY BASIC SCIENCE RESEARCH SCIENTIST THE DEPARTMENT OF OTOLARYNGOLOGY-HEAD AND NECK SURGERY University of California, Irvine

The Department of Otolaryngology–Head and Neck Surgery at University of California, Irvine, in conjunction with the Department of Anatomy and Neurobiology, invites applications for a full-time tenure-track position in the area of auditory physiology or auditory neuroanatomy. The position is supported by a University of California FTE in the Department of Otolaryngology–Head and Neck Surgery.

While the Departmental Chair, Roger Crumley, M.D., is primarily seeking candidates with an established research focus in the auditory system, applicants with other otolaryngology-related basic science interests will be considered. Both Departments provide a very supportive environment for research and teaching, and there are many excellent opportunities for campus-wide interdisciplinary research collaboration. In addition there is a new basic neuroscience facility to complement UC Irvine's already strong background and faculty in neuroscience and related disciplines.

Minimum requirements include a Ph.D. with a documented research program. The successful candidate will be expected to participate in certain teaching and clinical programs of the Department. Applicants should send curriculum vitae, a one- to two-page summary of research interests and plans, and the names and addresses of three individuals who act as references to:

Richard T. Robertson
Professor and Chair
Department of Anatomy and Neurobiology
College of Medicine
University of California, Irvine
Irvine, CA 92697-1275

STAFF SCIENTIST POSITION IN MOLECULAR BIOLOGY

Argonex Pharmaceuticals is seeking a MOLECULAR BIOLOGIST who will be responsible for identifying and characterizing the genes encoding tumor-rejection antigens that are recognized by CTL; isolating and expressing class I MHC genes, as well as other genes of immunological interest; and the molecular geneotyping of class I and II MHC genes. The ideal candidate will be highly motivated individual capable of performing innovative research in an interdisciplinary, team environment. A Ph.D. in molecular biology or a related field is required, as is a minimum of three years of postdoctoral experience.

minimum of three years of postdoctoral experience. Argonex is utilizing the DIRECT® technology developed by **Dr. Donald Hunt** and **Dr. Victor Engelhard** the University of Virginia to identify antigenic peptides that are candidates for tumor vaccines. The work environment features a recently renovated laboratory as well as state-of-the-art instrumentation and equipment for cell culture and assays, cellular immunology, protein chemistry, and mass spectrometry. The person chosen for this position will be responsible for developing the molecular biology core laboratory. Argonex offers a highly competitive salary and benefits package.

Qualified candidates should forward their curriculum vitae, a one- to two-page summary of their previous research experience, and the names and addresses of three references to: Dr. Kevin T. Hogan, Argonex Pharmaceuticals, Suite 1, 706 Forrest Street, Charlottesville, VA 22903. An Equal Opportunity Employer.

ALZA Scientific Products, a division of ALZA Corporation, is seeking **COMMERCIAL PARTNERS** to grow our ALZET $^{\oplus}$ Osmotic Pump business.

ALZET Osmotic Pumps are miniature, implantable infusion pumps for use in laboratory animal research. These pumps can be implanted subcutaneously, intraperitoneally, or with a catheter for targeted delivery to specific tissues or organs. The ALZET Osmotic Pump offers a unique way for researchers to explore the effects of rate-and duration-controlled delivery of a wide range of agents. Over 5,200 scientific articles attest to the successful use of ALZET Osmotic Pumps in the research setting.

We are currently looking for distributors in all areas except the United States, Canada, western and northern Europe, Japan, and Australia. If the ALZET Osmotic Pump fits into your product portfolio and you have Research Scientists as your customer base, please contact us by FAX: 650-962-2488 or by mail at the following address: ALZA Corporation, ALZA Scientific Products, Attn: John Klein, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0802.



United States Environmental Protection Agency Postdoctoral Program National Exposure Research Laboratory

The U.S. Environmental Protection Agency (EPA) is seeking candidates to fill as many as 50 federal, three-year postdoctoral research positions during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Exposure Research Laboratory (NERL). NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators); waste site characterization; remote sensing; and landscape ecology. NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging pathogens in water supplies; exposure of children to pesticides; exposure of humans and ecosystems to endocrine disruptors; multi-pathway exposure modeling in humans; development of integrated multimedia transport and fate models; and assessment of the relative importance of exposure to a variety of stresses in regional ecosystems and large watersheds.

Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, physics, biology, microbiology, ecology, geography, applied mathematics and statistics, human health sciences, meteorology, computer science, and environmental or chemical engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years.

The NERL postdoctoral positions will be located in a division at either Research Triangle Park, North Carolina; Cincinnati, Ohio; Athens, Georgia; Las Vegas, Nevada; or Reston, Virginia, depending on the particular disciplinary focus, and will be filled beginning September 1998. These term appointments will last for three years and offer a salary range of \$38,593-\$60,135, commensurate with qualifications. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. *United States citizenship is a requirement of all these jobs*.

If you are interested in these postdoctoral positions, please send a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus and the geographic location(s) you prefer to Ms. Terri Burrell, U.S. Environmental Protection Agency, National Exposure Research Laboratory (MD-75), Research Triangle Park, NC 27711, Attn: Postdoctoral Positions. Please respond to this advertisement no later than March 31, 1998. After all responses are reviewed, candidates will receive written notice of the next stage of the application process no later than June 15, 1998.

For more information on the complete EPA postdoctoral program, you may access the Office of Research and Development's Internet site at http://www.epa.gov/ord/.

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

Senior Scientists (Senior Level Positions) \$99,200 - \$118,400

The FBI Laboratory is currently seeking Senior Scientists to provide a highly active, extensive and effective interface within the scientific and/or user communities. Ideal candidates will have a strong commitment to the advancement of science in the context of forensic science. We are currently seeking one of each of the following:

- Senior Scientist-Biology
- Senior Scientist-Chemistry
- Senior Scientist-Physical and Materials Sciences
- Senior Scientist-Computer and Information Systems

Requirements include a Ph.D. and postdoctoral experience in appropriate applied or a relevant discipline from recognized universities; 7 years pertinent RDT&E experience in applied scientific problem-solving, high productivity and quality; 3 years supervisory experience in a highly productive scientific/technical laboratory; extensive publication record in pertinent peer-reviewed scientific or technical journals, with extensive presentation skills; and strong written/oral communication skills. Position requires regular domestic and international travel.

Interested candidates should submit a detailed resume no later than March 6, 1998, to: **FBI Headquarters, Attn: SLS Dept., Room 3640, 935 Pennsylvania Ave., N.W., Washington, DC 20535-0001.** You must be a U.S. citizen and consent to a complete background investigation, polygraph, and drug test as a prerequisite for employment. The FBI is an Equal Opportunity Employer.

The Federal Bureau of Investigation



NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF MENTAL HEALTH Chief, Genetics Research Branch

The National Institutes of Health, National Institute of Mental Health, invites applications for the position of Chief, Genetics Research Branch within the Division of Basic and Clinical Neuroscience Research. The branch plans, supports, and conducts programs of research and resource development in basic and clinical research, focusing on the genetic basis of neural functioning, quantitative behavioral traits, and complex mental disorders such as schizophrenia, mood and other brain disorders.

Qualifications include an M.D. with a subspecialty in medical genetics, with appropriate postgraduate training in behavioral research, an M.D. with a subspecialty in psychiatry, with appropriate postgraduate training in genetic epidemiology or molecular or quantitative genetic research; or a Ph.D. in psychology, genetics, or another relevant field, with appropriate postgraduate training in genetic epidemiology or molecular or quantitative genetic research or equivalent training and experience. Candidates will be evaluated based on (1) professional knowledge of the principles, theories and practices applicable to the scientific fields of behavioral research, genetic epidemiology, molecular genetics, and quantitative genetics as applied to the study of neural function related to brain disease or behavior relevant to mental health and illness (selective factor),(2) professional knowledge of basic and applied research approaches and techniques in the genetic analysis of brain disorders or behavior relevant to mental health; (3) ability to manage major research programs; (4) oral communication skills; (5) written communication skills; and (6) supervisory skills.

This is a GS-15 Civil Service position with a salary range from \$77,000 to \$100,000 per annum. In addition, a recruitment bonus may be paid and relocation expenses may be paid. Physicians may be eligible for a Physician's Comparability Allowance (PCA) of up to \$20,000 a year. Benefits include a retirement plan, health and life insurance, Thrift Saving Plan, and sick and annual leave. The position may also be filled through the Commissioned Corps of the Public Health Service. U.S. citizenship is required. Minorities and women are encouraged to apply.

If interested, please submit an Optional Application for Federal Employment (OF-612) or a resume or C.V. plus bibliography to Ms. Margot Darby, NIMH, Personnel Management Branch, 5600 Fishers Lane, Room 7C-15, Rockville, MD 20857. Candidates are encouraged to address the evaluation criteria noted above in a supplemental statement. Applications will be accepted if postmarked by March 13, 1998 and received within 5 working days. For further information call Ms. Darby at (301)443-9094. A copy of the full text vacancy announcement is also available via the World Wide Web: http://www.nimh.nih.gov/orm/pmb/nimhjobs.htm.

