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1. Standard e3 Poor's Insurance Rating Analysis, 1996; Lipper Analytical Services, Inc., Lipper-Directors' Analytical Data, 1996 (Quarterly).

2. Source: Morningstar, Variable Annuities/Life 11/5/96. 3. Of the 3,852 variable annuity funds tracked by Morningstar, the average fund had total fees combining annual expenses of 0.82% plus an insurance expense of 1.27%. Source: Morningstar, Inc., for periods ending April 30, 1997. 4. Standard e3 Poor's Insurance Rating Analysis, 1996.

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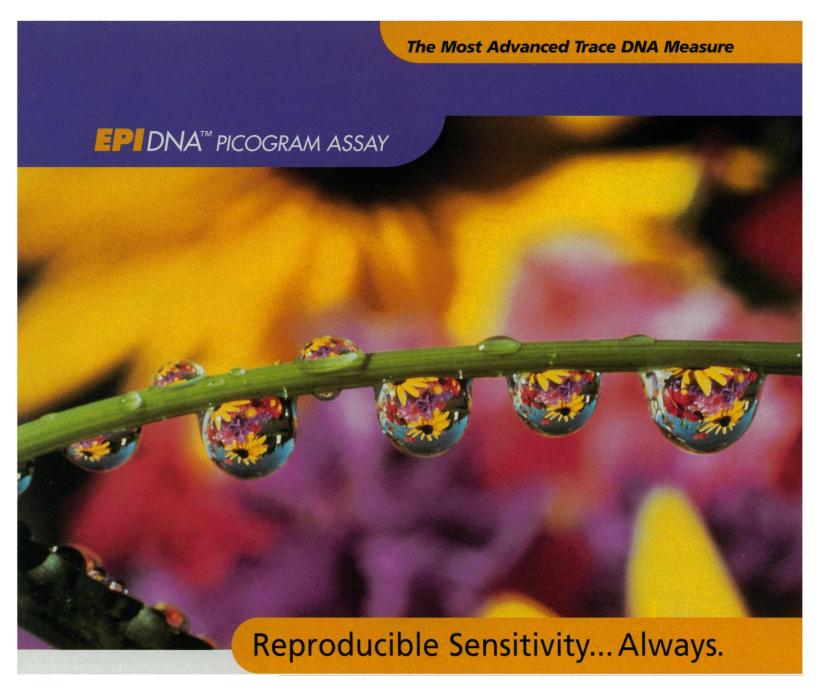
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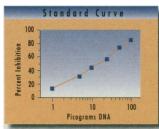
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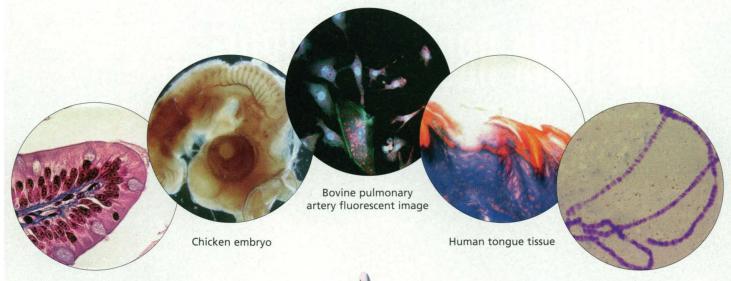
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be monitored during a run without removing the gel. Advanced Biotechnologies. For information call 01372 723456 or circle 142 on the reader service card.

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(continued on page 1127)



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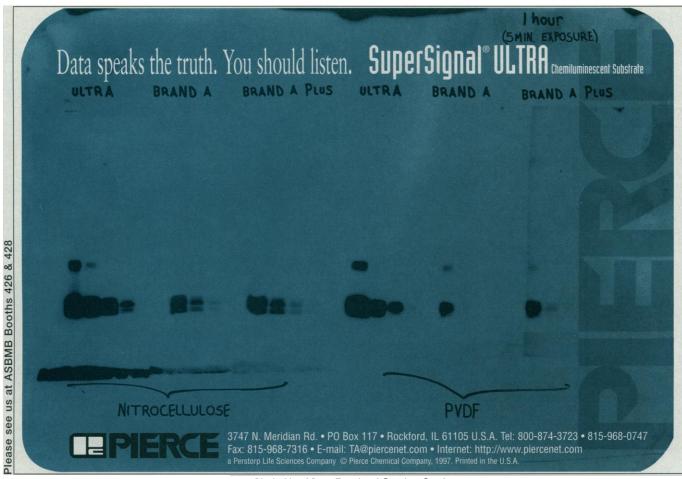
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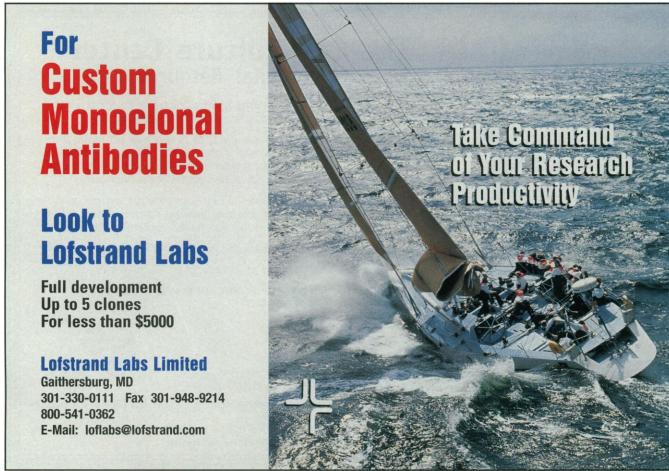
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(continued from page 1125)

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Reversed Phase Columns

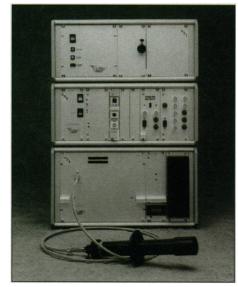
HYDROCELL Reversed Phase Columns are for analysis and purification of proteins, polynucleotides, and oligonucleotides. The highly cross-linked polystyrene-divinylbenzene spherical beads are extremely stable and permit use of mobile phase from pH 1 to 14. Reversed phase chromatography is based on the discrimination by hydrophobicity of biomolecules and is a complementary technique to ion exchange chromatography. BioChrom Labs. For information call 812-234-2558 or circle 146 on the reader service card.