The University of Iowa College of Medicine Protein Structure Facility is seeking to fill an ASSISTANT RE-SEARCH SCIENTIST position. The qualified individual will perform basic or applied research in the area of microcharacterization of proteins and peptides. Provide leadership in establishing a facility that is capable of delineating primary structure and assessing the nature of posttranslational modifications of proteins and peptides em-ploying "soft" ionization mass spectrometry techniques together with more classical methods of analysis (i.e., edman degradation employing a gas phase sequencer, 2-D gel electrophoresis, electroblotting to PVSF membranes, and in situ protease digestion on nitrocellulose). Position will carry the title Director of the Protein Structure Facility. Required qualifications: Ph.D. degree or equivalent (M.D.). Must have a fundamental understanding of the problem-solving capabilities that recent advances in mass spectrometry bring to the field of protein chemistry and the foresight to incorporate these techniques and extend their application. Excellent oral, written, and in-terpersonal skills are necessary along with the ability to plan and execute a research study through some progressively responsible independent research work. Desirable qualifications: A Ph.D. Chemist is preferred with prior experience in the field of protein chemistry along with working knowledge of ESI/MS and Maldi-TOF/MS. Send letter of application and résumé to: Ellen Twinam, Human Resources Specialist, College of Medicine, 272 CMAB, The University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

INVERTEBRATE ZOOLOGIST POSITION

We seek a broadly trained Invertebrate Zoologist with research interests in developmental biology for a tenuretrack, ASSISTANT/ASSOCIATE PROFESSOR position available September 16, 1998. Candidates must possess a relevant Ph.D. and demonstrate the ability to teach a diversity-oriented invertebrate zoology course. Other teaching may include introductory biology, animal biology, cell biology, or genetics, and a course in the candidate's specialty. The successful applicant will develop an active research program, involving undergraduate and Master's students, focusing on molecular and cellular aspects of development in invertebrates. For further information, contact: L. Raubeson, Telephone: 509-963-2734; e-mail: raubeson@tahoma.cwu.edu. Screening will begin March 21, 1998. To apply send curriculum vitae, teaching and research statements, up to three reprints, copies of all transcripts, and have three letters of reference sent to: Dr. Linda A. Raubeson, Invertebrate Zoologist Search, Department of Biological Sciences, Central Washington University, Ellensburg, WA 98926-7537. Website: http:// www.cwu.edu.

Central Washington University is an Equal Opportunity Employer/Affirmative Action/Title IX Institution.

ASSISTANT RESEARCH SCIENTIST

Full-time, non-tenure-track position at the University of Georgia in a comparative program on LPS-induced synthesis of inflammatory mediators by mononuclear cells. Duties: design, implement, and evaluate experiments; collaborate on proposals; and publish findings. Requirements: Ph.D. in biochemistry, immunology, or molecular biology, and Ph.D. or post-Ph.D. experience with LPS. Salary is commensurate with qualifications and experience. Deadline: March 31. Starting date: July 1. Send curriculum vitae, letter of intent, and the names and addresses of three references to: Dr. James N. Moore, College of Veterinary Medicine, University of Georgia, Athens, GA 30602. Telephone: 706-542-6326; e-mail: jmoore@calc.vet.uga.edu.

RESEARCH ASSOCIATE in pulmonary pharmacology available for recent Ph.D. in pharmacology or physiology. Project related to pharmacology of purine receptors and the involvement of second messenger systems in airway smooth muscle and epithelial cells. Salary commensurate with experience. Experience in pulmonary physiology preferred. Send curriculum vitae and three letters of recommendation to: Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Telephone: 919-816-2736. Affirmative Action/Equal Employment Opportunity. Accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.

POSITIONS OPEN



ARIZONA STATE UNIVERSITY UNIVERSITY VETERINARIAN/BIOLOGIST

The Department of Biology invites applications for a position that includes fifty percent administrative effort as University Veterinarian and fifty percent time as a member of the Biology Department. The University Veterinarian is a member of the Institutional Animal Care and Use Committee and advises the Committee on issues affecting animal care, housing, and use, and shares responsibility with the Committee for developing, implementing, and monitoring programs designed to insure regulatory compliance within an AAALAC-accredited institution. A doctorate in veterinary medicine; Board-certification or Board-eligibility in ACLAM; effective communication skills; demonstrated knowledge of a wide range of different animal model systems for research and teaching; and preparation to work cooperatively with laboratory and field scientists in meeting institutional animal requirements and in providing quality veterinary animal care are required. Desired: demonstrated high level of training, experience, and success with animal research and potential for success in obtaining research funding.

As a member of the Department of Biology, the applicant shall be expected to perform independent and/or collaborative research, teaching, and service. The University Veterinarian shall be expected to work with the university research faculty and the university administration and to facilitate the use of animals in research and teaching and to seek extramural funding to continue the development of an excellent animal care and use program. Professional rank and salary are open and shall be determined on the basis of applicant experience.

Please submit a curriculum vitae with e-mail address, selected reprints of published research, a statement of research accomplishments and future plans, a statement of teaching experience and interests and philosophy, a summary of experience and certification for institutional veterinary work, a statement of goals and vision for the future development of animal programs at major research universities, and three letters of recommendation to: Chair, University Veterinarian Search Committee, Department of Biology, Arizona State University, Box 871501, Tempe, AZ 85287-1501. FAX: 602-965-2519; e-mail: biology@asu.edu. Application deadline is March 13, 1998, with applications reviewed weekly thereafter until the position is filled. Arizona State University is an Affirmative Action/Equal Opportunity Employer.

IS THIS YOUR ONCE IN A LIFETIME OPPORTUNITY

Small, established Los Angeles biotech company seeks an individual with patented (or patentable), market-ready product(s) to be our CEO and RESEARCH DIRECTOR. We have the lab, people, and funds (but not all the money in the world). We are not looking for an employee as much as we are looking for a partner. Don't apply if you are only looking for a research job. This is a heavyweight, unique opportunity for someone who wants major equity, the chance to become rich, and to live in sunny southern California. Important: Please FAX a cover letter, including as much information as you are comfortable in sharing about your product and its potential. Include an estimate of the amount of money and time necessary to bring it to market. Additionally, please include your curriculum vitae. All replies will be held in strictest confidence. Please FAX to: Mr. Cole, FAX: 310-657-4222.

The Department of Biology invites applications for two LECTURE POSITIONS, one in the broadly de fined area of microbiology/immunology and the other in organismal biology with a focus on protists, plants, or animals. Both of these positions will be filled for the 1998–99 academic year and are one-year appointments. Each successful applicant will teach two undergraduate courses each semester, one upper-level course for biology majors (possibly with lab) and one non-science majors course. A Ph.D. is required and relevant teaching experience is desirable. The deadline for applications is March 15, 1998. Please send curriculum vitae, summary of teaching and related activities, and names of three references to: Ms. Phyllis Taylor, Department of Biology, University of Virginia, Charlottesville, VA 22903-2477. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SHELL CENTER FOR CELL AND GENE THERAPY BAYLOR COLLEGE OF MEDICINE HOUSTON

Opportunities for BASIC and CLINICAL SCIENTISTS at all academic levels are now available in this new Center, which is intended to exploit advances in cell and gene therapy for the treatment of human disease.

The facility consists of more than 60,000 square feet of dedicated laboratory and clinical space that includes basic research laboratories, as well as vector and cell production laboratories built and operated to current Good Manufacturing Practice Standards.

The Čenter operates as an interdepartmental resource, so all of its faculty will also become members of the basic or clinical science department most relevant to their interest, and will have access to that department's resources.

A total of 30 faculty are to be recruited. In the basic sciences, applications are particularly welcomed from individuals with an interest in stem cell biology, vector targeting/integration, or transgene regulation. In the clinical sciences, the initial focus will be on oncology, autoimmunity, neurology, and cardiovascular disease, but individuals with an appropriate research background in any clinical science are invited to apply. Interested candidates should submit a curriculum vitae and brief outline of their research interests to: Malcolm Brenner, Center for Cell and Gene Therapy, 1102 Bates MC3-3320, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affinnative Action/Equal Access Employer.

FUNGAL ECOLOGIST

The Department of Plant Pathology and Microbiology of Texas A&M University, College Station, Texas, invites applications for a 12-month tenure-track ASSISTANT PROFESSOR position to study the ecology of fungal plant pathogens. The individual filling this position will join the strong interdepartmental Program for the Biology of Filamentous Fungi that is supported by an NSF graduate training grant and a developing area of faculty strength in the biological control of plant diseases. It is expected that a grant-supported research program will be established based upon an important Texas disease problem. Teaching responsibilities can include graduate teaching and/or teaching in our expanding undergraduate bioenvironmental sciences degree program. Send a letter of application, curriculum vitae, a statement of research and teaching goals, and three letters of reference to: Fungal Ecology Search Committee, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843-2132. E-mail: d-ebbole@ tamu.edu. For information concerning our department see website: http://cygnus.tamu.edu/PLPA/dept_toc.html. Screening of applications will begin March 31, 1998. An Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST

Mycogen, a progressive biotechnology company, has an opening in their research group located in Indianapolis.

We are seeking an enthusiastic, dynamic team player to join our Cell Biology and Plant Transformation Group in conducting research on cotton. Requirements include one to three years of prior quality research in plant transformation, plant cell cultures, and somatic embryogenesis/regeneration; demonstrated abilities in designing experiments and interpreting data; strong interpersonal skills; and a Ph.D. in botany or a related discipline. Experience in agrobacterium-mediated plant transformation and knowledge of cotton tissue culture/transformation highly desirable.

We offer a competitive compensation/benefits package and a stimulating work environment. Please send/FAX your résumé with salary history (required) to: Mycogen Corporation, HR/SCRR, 5501 Oberlin Drive, San Diego, CA 92121. FAX: 619-453-0142. Equal Opportunity Employer.