Transcription and Translation Systems

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Fluorescence Illumination System

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Polychrome can jump to any wavelength between 260 nm and 680 nm in less than 3 ms. The module design allows components to be easily added for complete imaging and photometric systems and offers uncaging flashes and other accessories. Applied Scientific Instrumentation. For information call 541-485-2284 or circle 148 on the reader service card.

Literature

Tubing Selection Guide for Pumping Viscous Fluids is a chart that helps you choose the proper tubing size and motor rpm based on fluid viscosity and flow rate. Cole Parmer. For information call 800-323-4340 or circle 149 on the reader service card.

Techniques in Apoptosis: A User's Guide is a 300-page spiral-bound reference book describing the most up-to-date procedures for studying the phenomenon of programmed cell death. It includes more than a dozen methodologies and procedures. Each chapter begins with a general overview of the methodology and goes on to provide detailed, experimental protocols in a step-by-step format. Sigma Chemical. For information call 800-521-8956 or circle 150 on the reader service card.

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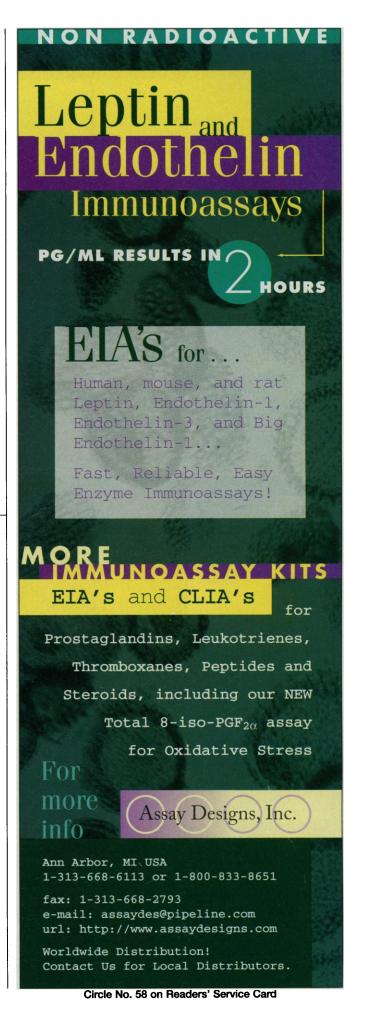
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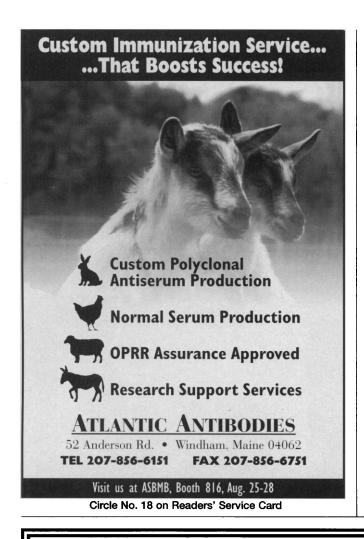
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The Department of Physiology at Loyola University Chicago, Stritch School of Medicine is seeking applicants for tenure-track positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants must have a Ph.D., M.D., or equivalent and are expected to have the ability to establish a strong research program. Senior applicants should have a strong record of research productivity and extramural support. Applicants whose research complements and extends existing research strengths in areas of cellular and molecular aspects of Ca regulation and signal transduction in the cardiovascular system are especially encouraged (see website: www.meddean.luc.edu/lumen/Dept Webs/physio/index.html). Send letter, curriculum vitae including research plans, and names of three references to: Donald M. Bers, Ph.D., Chair, Department of Physiology, Loyola University Chicago, 2160 First Avenue, Maywood, IL 60153. Loyola is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY/ADMINISTRATIVE POSITION IN CONSERVATION

The Department of Botany, College of Natural Sciences invites applications for a full-time, nine-month, tenure-track position available from January 1, 1998, pending clearance and availability of funds. The department seeks a scientist at the ASSOCIATE or FULL PROFESSOR level who will expand conservation and resource management research in Hawaii and the Pacific. Academic duties (50 percent) include teaching a minimum of one course per year in area of specialty, establishing a research program, and training graduate students. Administrative duties (50 percent) include administering a \$5 million per year extramurally funded program based on cooperative agreements established between the University and its Federal, State, and private partners via the Cooperative Studies Unit of USGS-BRD. The appointment will include two months of overload for administrative duties during the summer relative to the management of the cooperative agreements. Minimum qualifications include a Ph.D. in botany or other appropriate field of biological science, demonstrated teaching ability, demonstrated scholarly achievements, and experience in negotiating and administering Federal/State contracts and grants. Desirable qualifications include academic leadership; experience with conservation studies, resource and alien species management, and tropical and ecosystemlevel ecology; research focus in botanical science; ability to interface effectively across disciplines; and sensitivity to needs of applied research efforts. Salary is commensurate with qualifications and experience. Additional information about the Botany department and CPSU activities can be found at website: http://www.botany.hawaii. edu and for the Pacific Island Ecosystems Research Center and its Cooperative Study Unit at website: http:// www.nbs.gov/pub_aff/centers.html. Submit curriculum vitae, statement of research interests, documentation of minimal and desirable qualifications, and names and contact information for at least three referees, including mail, e-mail, FAX, and telephone numbers to: Chairperson, Department of Botany, 3190 Maile Way, University of Hawaii at Manoa, Honolulu, HI 96822-2279. Deadline for application is September 26, 1997. Inquiries may be made to e-mail: botany@hawaii.edu or FAX: 808-956-3923. The University of Hawaii is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are strongly encouraged to apply.