MOLECULAR CYTOGENETICIST

Position available immediately for projects concerning CGH analysis of human tumor specimens and FISH mapping of viral integration sites in chromosomes from ratlymphomas. Experience in cytogenetics required; prior training in FISH or CGH preferred. Submit curriculum vitae and names of three references to: Joseph R. Testa, Ph.D., c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

OMBUDSMAN

GS-301-14/15

Salary Range: GS-14: \$66,138 - \$85,978 GS-15: \$77,798 - \$101,142

The Office of the Director, National Institutes of Health, Bethesda, Maryland, is seeking a highly motivated individual who (1) is a highly skilled ombuds practitioner and expert in the use of dispute resolution process options, (2) is a natural mediator, (3) sees him/herself as a catalyst for change, (4) remains open to diverse viewpoints and easily sees all sides of a problem, (5) seeks creative and integrative solutions to problems, (6) is able to build trust, (7) uses relationship building skills to persuade others, (8) is perceived as credible, competent and fair, and (9) is able to quickly develop networks and use various resources to acquire and maintain an understanding of the laws, policies, practices, and ethics of the organization. This individual will serve as the NIH Ombudsman with responsibility for administering the operations of its Cooperative Resolution Center. The Ombudsman will serve as a confidential and informal information resource, communications channel, complaint-handler, and dispute resolver, and help the NIH work for positive change. The Ombudsman will oversee several dispute resolution processes and collaborate with officials responsible for administering formal dispute resolutions systems and building constructive relationships by resolving disputes and making recommendations that will create a more positive work environment. The Ombudsman will also serve as a facilitator and mediator in specific cases and assign and oversee cases which may be resolved by facilitation, mediation, early neutral evaluation or the peer panel process. Applicants must meet the qualifications standards specified in the U.S. Office of Personnel Management Qualifications Standards Handbook for this position, as well as, the following Selective factor: Extensive experience in the ombudsman profession. In addition, applicants must have acquired the following multidimensional competencies: Expert Ombuds Practitioner, Creative Problem Solver, Change Facilitator/Partner, and Self-Image and Accountability, to get the results required to advance the NIH's research mission. U.S. citizenship is required. Interested parties are strongly encouraged to obtain Vacancy Announcement #OD-98-2009, by calling (301) 402-4111 (Reference Fax ID 2009). TDD phone number is (301) 402-1970. Opens: February 9, 1998; Closes: April 13, 1998. All application materials should be mailed to: National Institutes of Health, Business Management Services Office-A, Building 1/Room 332, 1 Center Drive, MSC 0182, Rockville, Maryland 20892-0182. Application materials must be postmarked by the closing date.

NIH is an equal opportunity employer.

DIABETES BRANCH, NIDDK NATIONAL INSTITUTES OF HEALTH Bethesda, Maryland

POST-DOCTORAL POSITIONS AVAILABLE

(less than five years experience)

GLUCOSE TRANSPORTER SUBCELLULAR TRAFFICKING

Postdoctoral Fellow is sought with confocal microscopy training for studies of glucose transporter subcellular trafficking and its regulation by insulin. A transient transfection system in combination with immunocytochemistry will be used to examine the roles of trafficking and regulatory proteins. Subcellular fractionation techniques are also in extensive use. Apply to: Sam W. Cushman, Ph.D., Diabetes Branch, NIDDK, Building 10, Room 5N102, 10 CENTER DR MSC 1420, Bethesda MD 20892-1420

Insulin-Like Growth Factors

Postdoctoral position available to study the function of the insulin-like growth factors and the type-1 insulin-like growth factor receptor. Ongoing projects include IGF-1 receptor signal transduction using molecular and cellular techniques and phenotypic characterization of tissue-specific gene knock-out mice. In addition, regulation of the sulfonylurea receptor genes and their function is being studied. The ideal candidate should have significant experience in molecular and cell biology. Apply to: Derek Le Roith, M.D., Ph.D., Diabetes Branch, National Institutes of Health, Building 10, Room 8S235A, 10 CENTER DR MSC 1770, Bethesda, MD 20892-1770, USA, Fax: (301) 480-4386, Email: derek@helix.nih.gov

MOLECULAR BIOLOGY OF ENERGY METABOLISM AND OBESITY

A position is available to study genes involved in energy expenditure and metabolic efficiency. We study gene regulation and function at the molecular (gene discovery, cloning and elucidation of control elements) and physiological levels (including transgenic and knockout mice). Current projects focus on uncoupling protein 3 (UCP3), leptin, and a transgenic mouse lacking adipose tissue (a model for lipoatrophic diabetes). Applicants must have a strong background in molecular biology and/or rodent physiology. Apply to: Marc Reitman, M.D., Ph.D., Diabetes Branch, NIDDK, Building 10, Room 8N-250, 10 CENTER DR MSC 1770, Bethesda MD 20892-1770. Voice: (301) 496-6090; Fax: (301) 402-0573.

INSULIN RECEPTOR SIGNALING AND INSULIN RESISTANCE

The laboratory focuses upon two principal research questions: 1. What is the molecular mechanisms whereby the insulin receptor mediates insulin action? 2. What are the genetic factors that predispose to the development of insulin resistance in noninsulin-dependent diabetes mellitus? To address these questions, we use a variety of experimental approaches including molecular biology, cell biology, receptor biochemistry, and molecular genetics. Preference will be given to candidates with prior training in at least one of these disciplines. Apply to: Simeon Taylor, M.D. Ph.D., Chief, Diabetes Branch, National Institutes of Health, Building 10, Room 9S213, 10 CENTER DR MSC 1829, Bethesda MD 20892-1829, USA; Fax: (301) 402-0573, Email: sit@box-s.nih.gov

NIH is an Equal Opportunity Employer

DIVISION HEAD. Science and Mathematics, Mississippi University for Women. Enrollment 3,300, 250 majors, 18 Science/Mathematics faculty. Ph.D. in math, physical or biological science, administrative experience preferred; teaching required. Start 1 July 1998. Curriculum vitae, graduate transcripts, and three letters of recommendation to: Personnel, Box W-1609, Mississippi University for Women, Columbus, MS 39701.

POSTDOCTORAL POSITION GONOCOCCAL PATHOGENESIS

Position in Department of Medical Microbiology and Immunology, Creighton University School of Medicine available immediately to study Neisseria genortheeae/host interaction in the human fallopian tube organ culture model. Work will involve use of molecular techniques, confocal microscopy, and computerized image analysis. Previous experience with molecular biology and infectious diseases pathogenesis preferred. PC and microscopy skills considered a plus. Funding is from a NIAID grant through September 2000. Opportunity for VA career development awards exists in VA-based lab. Please send curriculum vitae, brief statement of research interests, and names and addresses of three references to: Dr. Gary Gorby, Omaha VA Medical Center, 4101 Woolworth Avenue, Omaha, NE 68105. FAX: 402-977-5601; e-mail: gorby@omaha.va.gov. Applications will be accepted through March 30, 1998. Creighton University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY ONE-YEAR POSITION FOR ACADEMIC YEAR 1998–1999

Responsibilities include (1) fall semester 1998: teach molecular biology lecture and assist in preparation of spring semester genetics and molecular biology labs; (2) spring semester 1999: teach genetics lecture and lab, coteach cell biology lecture and molecular biology lab. Opportunities exist to mentor undergraduate researchers. Ph.D. required. Strong dedication to undergraduate teaching expected; teaching experience preferred. Salary competitive. Send letters of application, curriculum vitae, and names and telephone numbers of three references to: Dr. Theodore Burk, Chair of Biology, Creighton University, 2500 California Plaza, Omaha, NE 68178-0103. Applications must be received by March 16, 1998.

Creighton University is an Equal Opportunity Employer. Creighton strongly encourages applications from women and members of minority groups.

STAFF SCIENTIST GENE KNOCKOUT

Wayne Hughes Institute is currently seeking a motivated Staff Scientist to join a multidisciplinary team with experience in targeted gene disruption. The qualified candidate will have an M.S. or Ph.D. degree in molecular biology or related field plus two years of experience in preparing and targeting vectors, ES cell culture, screening of positive KO-ES cells, microinjection of blastocysts, screening and characterizing of knockout mice.

Wayne Hughes Institute has a state-of-the-art research environment, offering a competitive compensation package along with a comprehensive benefits package.

age along with a comprehensive benefits package.

Qualified applicants are requested to forward their curriculum vitae, a statement of research interests, and the names of at least three references to: Human Resources Department, Wayne Hughes Institute, P.O. Box 8178, St. Paul, MN 55108. An Equal Opportunity Employer.

STAFF ASSOCIATE

Staff Associate needed to participate in clinical studies and trials. Principally responsible for subject recruitment, including review of medical records; all logistics related to the project, including handling, distribution, and storage of blood samples; and inputting data into the computer. Applicants must have a background in nutrition, lipid and lipoprotein metabolism. Applicants must be familiar with computer programs, word processing, and databases. Please send curriculum vitae to: Department of Medicine, Columbia University, 630 West 168th Street, Room P&S 9-510, New York, NY 10032. We take Affirmative Action toward Equal Employment Opportunity.