DARTMOUTH MEDICAL SCHOOL DEPARTMENT OF PATHOLOGY

The Department of Pathology at Dartmouth Medical School is seeking an individual for a tenure-track position. The search will concentrate on candidates holding M.D. or M.D./Ph.D. degrees who have completed pathology residency training. Postdoctoral research training in a recognized center is strongly desired. An investigative focus in immunology, immunopathology, immunogenetics, autoimmunity, adhesion, or co-stimulatory molecular biology is desired. The candidate should have a record of independent productivity. It is envisioned that approximately 75% of the individual's time will be devoted to basic research. Medical student teaching, administrative and clinical assignments can be arranged to accommodate the candidate's requirements. The new faculty member will be expected to join the appropriate graduate training program, and direct an active research laboratory with the capacity to train Ph.D. and Postdoctoral Fellows.

Please send curriculum vitae and the names of three referees to:

William F. Hickey, M.D. Professor and Chairman, Department of Pathology Dartmouth Medical School-D.H.M.C.

Lebanon, NH 03756

Dartmouth College is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITIONS IN ORAL BIOLOGY. Positions beginning July 1, 1998 in pharmacology/toxicology and biochemistry/cell biology. Ph.D. (Ph.D./D.M.D. or equivalent preferred) and demonstrated teaching and research experience required. Duties include teaching dental students, dental residents, and graduate students in an integrated oral biology curriculum, and conducting independent research. Rank and salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. Gretchen B. Caughman, Department of Oral Biology, AD1424, School of Dentistry, Medical College of Georgia, Augusta, GA 30912-1126 by February 1, 1998. MCG is an Equal Opportunity/Affirmative Action Employer.







TENURE-TRACK FACULTY AND POSTDOCTORAL POSITIONS IN MOLECULAR AND CELL BIOLOGY OF HUMAN NERVOUS SYSTEM DISEASE

The Nathan Kline Institute (NKI) and the Department of Psychiatry at New York University Medical School announce the establishment of a new program for molecular neuroscience and clinical research on the causes and treatment of Alzheimer's Disease (AD) and related dementias. NKI, located on a 600-acre campus 15 miles north of Manhattan, is in the final stages of completing a major expansion which includes newly constructed facilities for basic research, neuroimaging, clinical investigations, therapeutic trials, and services research.

Research interests of newly-recruited faculty and other NKI investigators include: R. Nixon - Regulation of protease systems; molecular control of cytoskeletal protein dynamics; S. Gandy - Vesicle biology of amyloid precursor protein (APP) and presenilins; M. Ehrlich - Regulation of neuronal differentiation; transgenic models of brain dysfunction; A. Cataldo - Regulation of endocytosis and lysosomal function; P. Mathews - Presenilin trafficking and function; V. Sapirstein - Membrane dynamics and APP metabolism; A. Lajtha - Protease function in aging and neurodegenerative disease; N. Marks - APP metabolism and apoptosis; P. Mohan - Diagnostic markers of early AD; N. Pomara - Nicotinic/muscarinic mechanisms in cognition; M. J. de Leon, A. Convit - Brain imaging in normal aging and AD.

Selected Recent Publications:

Seeger M., Nordstedt C., Petanceska S., Kovacs D., Gouras G., Hahne S., Fraser P., Levesque L., Czernik A., St. George-Hyslop P., Sisodia S., Thinakaran G., Tanzi R., Greengard P., and Gandy S. (1997) Evidence for phosphorylation and oligomeric assembly of presenilin-1. *Proc. Natl. Acad. Sci. U.S.A.* **94**:5090–5094.

Xu H., Sweeney D., Wang R., Thinakaran G., Lo A. C. Y., Sisodia S., Greengard P., and Gandy S. (1997) Generation of Alzheimer's beta-amyloid protein in the trans-Golgi network in the apparent absence of vesicle formation. *Proc. Natl. Acad. Sci. U.S.A.* **94**:3748–3752.

Ivkovic S., Polonskaia O., Farinas I., Ehrlich M.E. (1997) Brain-derived neurotrophic factor regulates maturation of the DARPP-32 phenotype in striatal medium spiny neurons: Studies *in vivo* and *in vitro*. *Neuroscience* **79**:509–517.

Cataldo A. M., Barnett J. L., Pieroni C., and Nixon R. A. (1997) Increased neuronal endocytosis and protease delivery to early endosomes in sporadic Alzheimer's Disease: Neuropathologic evidence for a mechanism of increased β -amyloidogenesis. *J. Neurosci.* 17:6142–6151.

Beggah A. T., Mathews P. M., Beguin P., and Geering K. (1996) Degradation and endoplasmic reticulum retention of unassembled α - and β -subunits of Na, K ATPase correlate with interaction of BiP. *J. Biol. Chem.* **271**:20895–20902.

Berg M. J., Durrie R., Sapirstein V. S., and Marks N. Composition of white matter bovine brain coated vesicles: evidence that several components influence beta-amyloid peptide to form oligomers and aggregates in vitro. Brain Res. (1997) 752:72–80.

JUNIOR FACULTY POSITIONS Applications are invited for tenure-track junior faculty positions with a dual appointment at NYU Medical Center and the NKI. The successful candidate(s) will be interested in collaborative projects with other faculty in a multidisciplinary setting in vestigating the molecular pathogenesis of AD and the development of novel therapeutics. Candidates with a Ph.D., M.D., or both, should have a strong background and demonstrated accomplishment in approaching cellular function using molecular genetic techniques. Applications are especially encouraged from candidates with interests in vesicular trafficking, protein targeting, and cell biology of human pathogenic mutations.

POSTDOCTORAL POSITIONS The Program provides a rich environment for postdoctoral training. Support is provided by NIH grants and the New York State Office of Mental Health. Several openings currently exist for projects focusing on: (1) cell biology of endocytosis; (2) protease expression/trafficking and amyloidogenesis; (3) molecular biology of striatal development.

CORPORATE INTERACTIONS Program faculty are engaged in a variety of relationships with the biotechnology and pharmaceutical industry. Inquiries for specific details from companies or from potential applicants in companies are welcomed.

Applicants should send curriculum vitae, a list of 3 references, and a statement of interests to Ralph Nixon, Ph.D., M.D., Nathan Kline Institute, Dementia Research Program, 140 Old Orangeburg Road, Orangeburg, NY 10962. EOE/AA.