POSITIONS OPEN

NEUROIMAGING SCIENTIST ROTMAN RESEARCH INSTITUTE Baycrest Centre for Geriatric Care Fully Affiliated with the University of Toronto

The Rotman Research Institute of Baycrest Centre invites applications for a Neuroimaging Scientist position. The successful candidate will engage in a research program on the development and application of neuroimaging technologies for use in the study of human cognition and neurological disorders. The candidate must possess a Ph.D. or equivalent and have demonstrated experience in neuroimaging.

The Rotman Research Institute is part of a large collaborative neuroimaging community that provides access to modern imaging methods. The Rotman has a fully equipped event-related potential (ERP) laboratory inhouse. Access to positron emission tomography (PET) is through the Clarke Institute of Psychiatry, and structural and functional magnetic resonance imaging (MRI) is available through the Sunnybrook Health Sciences Centre

Some examples of research that a successful candidate would conduct are development of analytic tools for PET or MRI; development of computational tools to integrate data between different imaging methods; construction of biologically accurate models for dipole source localization in ERP. The candidate would work closely with the Neuroscientists at the Rotman and collaborating institutes and will be eligible for cross-appointment at the University of Toronto at the ASSISTANT or ASSOCIATE level.

Applicants should submit, by May 1, 1998, a covering letter describing current research interests and future research goals, a complete curriculum vitae, relevant reprints, and the names of three potential references to:

Dr. A. R. McIntosh
Rotman Research Institute
Baycrest Centre for Geriatric Care
3560 Bathurst Street
Toronto, Ontario M6A 2E1 Canada
Telephone: 416-785-2500, ext. 3522
FAX: 416-785-2862
E-nail: mcintosh@psych.utoronto.ca

Baycrest Centre and the University of Toronto encourage applications from qualified women and men, members of visible minoritics, aboriginal peoples, and persons with disability. In accordance with Canadian immigration requirements, this advertisement is directed firstly to Canadian citizens and permanent residents.

INSTRUCTOR POSITION, Full-time, 12-month teaching position at the Instructor level. Primarily responsible for directing undergraduate labs in molecular biology, biochemistry, systems physiology, and histology. May include lecture assignments. Minimal qualifications: Ph.D. preferred (M.S. with teaching experience considered) with broad background in basic medical sciences and commitment to undergraduate teaching. Include any teaching experience in curriculum vitae. Closing date is April 1. Starting date August 1, 1998, or earlier. Please send curriculum vitae and names of three references to: Search Committee, Department of Biomedical Sciences, UCOM 6000, University of South Alabama, Mobile, AL 36688. E-mail: sitaya@usamail.usouthal.edu; website: http://www.usouthal.edu/usa/allied/biomedic.htm. The University of South Alabama is an Affirmative Action/Equal Employment Opportunity/Minorities/Females/Disabled Employer.

POSTDOCTORAL RESEARCH ASSOCIATE positions are available, one immediate and the other in late 1998, to study the mode of action of antipsychotic drugs and substances of abuse. Applicants should hold Ph.D. or equivalent with strong neuroscience background. Experience with intracellular and/or patch-clamp recordings in in vitro brain slice preparations is desirable. Send curriculum vitae and three references to: Rex Y. Wang, Ph.D., SUNY at Stony Brook, Department of Psychiatry, Putnam Hall, Stony Brook, NY 11794-8790. FAX: 516-632-9433; e-mail: rex. wang@sunysb.edu.

A POSTDOCTORAL POSITION in molecular toxicology is available. The person will conduct studies concerned with the molecular mechanisms of toxicity of environmental contaminants. The position is available April 1, 1998. To apply, send curriculum vitae and names and addresses of three references to: Dr. S. J. Stohs, School of Pharmacy and Allied Health Professions, Omaha, NE 68178. Equal Employment Opportunity/Affirmative Action.

POSITIONS OPEN

RESEARCH POSITIONS

The immunohematology/immunochemistry research program of the Blood Research Institute seeks qualified individuals (M.D. and/or Ph.D.) with research interests in immunochemistry or vascular biology plus experience/expertise in protein chemistry, membrane biophysics, or cell and molecular biology. Current research focus is the regulation of plasma membrane, phospholipid asymmetry, and the interaction of complement and coagulation systems at cell surfaces. Candidates for Postdoctoral Fellowship or staff appointments will be considered. Send résumé, brief description of research interests, and references to:

Peter J. Simms, M.D., Ph.D. The Blood Research Institute The Blood Center P.O. Box 2178 Milwaukee, WI 53202-2178 FAX: 414-937-6284 E-mail: peter_s@bcsew.edu

LECTURER/RESEARCH ASSOCIATE in biology. The Department of Biology at Vanderbilt University invites applications for a temporary, non-tenure-track position with time divided between teaching and research in the laboratory of one of the permanent faculty. Teaching will include a large course for non-majors (approximately 200 students) on the subject of human biology and another course which complements the needs of the department. For more specific information about our department, contact our website: http://www.biology.vanderbilt.edu/BioWWW/biodept.htm. Applicants should submit a curriculum vitae, description of research interests, teaching experience, and arrange to have three letters of recommendation sent by March 31 to: Human Biology Search Committee, Department of Biology, Box 1812 Station B, Vanderbilt University, Nashville, TN 37235 USA. Vanderbilt is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION available in the Department of Pathobiology. Our research focuses on the role of the Myc oncoprotein in tumor vascularization. Downregulation by Myc of inhibitors of angiogenesis is of particular interest, as is the interplay between Myc and tumor suppressor genes during this process. New experimental models are also under development (B-cell lymphoma, angiosarcoma). Experience with cell culture and/or gene expression analyses is desirable. Send curriculum vitae and names of three references to: Dr. Andrei Tikhonenko, Department of Pathobiology, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6051. FAX: 215-898-0719; e-mail: andreit@vet.upenn.edu.

POSTDOCTORAL POSITION available to study human tumor antigens (glycoproteins, mucins, and glycolipids) using a combination of immunologic, biochemical, and molecular approaches (see Research Programs in website: www.mskcc.org/lr.htm for more information). Candidates should have a background in molecular biology, biochemistry, or protein purification. Send curriculum vitae and names of three references to: Kenneth O. Lloyd, Ph.D., Immunology Program, Memorial Sloan-Kettering Institute, 1275 York Avenue, New York, NY 10021. Memorial Sloan-Kettering Institute is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study molecular mechanisms of cholesterol homeostasis, focusing on intracellular cholesterol transport and cloning and characterization of the human NPC2 gene. M.D., Ph.D., or equivalent and a background in molecular and cellular biology required. Send curriculum vitae and names of three references to: Dr. Daniel Ory, Center for Cardiovascular Research, Washington University School of Medicine, Box 8086, 660 South Euclid Avenue, St. Louis, MO 63110. FAX: 314-362-0186; e-mail: dory@imgate.wustl.edu.

NEUROPHYSIOLOGY PRODUCT MANAGER for instruments and electrodes is needed. Electrophysiology technique experience required. Corporate information at website: www.a-msystems.com. The applicant should send curriculum vitae, research summary, salary requirement, and references to: Human Resources, A-M Systems, Inc., P.O. Box 850, Carlsborg, WA 98324 USA. E-mail: personnel@a-msystems.com.

MEDICAL OFFICER

The Centers for Disease Control and Prevention's (CDC) Arctic Investigations Program is seeking a Medical Epidemiologist to work closely with other physicians, nurses, and computer, statistics, and laboratory personnel in the prevention and control of infectious diseases in remote Arctic populations. Attention is currently focused on S. pneumo, Hib, H. pylori, RSV, and hepatitis A and B. The position requires a physician, trained in epidemiology, who is eligible for clinical priveleges and willing to do patient care. The position is located in Anchorage, AK. Some travel is required into rural Alaska. The salary range \$62,903-88,396 per annum, plus 25% cost of living allowance; plus Physicians Comparability Allowance in the range of \$6,000-\$10,000 per annum. Position requires U.S. citizenship. For further information contact: Kenneth Petersen, M.D., telephone 907-729-3426 or e-mail: kmp1@cdc.gov. Address replies with curriculum vitae, names and contact information for three references, and statement of interests to: Janie L. Oddy, Personnel Management Specialist, Human Resources Management Office, Centers for Disease Control and Prevention, 4770 Buford Highway, MS K-15, Atlanta, GA 30341-3714. E-mail: jlo0@cdc.gov.

MEETINGS

FIRST ANNUAL MEETING
ON THE
EXPERIMENTAL THERAPEUTICS
OF HUMAN CANCER

June 11-13, 1998 Hood College, Frederick, MD

Organizing Committee:

R Klausner E Liu

C Allegra G Vande Woude
D Lowy E Sausville
R Wittes C Takimoto

Designed to foster interaction and communication between basic and clinical scientists interested in new and novel approaches to the treatment of human cancer.

Contact Information:

Margaret Fanning, FACS P.O. Box 249, 12120 Main Street Libertytown, MD 21762 301-898-9266, Fax 301-898-9173

Please check our website at **WWW.FACSI.ORG** for more details and registration information.



Exelixis Pharmaceuticals, Inc. is a rapidly growing, well-funded private biotechnology company located in the San Francisco Bay Area. Our mission is to identify novel therapeutic targets for drug discovery by elucidating the biochemical pathways involved in human diseases. Our current research programs are focused on metabolic disorders, neurodegenerative diseases, and cancer. We use a combination of invertebrate genetics (*C. elegans* and *Drosophila*), genomics, and vertebrate biology to identify key molecules in the pathways contributing to these disease states. Exelixis is also committed to developing new approaches to the control of agricultural pest species, and we are applying our core technology in genetics and genomics to the discovery of specific targets for crop protection and animal health.