PHARMACOLOGIST/ PHYSIOLOGIST

Merck Research Laboratories in West Point, Pennsylvania, a world leader in biological and pharmaceutical research, has an immediate opening for a highly qualified Pharmacologist/Physiologist in the Department of Cardiovascular Pharmacology.

The successful candidate will be responsible for *in vivo* evaluation of compounds, as well as providing scientific direction for new and established drug discovery programs.

A Ph.D., M.D. degree or equivalent in Pharmacology or Physiology with a minimum of two years of post-doctorate experience in cardiovascular, renal or related research, and a strong background in integrated physiology and *in vivo* pharmacological models is required. A strong publication record combined with excellent written and oral communication skills are also necessary. The ability to direct and lead laboratory scientists and participate in multidisciplinary project teams is essential.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send *curriculum vitae* with cover letter and the names of three references to: Ad #B-114, MRL Human Resources, WP42-2, Merck Research Laboratories, P. O. Box 4, West Point, PA 19486. Only candidates considered for interviews will receive responses. EOE, M/F/D/V.

To learn more about Merck, we invite you to visit our website at **www.merck.com**.





METABOLEX, INC., a San Francisco Bay area biotech company dedicated to a better understanding of diabetes and the development of small molecule drug candidates to treat diabetes, currently has several openings for talented scientists to join our team. Candidates should have a Ph.D. or M.D. with at least 2 years of postgraduate experience using the technologies of cell biology, biochemistry, and molecular biology.

Islet Development/Function Group

Scientists will direct research to identify and evaluate key components in pancreatic islet development and glucose-stimulated insulin secretion. These efforts will be integrated into our existing state-of-the-art genomics program for novel target identification. Research training in islet cell physiology and stimulus-secretion coupling desirable.

Metabolex offers competitive salaries and benefits. More detailed information about research and scientists at Metabolex is available upon request. Applicants should send a curriculum vitae to: Metabolex Inc., Director of Human Resources, 3876 Bay Center Place, Hayward CA, 94545 or e-mail to science@metabolex.com.

Metabolex is an equal opportunity employer.

As an emerging force in cancer research. Lilly's Oncology division has become increasingly important within the corporate structure. As we blend science with technology, and an innovative spirit with the human spirit we commit ourselves to the discovery, development, and commercialization of innovative drugs to treat cancer. With research programs in signal transduction, drug resistance, cell cycle control, gene therapy, and prostate cancer, we offer a stimulating and productive environ-THE SCIENCE OF ment for the discovery of innovative drugs that will advance the treatment of cancer patients worldwide. We are compelled by a sense of urgency, because we know that in the lives of waiting patients, every moment matters. Join us today. Ph.D and BS/MS **Biochemists** THE SPIRIT OF We are seeking multiple candidates with proven experience in biochemistry. The applicants should have broad expertise in one or more of the following areas: protein purification, enzyme kinetics and characterization of enzyme activity, development of assays for high volume screening, signal transduction pathways, and development of drug candidates. Expectations ınnovatı also include proficiency in using software applications, maintaining an awareness of current scientfic literature and technical writing ability for publications, reports, and presentations. A successful Ph.D. candidate will have a minmum of 3 years postdoctoral experience. Knowledge of molecular biology techniques would be desirable Ph.D. and BS/MS Molecular/Cellular Biologists We are seeking multiple individuals with proven experience in cell biology, cellular pharmacology, signal transduction, gene targeting, and tumor model technologies. The candidates should have a broad experience in various aspects of mammalian cell biology and the use of molecular and cellular biology techniques to explore and evaluate potential drug targets. Successful candidates will also perform research in multidisciplinary teams to develop cell-based and animal-based models for evaluating new drugs and drug targets. Experience in using software applications, DMA transcription, RNA splicing and DNA genomics is desireable. Candidates for Ph.D. positions should have a degree in the Biological Sciences with a minimum of 3 years postdoctoral experience. Ph.D. and BS/MS
Pharmacologists The candidates should have broad experience in various aspects of cell-based assay development and drug evaluation and/or animal-based tumor modeling and drug evaluation. Specific skills would include in vitro cytotoxicty, membrane transport, cell-based techniques, programming and operation of various automated assay equipment, proficiency in using software applications, radioactive enzyme assays, data collection and analysis, and preparation of reports, presentations and publications. Our in vivo positions require expertise in the molecular characterization of human and murine tumors for the expression of key drug targets using immunohistochemistry, histology, and flow cytometry. Experience in the formulation of test compounds for administration to experimental animals is also necessary. Knowledge of the fundamentals of chemistry, molecular, and cellular biology is desirable. Candidates for Ph.D. research scientist must have 2-5 years experience in cancer cell biology. Experience in signal transduction and development of cancer therapeutics is desired. Postdoctoral Fellows We are looking for creative individuals in a variety of areas to explore mechanistic aspects of new molecular targets associated with cancer. A Ph.D. in Molecular Biology, Cellular Biology, Biochemistry, Pharmacology or Medicinal Chemistry is required. Positions are available for projects in signal transduction, cell cycle control, drug resistance, angiogenesis, apoptosis, and evaluation of drug combinations in vitro and in vivo. Lilly Postdoctoral Fellows gain sound practical experience and focused training that significantly expands their scientific knowledge and abilities in drug discovery and development. We provide the salary, compensation and advancement opportunities you would expect from an industry leader. For confidential consideration, please send your resume and cover letter indicating position of interest to: Eli Lilly and Company Researd **Lilly Corporate Center** Indianapolis, IN 4628 We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace. For other opportunities at Eli Lilly and Company, please access our Job Bank at: http://www.lilly.com Eli Lilly and Company Knowledge Is Powerful Medicine



St. Jude Children's Research Hospital

ALSAC . Danny Thomas, Founder

POSTDOCTORAL FELLOWSHIP FOR **MINORITY CANDIDATES**

St. Jude Children's Research Hospital, a premier research center for biomedical research, offers a Minority Postdoctoral Fellowship to American citizens or permanent residents as dictated by NIH. The Fellowship was established by the American Lebanese Syrian Associated Charities and St. Jude Children's Research Hospital's Board of Governors. Recent M.D., Ph.D., D.V.M., or Pharm.D. fellows are eligible to train with leading scientists and several basic biomedical research laboratories which include biochemistry, biostatistics, developmental neurobiology, diagnostic imaging, experimental oncology, experimental hematology, genetics, infectious diseases, immunology, pathology/molecular biology, pharmaceutical sciences, molecular pharmacology, radiation oncology, structural biology, surgery, tumor cell biology and virology/molecular biology. Please visit our web site at http://www.stjude.org.

Fellowship awards are given for up to three years and are based on merit, recommendation and promise of a productive career in biomedical research. Stipends are highly competitive.

Minority applicants should provide a curriculum vitae, a brief description of their research interests, and three letters of reference. Please send to:

> Office of Academic Programs **Minority Postdoctoral Fellowship** St. Jude Children's Research Hospital 332 N. Lauderdale Street Memphis, TN 38105-2794 • U.S.A.

> > Tel: (901) 495-2750 Fax: (901) 525-2720

Deadline for receipt of application is September 30,

An Equal Employment/Affirmative Action Employer.



SR. RESEARCH ASSOCIATE s a leading research and development company, Cell Genesys is genetically engineering the human immune system to create innovative therapies for serious diseases. We are currently seeking a Sr. Research Associate.

Collaborating with other members of the project team, you will design and conduct chimeric immune receptors for optimization of T cell function. The project may also include studies to determine the relationship between structure and function for these chimeric receptors.

A BS/MS degree in molecular biology, biochemistry, or related field, plus working experience in an industry or academic research environment are essential. The candidate must have 8-10 years' experience (with a BS degree) or 6+ years' experience (with an MS degree) in molecular biology, including PCR and Southern/Northern gene construction. Experience with tissue culture, Western blotting, immunoprecipitation, and flow cytometry would be helpful. Previous team work experience is highly desirable.

Cell Genesys is dedicated to developing important human healthcare products in gene therapy. We are equally committed to those who make up our team and provide our employees with excellent salaries and a full benefits package. To learn more, please forward your CV/resume/written inquiries to: CELL GENESYS, INC., Attention: Human Resources, 322 Lakeside Drive, Foster City, CA 94404. We are an equal opportunity employer.



CELL GENESYS

Medicine At The Core Of Life

Few biotechnology companies can offer you the promise and excitement of Gilead Sciences. We are a leader in the discovery and development of a new class of antiviral therapeutics that may provide powerful new treatments for CMV retinitis, HIV, influenza and other viruses. Here, you'll be a part of a company that takes pride in its achievements, knowing that patients may benefit from the products we create. Come join us in the following exciting opportunity.

RESEARCH SCIENTIST DEPARTMENT OF CELL BIOLOGY

The successful candidate will participate in the discovery and development of novel antisense therapeutics. Specific responsibilities include developing in vivo and in vitro models to identify molecular targets in cancer and inflammation. Direct experience with animal models of human disease and a strong background in molecular and cellular biology are essential. Requirements include a Ph.D. plus 2-3 years of postdoctoral experience in the areas of tumor biology, immunology, and/or

At Gilead, we are committed to developing important treatments for a wide range of human diseases. As you will discover, we are as committed to opportunity as we are to scientific achievement. Interested candidates should send a resume to: Human Resources, Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404, fax (650) 573-4800, www.gilead.com. We are proud to be an equal opportunity employer.





Agricultural Biotechnology

Novartis, recently formed by the merger of Ciba-Geigy and Sandoz, is a global leader in the application of biotechnology to agriculture. The Novartis Seeds Biotechnology Research Unit (Research Triangle Park, North Carolina) is developing novel transgenic solutions to enhance agronomic performance of major crops worldwide. Successful candidates will join an interdisciplinary group of highly motivated scientists devoted to maintaining leadership in the area of agricultural biotechnology. We currently seek outstanding candidates for the following positions:

In our Disease Control Group:

RESEARCH ENTOMOLOGIST (Pos. No. 713)

The successful candidate works with a multidisciplinary research team focused on the genetic improvement of crop plants. The position requires an adaptable, innovative person with experience in insect and nematode bioassay design and performance, data analysis, communication skills, and ability to work well in a team based research environment. Candidate also will be responsible for maintaining insect colonies for exploring modes of resistance to insecticidal proteins. Successful candidates will have a M.S. degree or a B.S./B.A. degree with 2-3 years relevant experience in Entomology with an emphasis in insect physiology or insect pathology. Experience with a diverse number of insect orders is desirable. Additional experience in microbiology and molecular techniques would be a plus.

MOLECULAR BIOLOGIST (Pos. No. 714)

The successful candidate is expected to consolidate a research program aimed at the characterization of novel insecticidal genes and proteins, with special emphasis in the area of Vegetative Insecticidal Proteins as well as lead efforts towards the elucidation of the mode of action of novel insecticidal proteins. An in-depth knowledge of molecular biology techniques with experience in the cloning and characterization of genes is required. A proven record of interest and accomplishment in the area of insect control, insect molecular biology or related field would be a plus. This position will have both laboratory and supervisory activities. Successful candidates will have a Ph.D. and 3+ years of post-graduate experience in molecular biology, biochemistry, cell biology or related biological science.

MOLECULAR BIOLOGIST/BIOCHEMIST (Pos. No. 711)

The successful candidate is expected to establish genetic based innovative approaches to pest control combining the engineering of biosynthetic pathways with the emerging technologies of molecular evolution. Previous experience with biosynthetic pathways, preferably in plants, and molecular evolution is desirable. This position will have both laboratory and supervisory activities. Successful candidates will have a Ph.D. and 3+ years of post-graduate experience in molecular biology, biochemistry or related biological science.

In our Disease Control Group:

MOLECULAR PLANT PATHOLOGIST (Pos. No. 715)

The successful candidate will investigate the biology of plant/fungal interactions. This position will develop systems to identify plant and pathogen genes that are important for fungal development and virulence in maize and other important crop species. Additional responsibilities will include translating these discoveries into novel strategies for engineering crop disease resistance. Successful candidates will have a Ph.D. and a proven record of interest and accomplishment in the area of fungal pathogen biology or plant disease resistance.