C. elegans Genetics/Biology (JK-01-G)
Drosophila Genetics/Biology (CK-01-G)
Vertebrate Molecular Biology (JW-01-G)
Agricultural Biotechnology (JM-01-G)
Genome Analysis (AG-01-G)
DNA Sequencing (CS-01-G)
Bioinformatics & Information Technology (CB-01-G)
Laboratory Automation & Robotics (CB-02-G)

We seek highly motivated individuals with knowledge and interest in the above listed disciplines who wish to apply their talents to the elucidation of human disease pathways or the control of agriculturally important pests. Excellent communication skills and the ability to participate in a team-oriented environment are essential. We are accepting applications for all experience levels: **post-baccalaureate**, **post-doctoral** and **senior scientists** are welcome to apply.

We offer attractive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. More information about us can be found on our web site (www.exelixis.com). To apply, please reference the applicable job code(s) and send your resume to:

Exelixis Pharmaceuticals, Inc. Attn: HR Department 260 Littlefield Avenue South San Francisco CA 94080 Fax: (650) 825-2204 Email: careers@exelixis.com

Equal Opportunity Employer

POSTDOCTORAL RESEARCH SCIENTIST

Immediate opening for a Postdoctoral Research Scientist to work on collaborative projects addressing molecular mechanisms of ion channel expression and regulation in normal and genetically altered heart. Projects in the laboratory include work on several transgenic mouse models of human disease, including disruption of the beta-adrenergic signaling cascade in heart failure models and ion channel mutations in the congenital long QT syndrome. Techniques used include single-cell patch clamp recording procedures of whole cell and single channel events and basic molecular biological and biochemical techniques. The successful candidate will be enthusiastic, energetic, skilled at these technical approaches, and eager to collaborate with multiple groups outside the parent laboratory. The extensive scientific environment of Columbia University offers an outstanding opportunity for these collective efforts. Please send curriculum vitae and references to: Robert S. Kass, Ph.D., Professor of Pharmacology (in the Center for Neurobiology and Behavior) and Chairman, Department of Pharmacology, PH 7W Room 318, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-8780; e-mail: kasrobe@cpmail-am.cis.columbia.edu.

Columbia University takes Affirmative Action toward Equal Employment Opportunity.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE VASCULAR CELL AND MOLECULAR BIOLOGY

Two positions for Fellows or semi-independent Research Scientists to pursue regulation of gene expression in endothelial cells. Emphasis is on the identity and mode of action of transcription factors involved in the induction of growth factor/cytokine genes and endothelial-leuko-cyte adhesion molecules. This laboratory effort is part of a team of highly interactive scientists studying multiple aspects of vascular cell and molecular biology in vitro and in vivo. Competitive salary and fringe benefits, including eligibility for a \$10,000 per year supplemental award as a Lerner Research Institute Fellow.

Send curriculum vitae and names of three references to:

Dr. Paul E. DiCorleto Chair, Department of Cell Biology-NC10 Lerner Research Institute of the Cleveland Clinic 9500 Euclid Avenue Cleveland, OH 44195 E-mail: dicorlp@cesmtp.ccf.org

POSTDOCTORAL POSITION for the structurefunction relationship studies on the molecular assembly of a novel thermophilic bacterial cellulolytic protein complex with potential biotechnology applications. The ribosome-like quaternary structure facilitated by a large scaffolding protein will be studied using molecular biology, biochemistry, enzymology, and protein NMR approaches leading to protein engineering for probing the molecular structures and exploring novel enzyme designs. Newly renovated lab with excellent facilities. Expertise in molecular biology and protein biochemistry is required. Send résumé and names and telephone numbers of three references to: David Wu, University of Rochester, 206 Gavett Hall, Rochester, NY 14627. FAX: 716-442-6686; e-mail: davidwu@che.rochester.edu.

POSTDOCTORAL POSITION immediately available to work on the molecular pathogenesis of autoimmune blistering disease of skin and mucous membranes. Work focuses on the identification, purification, cloning, and expression of novel proteins. Experience in molecular and cellular biology is required. Background in immunology preferred. Send curriculum vitae and name and address of three referees to: Dr. A. Razzaque Ahmed, The Center for Blood Research, Harvard Medical School, 800 Huntington Avenue, Boston, MA 02115. FAX: 617-278-3493.

POSTDOCTORAL POSITION available for BIO-CHEMIST/BIOPHYSICIST to study the kinetics and equilibria of protein synthesis initiation factors interacting with mRNA. Experience in fluorescence spectroscopy, stopped-flow kinetics, and protein purification preferred. Please send curriculum vitae and three letters of recommendation to: Dr. Dixie J. Goss, Professor, Department of Chemistry, Hunter College City University of New York, 695 Park Avenue, New York, NY 10021. FAX: 212-772-5383; e-mail: dgoss@heiira.hunter.cunv.edu.

POSITIONS OPEN

MOLECULAR BASIS OF MELATONIN RHYTHMS

A POSTDOCTORAL POSITION is available to study the mechanisms of regulation (including phototransduction and entrainment) of circadian rhythms, and their expression in rhythms of melatonin synthesis (including enzyme induction and inactivation), as displayed by chick pineal cells in primary culture. Molecular, biochemical, and pharmacologic approaches are used. Applicants should have a strong background and interest in gene expression and molecular biology and/or transduction and second/third messengers. Candidates with good publication records will be given preference. Prior experience in one or more techniques related to transgene generation, analysis of gene expression in situ or signal transduction cascades, and/or tissue culture is essential. Please send curriculum vitae, a brief statement of research background and interests, and the names and e-mail addresses of three references to: Martin Zatz, Ph.D., M.D., Lab of Cellular and Molecular Regulation, National Institute of Mental Health, Building 36, Room 2A-17, 36 Convent Drive MSC 4068, Bethesda, MD 20892-4068. E-mail: zatz@codon.nih.gov; website: http://intramural.nimh.nih.gov/zatz.htm.

NIMH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE TO STUDY NITRIC OXIDE SYNTHASES

A position is available July 1, 1998, to study structure: function relationships, regulation, and protein:protein interactions of endothelial, neuronal, and inducible nitric oxide synthases. See: *J. Biol. Chem.* 272:1276, 1997; *J. Biol. Chem.* 272:18522, 1997; *J. Biol. Chem.* 272:28187, 1997. Background of the applicant is less important than the willingness and aptitude to learn. Ability to work independently and written communication skills are also required. Send application, curriculum vitae, and names of three references to:

Richard C. Venema, Ph.D. Vascular Biology Ćenter Medical College of Georgia Augusta, GA 30912 Telephone: 706-721-2576 FAX: 706-721-8555

E-mail: rvenema@mail.mcg.edu

POSTDOCTORAL POSITION

Applicants are invited for a Postdoctoral position that will involve the development of novel cellular and viral vector-based strategies for delivering anti-cancer therapeutic genes. The laboratory has been successful in identifying new anticancer genes that function through direct cytotoxic or antiangiogenesis pathways, and there will be continued emphasis placed on targeted antiangiogenesis strategies. These studies involve molecular and classic virology, cell biology, and animal studies, and, therefore, training in one or more of these areas is desirable. Send curriculum vitae and the names of three references to: Dr. Howard A. Fine, Department of Adult Oncology, Room 1234, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-4773; email: howard_fine@macmailgw.dfci.harvard.edu. We are an Equal Opportunity Employer.

POSTDOCTORAL FELLOW in chemical senses available (for three years depending upon annual performance) to study the modulation of ion channels via tyrosine phosphorylation involved in olfaction physiology. Must be previously trained in molecular biology or single channel electrophysiology; will be trained in field not experienced. Please send curriculum vitae, reprints, letters of recommendation, and career objectives to: Debra Ann Fadool, 331 Funchess Hall, Zoology Department, Auburn University, Auburn, AL 36849. Deadline: April 20, 1998. See website: http://www.ag.auburn. edu/~dfadool/.

Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION AUTOIMMUNITY

Study lupus in TCR-transgenic mice and in humans (J. Clin. Invest. 97:2063, 1996; J. Exp. Med. 187:367, 1998). Expertise in cellular, molecular immunology and mouse models required. Send résumé to: Dr. Syamal K. Datta, Arthritis and Immunology, Ward 3-315, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: skd257@nwu.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY NATIONAL CANCER INSTITUTE

Immediate openings exist for full-time Postdoctoral Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumors in murine models and in humans.

We seek candidates with experience in cellular immunology as well as molecular biology. Ongoing projects include the study of immune tolerance to tumor-associated differentiation antigens, the development of synthetic and recombinant anticancer vaccines, and the cloning of new tumor associated antigens.

Send cover letter, résumé, and statement of research interests to:

> Steven A. Rosenberg, M.D., Ph.D. Chief of Surgery National Cancer Institute Building 10, Room 2B42 Bethesda, MD 20892-1502 Telephone: 301-496-4164

Selection for these positions will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

POSTDOCTORAL POSITIONS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

University of Texas Medical Branch at Galveston

Three Postdoctoral positions are available immediately to study mechanisms of HIV pathogenesis and latency and HIV antibody responses. Applicants should have a strong background in either molecular biology or protein chemistry and serology. Send a curriculum vitae and the names of three references to: Dr. Miles W. Cloyd, Ph.D., Professor, Department of Microbiology and Immunology, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-1019. UTMB hires only persons authorized to work in the United States; UTMB is an Affirmative Action/Equal Opportunity Employer. Minority/Females/Disabled/Veterans.