Novartis Seeds, Inc. offers competitive salaries and attractive benefits packages. Please send cover letter and resume to: Novartis Seeds, Inc., Attn: Human Resources (include Pos. No.), P.O. Box 12257, Research Triangle Park, NC 27709-2257. Novartis Seeds, Inc. is an Equal Employment Opportunity Employer.









Biotechnology Patent Liaison

DuPont Agricultural Products seeks motivated individuals interested in using their scientific skills to protect biotechnology inventions.

Required is a Ph.D. or postdoctoral research experience in molecular biology. Experience in plant genetics, biochemistry, or genomics would be valuable. Experience in the area of intellectual property management or technology licensing and assessment would be helpful, but is not required.

Successful candidates will work with a highly integrated group of people in research, development and legal to prepare new patent applications, provide technical arguments supporting patentability, and manage a growing patent estate. Strong interpersonal skills and excellent oral and written communication skills are essential for this position.

The Intellectual Property Management group is based in northern Delaware. DuPont offers an attractive salary and comprehensive benefits. For consideration, send your resume, including names, phone numbers and email addresses of potential references, by September 30, 1997 to: DuPont Agricultural Products; Stine-Haskell Research Center; Attn: Human Resources, AG-21; P.O. Box 30; Newark, DE 19714.

DuPont Agricultural Products



www.dupont.com

DuPont is an Equal Opportunity Employer.

Postdoctoral Position in Biochemistry/Molecular Biology

The University of Michigan, Department of Dermatology, is seeking a highly motivated, creative scientist to fill a postdoctoral position. Preference will be given to candidates who are available by December, 1997. Applicants should possess a Ph.D. with experience in biochemistry and/or molecular biology, with demonstrated research excellence, and strong written and oral communication skills.

Research will focus on molecular mechanisms through which ultraviolet irradiation activates protein kinase signal transduction cascades leading to expression of gene products associated with destruction of the extracellular matrix in human skin. These studies will also investigate the role of reactive oxygen species and cellular anti-oxidants as mediators of the ultraviolet response in human skin (see Fisher et al., *Nature* 379:335–339, 1996; and *Nature* 379:379: News and Views, 1996).

Positions offer competitive salaries, long-term stable funding, and excellent opportunities for career development/ advancement.

Send curriculum vitae to: Dr. Gary Fisher, Department of Dermatology, University of Michigan, 1150 W. Medical Center Drive, Med Sci I 6447, Ann Arbor, MI 48109-0609. FAX: (313) 647-0076, e-mail: dianemch@umich.edu.

We encourage applications from candidates who will enrich and contribute to the cultural diversity of our University.



ASSISTANT PROFESSOR OF MEDICAL SCIENCE IN TISSUE ENGINEERING/ BIOMATERIALS/ BIOENGINEERING BROWN UNIVERSITY

Applications are invited for a 3-year, renewable tenure-track faculty position as Assistant Professor in the Department of Molecular Pharmacology, Physiology, and Biotechnology beginning on or after July 1, 1998. We are seeking an exceptional candidate who employs innovative cellular and/or molecular approaches to tissue engineering, drug delivery, cell-based therapy, organ replacement technology, and related areas. The position offers a dynamic environment within the Artificial Organs, Biomaterials, and Cellular Technology (ABC) program and offers numerous opportunities for campus-wide and clinical interactions. The successful candidate is expected to be an active participant in the department's teaching program, which includes undergraduate, graduate, and medical student education.

Candidates with training in the areas of biomedical engineering, biomaterials, cell therapy, drug delivery, and tissue engineering will be considered. Applicants should have at least two years of postdoctoral training, or the equivalent, and the potential to develop an independent, externally-funded research program. Candidates already at the assistant professor level will be given full consideration.

Applications received by January 31, 1998, will receive full consideration. Applicants must submit a curriculum vitae; three letters of reference; a two-page summary of research interests including teaching experience and future research plans; and up to three representative reprints. These materials should be sent to: ABC Search Committee, Department of Molecular Pharmacology, Physiology, and Biotechnology, Box G-B3, Division of Biology and Medicine, Brown University, Providence, RI 02912.

We encourage women and minority candidates.

Brown University is an equal opportunity/affirmative action employer.

Environmental Consulting Services

ENVIRONMENTAL TOXICOLOGIST

O'Brien & Gere Engineers, Inc., a nationally recognized, multidisciplined environmental and industrial services organization is in search of an Environmental Toxicologist for its Syracuse, New York headquarters. Responsibilities include management of an established group which performs ecological risk assessments; terrestrial and aquatic habitat assessments; wetland delineation, creation and mitigation design; and related support activities for various permitting, EIS, hazardous waste program (CERCLA/RCRA) and other environmental projects around the country. The ideal candidate will have a Ph.D. with proven management and marketing experience in consulting and an emphasis on chemical fate and transport in the environment and through ecological food chains.

O'Brien & Gere Engineers, Inc., an employee-owned consulting firm, has been providing civil, environmental, and facilities engineering for over 50 years. Approximately 600 engineers, scientists, and support staff are employed in over 25 regional locations nationwide. Opportunities exist to develop a long-term career path with a competitive salary program and attractive benefits package. For more information about O'Brien & Gere Engineers, Inc., please visit our web site (www.obg.com). If you are interested in working with a top-ranked engineering firm, please send a resume and letter in confidence to: O'Brien & Gere Engineers, Inc., P.O. Box 4873, Syracuse, NY 13221. EOE/AA





POSITIONS OPEN

TWO FACULTY POSITIONS VIROLOGY AND MICROBIAL **PATHOGENESIS**

Department of Microbiology and Immunology University of Rochester School of Medicine and Dentistry

The Department of Microbiology and Immunology of the University of Rochester invites applications for two tenure-track positions at the ASSISTANT PROFES-SOR level. Applicants should have a Ph.D. and at least three years of postdoctoral experience. We are seeking (1) individuals with expertise in microbial pathogenesis (applicants with an interest in host-pathogen interactions, opportunistic infections, or emerging infectious disease are encouraged) and (2) a virologist (applicants with interest in human tumor viruses, vaccine biology, and/or viral immunology are encouraged). Successful candidates are expected to develop an externally-funded research program as well as participate in graduate and medical student teaching. The University of Rochester has embarked on major new research initiatives in the areas of vaccine biology and immunology, cancer biology, and aging and development. This will entail the hiring of 50 new faculty and construction of a new research facility. Please send curriculum vitae, statement of research interest, and names of three references to: Virology and Microbial Pathogenesis Search Committee, Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, 601 Elmwood Avenue, Box 672, Rochester, NY 14642. The University of Rochester, is an Equal Opportunity Affirmative Action Employer. For additional information concerning the Department visit our website: http://www.urmc. rochester.edu/smd/mbi/.

FACULTY POSITIONS BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology at the University of Texas-Houston Medical School invites applications for two tenure-track positions at the rank of ASSISTANT PROFESSOR. Applicants with excellent training and accomplishments in the broad area of biochemistry and molecular biology will be considered. We are seeking outstanding scientists who are addressing important biological questions at the level of basic mechanisms. Areas of emphasis include gene targeting in mice, structural biology, and eukaryotic molecular biology. A generous start-up package and competitive salary are provided with each position. The selected candidates will be expected to develop vigorous independent research programs and to teach in the curriculum for graduate and medical students.

The University of Texas-Houston Medical School is located within the Texas Medical Center and provides an exceptional research environment with a variety of core facilities, research centers, and graduate training

Submit a curriculum vitae, the names and addresses of three individuals who can supply letters of reference, and a summary of future research plans to: Julia E. Lever, Ph.D., Chairman, Search Committee, Department of Biochemistry and Molecular Biology, University of Texas-Houston Medical School, P.O. Box 20708, Houston, TX 77225-0708. The deadline is November 1, 1997. Additional information about the department can be found at our website: http://www-bmb.med.uth.tmc. edu.

Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY

Applicants are sought for a full-time, tenure-track Assistant Professor faculty position to participate in the research, instructional, and service activities of the Department. Candidates must have a Ph.D. degree in pharmacology or a closely related discipline, postdoctoral experience, and a record of research productivity in molecular pharmacology. Areas of research interest include, but are not limited to, immunology, endocrinology, and neuropharmacology. For information, contact website: www. olemiss.edu/depts/pharmacology/. Submit a letter outlining research interests and qualifications, curriculum vitae, and names of three references by November 1 to: Administrative Manager, School of Pharmacy, NCDNP Room 1026, University of Mississippi, University, MS 38677. The University of Mississippi is an Affirmative Action/ADA/Equal Opportunity Employer

POSITIONS OPEN

PURDUE UNIVERSITY MOLECULAR PHARMACOLOGY

The Department of Medicinal Chemistry and Molecular Pharmacology at Purdue University seeks to expand significantly its research in molecular pharmacology. Applications are invited for two tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Candidates should hold a Ph.D. in pharmacology or a related area of molecular science and should have at least two years of postdoctoral training; legal authority to work indefinitely in the United States is also required. The department is particularly interested in candidates whose research interests bridge the biology/ chemistry interface in the areas of neuropharmacology and cancer pharmacology. Successful candidates will be expected to establish a strong research program with extramural funding and have a commitment to excellence in teaching at the undergraduate and graduate levels. Minority and women scientists are especially encouraged to apply. Applicants should submit a curriculum vitae, a detailed description of research plans, and the names and addresses of three references to: Search Committee, Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN 47907-1333 by November 1, 1997, or until positions are filled. Purdue University is an Equal Opportunity/Equal Access University

IMMUNOLOGY FACULTY POSITIONS AVAILABLE

The Department of Microbiology and Immunology invites applications for tenure-track positions at the level of ASSISTANT PROFESSOR. We are seeking investigators whose research interests are directed to molecular and/or cellular analyses of contemporary problems in immunology. Candidates will be expected to develop high quality, extramurally funded independent research programs with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The Department offers a highly interactive intellectual environment with strong extramural research support.

The review of applications will begin on September 15 and will continue until the positions are filled. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to:

Dr. Terrance G. Cooper Department of Microbiology and Immunology The University of Tennessee, Memphis 858 Madison Avenue, Room 801 Memphis, TN 38163

Detailed information about the Department may be obtained on the World Wide Web at: http://microbiology. utmen.edu.

The University of Tennessee, Memphis is an Equal Employment
Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ ADA/ADEA Employer.

TENURE-TRACK POSITIONS DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

UNIVERSITY OF TENNESSEE, MEMPHIS

The University of Tennessee, Memphis, Department of Physiology and Biophysics is actively recruiting for two tenure-track faculty positions. Academic rank is dependent upon experience and qualifications. Candidates should have a Ph.D. or M.D. degree, a good track record in publications, and postdoctoral research experience with a background in cellular and/or molecular biology. The abilities to establish an independent research program in the areas of cardiovascular, gastrointestinal, developmental, endocrine, or epithelial physiology and to engage in teaching activities of the department are expected.

Applicants should send a curriculum vitae, copies of three representative publications, and the names of three references to: Dr. Leonard R. Johnson, The Thomas A. Gerwin Professor and Chair, Department of Physiology and Biophysics, UT Memphis, 894 Union Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Minorities and females are encouraged to apply.

POSITIONS OPEN

ASSISTANT PROFESSOR SURGICAL RESEARCH LABORATORY

The Department of Surgery at the University of Tennessee Medical Center at Knoxville invites applications for an Assistant Professor, limited term, non-tenure-track position for the vascular surgical research in the Surgical Research Laboratories. The position requires an individual who has operative skills in experimental surgery. Successful applicants will be expected to carry out a research program in vascular biology, and to teach and advise students, residents, and fellows in basic science methodology. Start-up funds are available, but the candidate will be expected to generate extramural funding. The applicant should possess a minimum of a Ph.D. degree in molecular and cellular biology. Experience in recombinant DNA technology and endothelial/smooth muscle cell biology is desired. An interest in animal models of human diseases is desirable.