POSTDOCTORAL POSITIONS. NIEHS, NIH has an immediate opening for two Postdoctoral positions: MOLECULAR BIOLOGIST, PHYSIOLOGIST. Research focus is on the mechanisms and energetics of renal organic anion and cation secretory systems. These systems are critical in protection against the toxic effects of many xenobiotics, including drugs, environmental chemicals, and their metabolites. See: *Physiological Reviews* 73:765-796, 1993 for summary of research in this area. Applicants with a Ph.D. or M.D. and less than five years of postdoctoral experience should submit a curriculum vitae and three letters of reference by March 23, 1998, to: Dr. John Pritchard, Renal Pharmacology Section, LPC, NIEHS, P.O. Box 12233 Research Triangle Park, NC 27709. Telephone: 919-541-4054; FAX: 919-541-5737; e-mail: pritchard@niehs.nih.gov.

POSTDOCTORAL POSITION available to study the effects of environmental estrogens on the development of the rat prostate gland. The studies will use an in vivo model to examine how xenoestrogens alter prostate growth and differentiation at the histologic and molecular level. Applicants should have a recent Ph.D. and a background in cellular or molecular biology. Send a curriculum vitae and names of three references to: Dr. Gail Prins, Department of Urology, University of Illinois at Chicago, M/C 958, 820 South Wood Street, Chicago, IL 60612. E-mail: gprins@uic.edu.

University of Illinois at Chicago is an Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

We study the mechanisms of human DNA replication and repair of chromosomal damage. We also explore mo-lecular genetic approaches to HIV therapy. Our group is productive (see website: www.urmc.rochester.edu/ smd/biophys/faculty/bambara.htm) with an excel-lent record of future employment as academic faculty. Send curriculum vitae and three recommendations to: Dr. Robert Bambara, Biochemistry and Biophysics, Box 712, University of Rochester, Rochester, NY 14642.

Phylos EXCELLERATING EVOLUTION

Phylos, Inc. is a well-funded, privately held biotechnology company dedicated to developing and applying novel technologies in the field of Directed Protein Evolution. We are seeking highly talented individuals with proven backgrounds in technology development and innovation. Phylos offers a high quality scientific environment and tremendous opportunities for motivated individuals.

PATENT ATTORNEY

Responsible for obtaining the appropriate IP protection for Phylos technology, you will prepare and prosecute worldwide patent applications and provide intellectual property review. You will play a significant role in defining and effecting corporate strategy, including drafting, reviewing and negotiating agreements with significant IP content, working closely with the senior management team.

Applicants should possess a JD, and a BS in biological science, with a minimum of five years experience in drafting patent applications, and amendments, in the biotechnology/pharmaceutical industry; experience in drafting technology agreements (in- and out-licensing) and, have excellent verbal and written communication skills.

RESEARCH SCIENTIST: Ph.D MOLECULAR BIOLOGY & BIOCHEMISTRY

You will develop novel methods for directed evolution of proteins. Experience with *in vitro* recombination highly preferred, along with experience in *in vitro* selection, phage display, antibody affinity maturation, and affinity column preparation.

RESEARCH SCIENTIST: Ph.D. BIOORGANIC CHEMISTRY

You will synthesize chemical tools to explore interactions between proteins and nucleic acids in translation systems. The position requires a Ph.D. in Organic Chemistry and good knowledge of Molecular Biology. Candidates with 1-3 years research experience in peptide and nucleic acid chemistry are preferred.

PLEASE, NO PHONE CALLS.

Phylos offers a competitive compensations package including; health benefits, 401K, and stock options. Phylos is an equal opportunity employer. Send CV's to Phylos, Inc., 300 Putnam Avenue, Cambridge, MA 02139, or fax to (617) 491-9494.

RESEARCH SCIENTIST: Ph.D. PROTEIN BIOCHEMISTRY

You will purify proteins from expression systems and participate in selection to isolate proteins with unique binding properties. Experience in molecular biology, chromatgraphy, and correlation of macromolecular structure and function is required. Familiarity with cDNA libraries, eukaryotic protein expression, protein folding, or protein modeling is an advantage.

RESEARCH SCIENTIST: Ph.D MOLECULAR BIOLOGY & BIOCHEMISTRY

You will develop novel, in vitro methods for detecting protein-protein interactions. Experience in protein biochemistry, cDNA library preparation, and signal transduction preferred.

Innovation Teamwork Technology the World Needs

At Ethicon Endo-Surgery, a market leader in the development and manufacture of instruments for videoscopic surgery, a commitment to innovation and excellence has resulted in product lines of superior performance.

POSTDOCTORAL SCIENTIST

Applications are invited for a 2-year postdoctoral position with the surgical research and development team of Ethicon Endo-Surgery, a Johnson & Johnson company committed to the development of innovative surgical procedures and devices. This position provides first-rate exposure to surgical product development and offers involvement in developing, analyzing and reporting experimental results. You will work with a surgical device research team of board-certified veterinary surgeons and a veterinary technical staff. You will have the opportunity to interact with product teams of engineers, regulatory, manufacturing and marketing personnel.

Requirements include a DVM (or equivalent degree). Postgraduate surgical experience, willingness to work with laboratory animals and excellent communication skills are valuable assets.

We offer a competitive salary, comprehensive benefits and opportunity to work in a challenging, supportive environment reflecting acknowledged expertise in the development of surgical devices and goals of excellence.

To pursue a confidential inquiry, please send resume to: Ethicon Endo-Surgery, Mail Location 111, 4545 Creek Rd., Cincinnati, OH45242. An Equal Opportunity Employer.



EUROPEAN OPPORTUNITIES

THE UNIVERSITY OF LEEDS DEPARTMENT OF PHYSIOLOGY RESEARCH FELLOW

The above Wellcome-funded post is available from 1 July 1998 for a fixed period of three years to work on neural pathways involved in modulation of respiratory control (**Turner et al**, *Respir. Physiol.* **110**:277–285, 1997). The project will combine respiratory physiology, psychophysiology, cognitive and computational neuroscience.

Applicants should have a Ph.D. with relevant experience in two or more of the above areas and a working knowledge of human physiology.

Salary will be on scale for Research Staff Grade 1A within the range £15,159 – £19,371 p.a. according to qualifications and relevant experience.

Informal enquiries about the post may be made to Dr. Duncan Turner, tel +44 (0) 113 233 4221, e-mail d.turner@leeds. ac.uk, World Wide Web address, http://www.leeds.ac.uk/physiology/neurocog.

Application forms and further particulars may be obtained from Dr. Duncan Turner, Human NeuroCognition Laboratory, Department of Physiology, The University of Leeds, Leeds, LS2 9NQ, UK tel +44 (0) 113 233 4221, e-mail d.turner @leeds.ac.uk. In all enquiries please quote the reference number 104-057-004-027.

Closing date for applications 1 May 1998.

The University of Leeds promotes an Equal Opportunities Policy.

POSTDOCTORAL POSITION. Marine biotechnology. Postdoctoral position available immediately to participate in a Department of Energy-funded three-year study to develop molecular approaches for in situ identification of nitrate utilization by marine bacterial and phytoplankton in the South Atlantic Bight. This position involves a collaboration between Savannah State University and the Skidaway Institute of Oceanography. Responsibilities will include both research and participation in the development of a research-oriented graduate program in marine sciences at Savannah State University. The successful candidate should have demonstrated research ability in environmental molecular biology or microbiology and a background in marine sciences. It is anticipated that this position may lead to a tenure-track faculty position. Application deadline: March 15, 1998. To apply, send an application letter summarizing research/teaching experience and career goals, curriculum vitae, and the names and addresses of three references to: Savannah State University, Human Resources, P.O. Box 20601, Savannah, GA 31404. Minority candidates are especially encouraged to apply. Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL POSITION NEUROGENETICS, MOLECULAR BIOLOGY, AND NEUROPHARMACOLOGY

The Brain Function Research Institute (BFRI) is seeking laboratory staff to join fundamental research of dementia and related brain disorders. BFRI was newly founded in 1997 and is supported by the government. The main project is to make fundamental research for developing new antidementia drugs. Positions are available for individuals with Ph.D. in biochemistry or related field with experience in protein chemistry and/or molecular biology and interest in brain cell damage. BFRI offers a reasonable salary. For additional information, please contact: The Brain Function Research Institute, Executive Director: Tohru Sawada, M.D., Ph.D., c/o National Cardiovascular Center, 5-7-1 Fujishirodai, Suita, Osaka 565 Japan. Telephone: +81-6-834-7646; FAX: +81-6-872-8761.

UNIVERSITY OF TEXAS M. D. ANDERSON CANCER CENTER

POSTDOCTORAL FELLOW and RESEARCH ASSOCIATE positions are available immediately to study mouse embryonic development: (1) transcriptional activation of zygotic genome, and (2) neuronal/glial differentiation (see: EMBO J. 16:1721–1731, 1997 and references therein). Experience in (1) pronuclear injection and construction/analysis of transgenic mouse techniques, or (2) construction of adenoviral vectors is preferred. Please send curriculum vitae and a list of references to: Dr. Sadhan Majumder, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 316, Houston, TX 77030. Telephone: 713-792-8920; FAX: 713-792-6054; e-mail: majumder@audumla.mdacc.tmc.edu. MDACC is an Equal Opportunity Employer. Nonsmoking environment.

POSTDOCTORAL POSITION

A Postdoctoral position is available to study the mechanisms in neurobehavioral toxicity of Pb.

Qualifications: Ph.D. in pharmacology/toxicology/biochemistry with experience in pharmacology of dopaminergic and glutamatergic mechanisms. Recent publications, significant training in pharmacological techniques. Must be able to work as a member of a team and have good writing and verbal communication skills.

Contact:

Dr. Arun L. Jadhav Texas Southern University College of Pharmacy 3100 Cleburne Street Houston, TX 77004

Two POSTDOCTORAL POSITIONS available in a stimulating NIH-funded pulmonary research lab investigating (1) pulmonary infections (i.e., adherence/phagocytosis mechanisms, host response, and therapeutic strategies for *P. carinii* and *M. tuberculosis*) and (2) chemotherapeutic drug toxicities (i.e., bleomycin and BCNU) and DNA damage/repair. Experience with any of these areas as well as gene therapy or liposome/aerosol technology a real plus. Send résumé to: William Martin II, M.D., Indiana University, 425 WD OPW, 1001 West 10th Street, Indianapolis, IN 46202. E-mail: dkachel@mdep.iupui.edu.

POSITIONS OPEN

OUTSTANDING OPPORTUNITIES FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS Vascular Biology The University of Virginia

The University of Virginia offers a multidisciplinary program in vascular biology emphasizing physiology, pharmacology, biophysics, and cell biology of the vessel wall. Thirty-one investigators are participants in a training program with a long history of successful mentoring of both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of biophysics, cell signaling, and microcirculation. Laboratory investigations are underway in cell-cell communication; cardiac, smooth muscle, and endothelial cell electrophysiology; smooth muscle cell signal transduction; and leukocyte endothelial cell interactions. Positions include stipend, health insurance, and travel. Details of the faculty interests, a description of the program, and application forms may be found on the World Wide Web at website: http://www.med.virginia.edu/inter-dis/cvrc. Interested and competitive applicants may also apply directly to: Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 10011, Health Sciences Center, University of Virginia, Charlottesville, VA 22906-0011. These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS MOLECULAR NUTRITION UNIVERSITY OF CHICAGO

Two positions are available immediately to study molecular regulation of apoB mRNA editing. Projects include characterization of the apoB mRNA editing enzyme (Science 260:1816; JBC 270:12768, 270:14762), targeted expression in liver cells (JBC 269:5932) and gain/loss of function (JBC 271:9887) in gene targeted mice. Solid background in molecular biology/genetics required. Preference will be given to candidates eligible for training grant support. Send curriculum vitae plus three references to: Dr. Nicholas O. Davidson, Chairman, Committee on Nutrition, University of Chicago, MC 4076, 5841 South Maryland Avenue, Chicago, IL 60637. FAX: 773-834-2291. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Neural cell adhesion molecules. Involvement of neural cell adhesion molecules (CAMs) in activity-dependent development and plasticity of the nervous system is being studied in primary cultures of mouse neurons. A Postdoctoral position is available for a candidate with experience in analysis of expression and posttranslational regulation of CAMs using molecular biological and biochemical techniques. A background in signal transduction and/or transcription factors is desired. Applicants must have a Ph.D. or M.D. and less than five years of postdoctoral experience. Send curriculum vitae and three references no later than March 31,1998, to: R. Douglas Fields, National Institutes of Health, NICHD, Building 49, Room 5A38, Bethesda, MD 20892. FAX: 301-496-9630; e-mail: fields@helix.nih.gov.

POSTDOCTORAL POSITION immediately available to study serine proteases and serine protease inhibitors. Research focuses on the structure and enzymology of human chymase and the mechanism of chymase interaction with inhibitors of the serpin family. Recombinant systems to produce chymase and serpins make detailed physical and mutational studies possible. Position is supported by an NIH training grant. Candidates must be U.S. citizens or holders of an Immigration Visa to the United States. Please send curriculum vitae and names of references to: Dr. Norman Schechter, Department of Dermatology, University of Pennsylvania, Clinical Research Building, 415 Curie Boulevard, Philadelphia, PA 19104-6142. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available for studies on structure-function relationships in the cytochrome P450 superfamily of enzymes. Focus on designing P450s with novel functions and developing predictive methodology for P450 reactions using chimeras, site-directed mutants, isotope effects, crystallography, analytical chemistry, and computational modeling. Experience in at least one of these areas is preferred. Contact: Jeffrey P. Jones, Ph.D., Box 711, Department of Pharmacology, University of Rochester, Rochester, NY 14642-0001. Email: jpj@cyp.medicine.rochester.edu. University of Rochester is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

A Postdoctoral position is available to use mouse knockout/transgenic approaches to study the role of chromosome structure and segregation in the development of cancer. The project is an ongoing collaboration between the laboratory of **Dr. David Pellman**, at the Dana-Farber Cancer Institute, and the laboratory of **Dr. Stuart Orkin**, at the Howard Hughes Medical Institute at the Children's Hospital. Experience in molecular biology is required and experience with gene targeting or the construction of transgenic mice is preferred. Please send a curriculum vitae and the names of three references to: **Dr. David Pellman**, The Dana-Farber Cancer Institute, **D1620**, 44 Binney Street, Boston, MA 02115. Email: david_pellman@dfci.harvard.edu; FAX: 617-632-2085. We are an Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular biology available immediately to investigate the molecular structure and expression of novel prohormone processing proteases. These specific proteases are involved in the cellular production of peptide hormones and neurotransmitters. Studies involve multiple approaches in molecular cloning, and expression of recombinant proteases and protease inhibitors in E. ωl i and mammalian cells. Experience in molecular biology is required. Expertise in cell biology and biochemistry is desirable. The Ph.D. degree in molecular biology, biochemistry, or related discipline is required. Please send curriculum vitae, reprints, and names of three references to: Dr. Vivian Hook, Department of Medicine, University of California, San Diego, 9500 Gilman Drive #0822, La Jolla, CA 92093-0822.

POSTDOCTORAL RESEARCH ASSOCIATE position in lung toxicology/cell biology available immediately for recent Ph.D. graduate to study events involved in oxidant-mediated damage and repair at the cellular and subcellular level. Research will involve the study of cell type sensitivity to endogenous and exogenous oxidants, with an emphasis on mitochondrial function and repair of mitochondrial and genomic DNA. Candidates should have experience with standard molecular and cell biology techniques. Please send curriculum vitae and a brief statement of research interests to: Dr. Bonita Taffe, 401 Life Sciences, Wayne State University, Detroit, MI 48202. Wayne State University is an Equal Opportunity/Affimative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL POSITION LIPID METABOLISM

Postdoctoral Research position available immediately to work in a large research group to study lipid and carbohydrate metabolism in healthy and obese individuals. Previous experience in performing clinical research studies is not necessary. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or FAX your curriculum vitae, names of three references, and a brief description of your research experience to: Dr. Labros S. Sidossis, Metabolism Unit, SBI, University of Texas Medical Branch, 815 Market Street, Galveston, TX 77550. FAX: 409-770-6626. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP. Ph.D. from U.S. university to participate in research on the application of fusion toxin therapy of resistant malignancies. Individual will perform human normal and leukemic semi-solid progenitor colony assays, cytotoxicity assays, immunoblots, flow cytometry assays, Scatchard binding studies, CD34+ selections, routine tissue culture, DNA and protein techniques for recombinant bacterial fusion toxins, ELISAs, and immunohistochemistry. Contact: E. P. Tagge, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-3861; FAX: 803-792-3858; e-mail: taggeep@musc.edu.

POSTDOCTORAL RESEARCH FELLOWSHIP position for Ph.D. or M.D. Lab works on transgenic-mouse models of hypertriglyceridemia and apolipoprotein gene expression. Experience in lipoprotein metabolism research and molecular genetic techniques desirable. Starting date and salary to be negotiated. Apply to: Neil S. Shachter, M.D., Columbia University, BB 908, 630 West 168th Street, New York, NY 10032-3702. FAX: 212-305-5384. We take Affirmative Action toward Equal Employment Opportunity.

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Director, Department Pharmacokinetics and Metabolism

The Institut de Recherche Jouveinal (IRJ) is a tharmaceutical research centre located in the southern region of Paris, France. IRJ has recently been acquired by Parke-Davis Pharmaceutical Research, a division of the Warner-Lambert Company. In our research centres in the United States, the United Kingdom and France, scientists are working on a broad range of mechanistic approaches to discover and develop new drugs for important human diseases.

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In the context of the expansion of our programmes, the selected candidate will be required to manage projects in interaction with our Institute's research teams, and also in close collaboration with our research centres in Ann Arbor (USA) and Cambridge (UK).

Applicants should have extensive experience and recognition in pharmacokinetics and metabolism, particulary in discovery and exploratory development, ideally acquired in international industry. They will have proven their ability to manage and motivate a team. They will possess excellent communication and negotiation skills and maintain a close relationship with other disciplines and clients. A working knowledge of French would be a further advantage.

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For consideration, please write or fax complete CV (resume & references) to Mrs Michèle Dorey, Institut de Recherche Jouveinal, 3-9 rue de la Loge, 94265 Fresnes cedex France, Fax: (33.1) 40.96.75.97.

PARKE-DAVIS PHARMACEUTICAL RESEARCH





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Admission to the seminar will be limited and will be decided upon by the scientific committee. Deadline for applications and for submission of the exposé: 15 April 1998.

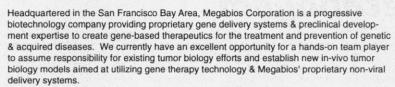
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The Joint Institute for Food Safety and Applied Nutrition (JIFSAN), a joint endeavor of the Food and Drug Administration and the University of Maryland, will convene a workshop in June 1998 concerning transmissible spongiform encephalopathies (TSEs) 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. Collaborators and sponsors will include the Virginia-Maryland Regional College of Veterinary Medicine and representatives from international, academic, manufacturing, consumer, and governmental organizations. Workshop proceedings will be made available. The workshop will be held on June 8-9, 1998, at the University Conference Center in College Park, Maryland. Additional information and conference updates can be obtained through our web page http://www.life.umd.edu/ jifsan or by contacting Dr. Lucinda Jack at 301-405-0316 or by sending an e-mail to jifsan @life.umd.edu.

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POSTDOCTORAL POSITIONS IN MOTOR CONTROL AND MOVEMENT DISORDERS University of Minnesota

Postdoctoral positions are available in laboratories at the University of Minnesota, Minneapolis/St. Paul campus to study motor control and movement disorders. The specialty areas available are listed below by faculty member.

Dr. John Anderson: control of posture and balance in Parkinson's disease. Dr. James Ashe: neural control of movement; recording of single cells from cortex. Dr. Timothy Ebner: neurophysiology of the cerebellum and motor cortex. Dr. Martha Flanders: neural mechanisms of motor motor pattern generation. Dr. Apostolos Georgopoulos: neurophysiology of motor control. Dr. Walter Low: neural transplantation in neurodegenerative disorders. Dr. Robert Maxwell: deep brain stimulation for the treatment of movement disorders. Dr. Laura Ramum: neurogenetics of movement disorders and neurodegenerative diseases. Dr. John Soechting: motor control neurophysiology. Dr. Nancy Solomon: control of speech and articulation in Parkinson's disease. Dr. Paul Tuite: clinical trials of therapies for Parkinson's disease and related disorders.

Interested applicants should send a curriculum vitae by March 15, 1998, to: Joan Bailey, Department of Neurosurgery, University of Minnesota, 2001 Sixth Street S.E., Minneapolis, MN 55455.

POSTDOCTORAL POSITIONS are available immediately to participate in a large-team structural and functional genomics program in plant genetics. Projects include ESTs, microarrays, Bac-end sequencing, and contig building. Successful candidates should be trained in genetics or biochemistry and have knowledge of principles of plant breeding. Preference will be given to candidates skilled in preparation of cDNA libraries or experienced in robotics and microarray technologies. Salaries are competitive and will vary by skill and experience of the candidate.

Interested persons should contact:

Dr. Randy C. Shoemaker USDA-ARS Department of Agronomy Iowa State University Ames, IA 50011 Telephone: 515-294-6233 FAX: 515-294-2299 E-mail: rcsshoe@iastate.edu

POSTDOCTORAL POSITION HUMAN EMBRYONIC STEM CELLS JOHNS HOPKINS MEDICINE

A position is available to work with a team deriving embryonic stem cells and lineage-restricted stem cells from primordial germ cells. Experience with mammalian embryonic stem cell culture is preferred. Experience in molecular biology/biochemistry would be a strong asset. The position offers stable funding and a competitive salary.

Send curriculum vitae to: Dr. John Gearhart, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Gynecology and Obstetrics, 255 Houck, Baltimore, MD 21287. An Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL POSITION

Our laboratory has cloned the gene that encodes the diphtheria toxin receptor and shown that it is identical to the transmembrane form of a precursor to a growth factor, HB-EGF. The position, available immediately, entails preparation and utilization of transgenic mice bearing the human diphtheria toxin receptor/HB-EGF precursor. Candidate should have training in molecular biology, immunology, or a related field. Send curriculum vitae and names of three references to: Dr. Leon Eidels, Department of Microbiology, The University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75235-9048. FAX: 214-648-5906. UT Southwestern is an Equal Opportunity Institution.

STAFF ASSOCIATE and/or POSTDOCTORAL RESEARCH FELLOW sought to study signaling pathways in lymphocytes. Minimum three years of experience in molecular biology and biochemistry required. Send curriculum vitae to: Dr. Alessandra Pernis, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-4478; e-mail: abpl@columbia.edu.

POSITIONS OPEN

SCHOOL OF PUBLIC HEALTH UNIVERSITY OF CALIFORNIA, BERKELEY

POSTDOCTORAL RESEARCH appointments are occasionally available with individual faculty members in the School of Public Health of the University of California at Berkeley. Appointments are normally made for one year, with the possibility of renewal for a second year. Highly qualified persons may apply for positions to be assumed at the time of, or shortly after, the completion of doctoral studies. A list of current Berkeley School of Public Health faculty and their areas of research interests is available on the World Wide Web. To view this list, access the School of Public Health homepage at website: http://garnet.berkeley.edu/~sph; refer to the Directory and then to Faculty Profiles for a listing of the School of Public Health faculty. Arrangements should be made for one confidential letter of reference to be sent by the person best able to judge the applicant's research achievements and potential. Applications should include a résumé: a brief statement of research experience, interests, and goals; and the names and the addresses of two additional references. The application should be sent directly to the faculty member with whom the applicant prefers to be associated at the following address:

School of Public Health University of California c/o 140 Warren Hall Berkeley, CA 94720

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NIMH POSTDOCTORAL POSITION NEUROSCIENCE

Applications are invited for a Postdoctoral Fellowship available immediately to an individual interested in applying a molecular biology approach to the dissection of the mammalian biological clock. This position requires a Ph.D. in biochemistry, molecular biology, and/or neurobiology. Candidates with good publication records will be given preference. Prior experience in one or more techniques related to differential expression and/or protein interaction screening, transgene generation, analysis of signal transduction cascades, and gene expression in situ, tissue or organ culture is essential. Please send curriculum vitae, a brief statement of research interests, and the names and e-mail addresses of three references to: Ruben Baler, Ph.D., Laboratory of Cellular and Molecular Regulation, Building 36, 2A-10, NIH, Bethesda, MD 20892-4068. FAX: 301-496-4103; e-mail: abri@codon.nih.gov. NIH is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular oncology to study the expression and function of paired domain transcription factors in cancer. A current focus is the chimeric PAX3-FKHR and PAX7-FKHR proteins generated by chromosomal translocations in rhabdomyosarcoma. Experience in molecular biology is required. Send curriculum vitae and names of three references to: Dr. Frederic G. Barr, Department of Pathology, University of Pennsylvania, 36th Street and Hamilton Walk, Philadelphia, PA 19104-6082. FAX: 215-898-4227. Equal Opportunity Employer/Affirmative Action.

FELLOWSHIP

Advanced AIDS CLINICAL RESEARCH FELLOWSHIP. Beginning July 1998, two- to three-year privately funded combined Clincal and Laboratory Research Training Fellowships at the Center for AIDS Research at Stanford University. The bench research program will have a focus on viral therapy and/or host defenses against HIV infection, whereas the clinical work will be on antiviral and/or immune therapy. M.D. trainees will already be trained in clinical infectious diseases whereas Ph.D. trainees should already have experience in relevant HIV research. The Center is affiliated with the NIAID AIDS Clinical Trials Group. Interested applicants contact: Thomas C. Merigan, Jr., M.D., Director, Center for AIDS Research at Stanford, S-156, Stanford Medical Center, Stanford, CA 94305. Stanford University is an Equal Opportunity Employer and welcomes applications from women and minorities.

Research and/or clinical preceptors in the program include: Mark Holodniy, HIV virology; Dennis Israelski, clinical trials; David Katzenstein, HIV disease and therapy; Thomas C. Merigan, HIV disease and therapy; Thomas C. Merigan, HIV disease and therapy; Robert Shafer, HIV virology and informatics; and Andrew Zolopa, Clinical trials and epidemiology.

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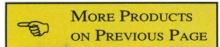
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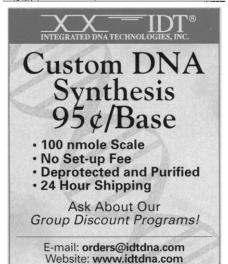
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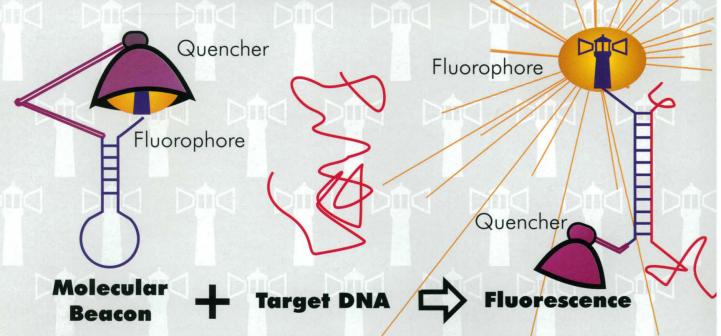
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- 1. S. Tyagi and F. R. Kramer. Nature Biotechnology. 14, 303 (1996).
- 2. S. Tyagi, D. P. Bratu, F. R. Kramer. Nature Biotechnology. 16, 49 (1998).

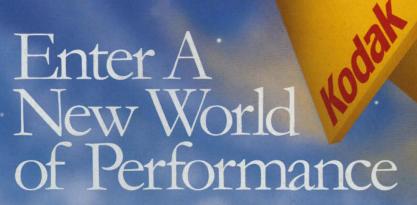
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