The Surgical Research Laboratory is located in the University of Tennessee Memorial Research Center. There are busy clinical vascular, oncologic, and trauma surgery services for clinical collaboration with the Surgical Research Laboratory. Current research interests include: the study of platelet function and fibrinolysis endothelial antigen systems, genetic engineering of endothelial cells, laser and endovascular surgery, noninvasive vascular technology, coagulation, shock, and nutrition.

Contact: Mitchell H. Goldman, M.D., Professor and Director, Surgical Research Laboratory, Department of Surgery, The University of Tennessee Medical Center at Knoxville, 1924 Alcoa Highway, Knoxville, TN 37920. Telephone: 615-544-9234. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action Employer/Title VI/Title IX/Section 504/ADA/ADEA Employer.

GENETIC EPIDEMIOLOGIST FACULTY POSITION UCSF CANCER CENTER CANCER RESEARCH INSTITUTE

The UCSF Cancer Center has an opening for a Genetic Epidemiologist at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants should have experience in studying the prevalence and penetrance of cancer susceptibility genes, interactions between genes and environmental factors, and/or genotype/phenotype interactions. The successful application will occupy laboratory space in the new UCSF Cancer Research building and will collaborate with a multidisciplinary cancer genetics program that is currently developing new methods for detecting mutations and gene rearrangements in tumor specimens, and is developing a state-of-the-art facility for molecular diagnostics. Minimum requirements include a M.D. or Ph.D. in genetics, epidemiology, or a related field, and evidence of independent research capability based on publications and extramural funding.

Interested applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to:

Thea Tlsty, Ph.D., Chair Cancer Research Institute Search Committee c/o Tracey A. Lee UCSF Cancer Center 1600 Divisadero Street, Room C126-A San Francisco, CA 94143-1297

UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-cra veterans and special disabled veterans

TENURE-TRACK FACULTY POSITIONS TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

The Department of Cell Biology and Biochemistry is seeking ASSOCIATE PROFESSORS who desire the opportunity to teach medical/allied health gross anatomy. Collaborative opportunities with investigators in cellular, molecular, and reproductive biology are available. Applications will be reviewed upon arrival and will be accepted until the positions are filled. Please send a curriculum vitae, including a statement of teaching/professional goals, and names and addresses of references to: Dr. Beverly S. Chilton, Faculty Search Committee, Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX 79430. FAX: 806-743-2990. Texas Tech University Health Sciences Center is an Equal Employment Opportunity/ Affirmative Action Employer.

MetaXen

A Revolutionary Approach to Drug Discovery

MetaXen LLC is a California-based company whose mission is to efficiently transform pharmaceutical leads into valuable drug candidates through an interdisciplinary approach to drug screening and optimization. Through this approach, the company expects to advance to the clinic faster and at lower cost than is currently achievable through traditional optimization strategies.

SCIENTIST Molecular Genetics

You will develop and implement strategies for studying gene function in human disease, including bioinformatic and expression profiling approaches. You will also clone, express and characterize relevant genes and perform in vitro experiments to validate specific gene products as targets for therapeutic intervention. A Ph.D. in Molecular Biology, Genetics or a related field plus expertise in DNA recombinant technology tissue culture techniques are required. Experience in somatic mutation techniques to probe gene function is a plus. Job Code: MSB-01

SCIENTIST Molecular Biology

You will use multidisciplinary techniques to study protein function and evaluate the role of specific gene products in human disease. We require a Ph.D. in Molecular Biology, Genetics or a related field and experience in antibody production and characterization by phage display and/or hybridoma methods as well as gene cloning and heterologous protein expression. Familiarity with methods for studying intracellular signal transduction and experience in radioimmunoassay, ELISA and other binding assay techniques are desired. Job Code: MSB-02

SCIENTIST Cell Biology

As part of the Molecular Pharmacology group, you will develop and characterize novel *in vitro* cellular systems to aid the early determination of bioavailability of compounds originating from our cardiovascular and cancer programs. We require a Ph.D. in Cell Biology, Biochemistry or a related discipline and cell culture experience as well as familiarity with techniques to characterize protein expression. Knowledge of cellular transport mechanisms and/or drug metabolism pathways is a plus. **Job Code: MPH-01**

SCIENTIST/SENIOR SCIENTIST Protein Biochemistry

You will perform the purification and characterization of recombinant proteins for assay development and protein X-ray crystallography. We require a Ph.D. in Biochemistry or related discipline and experience in protein purification at a small scale of up to 100 mg from various sources including *E.coli*, yeast and mammalian cells. **Job Code: PBC-01**

All of the above positions require 2+ years' postdoctoral experience. Industrial experience is a plus.

SCIENTIST/SENIOR SCIENTIST Computational Sciences

You will apply state-of-the-art computational techniques to prospectively design individual compounds as well as libraries of compounds for drug lead optimization. Requirements include a Ph.D. in Organic or Medicinal Chemistry with experience applying computational techniques to drug design. You must be familiar with both commercial and research-level computational tools and be comfortable in a multidisciplinary research environment. Job Code: CPS-01

SCIENTIST/SENIOR SCIENTIST Fermentation

You will work in the production of recombinant proteins from various sources including *E.coli*, yeast, mammalian and insect cells. A Ph.D. in Chemical Engineering or other relevant disciplines and 2+ years' industrial experience are required. Extensive experience in microbial fermentations at a small scale of up to 20 liters essential. Experience in mammalian cell protein production desired. **Job Code: PBC-02**

Please send your resume, indicating position of interest and corresponding job code, to: *MetaXen*, 3910 Trust Way, Hayward, CA 94545. Or visit our Web site at www.metaxen.com. EOE

The Power Of Technology Gives Us The Power To Discover.

Polot of biotech jobs put you just off an interstate, a beltway, or freeway, but we'll surround you with rolling tree-covered hills, the ocean to the east, and the mountains to the

west. Research Triangle Park thrives with technology, but offers all the benefits of living in beautiful North Carolina.

Sphinx Pharmaceuticals continues to reinvent the lead generation process by bringing screen development, automation, high throughput screening, combinatorial chemistry, and information technology into a fully integrated drug discovery engine. This inclusive team approach will allow you to utilize your current scientific expertise while working closely with other scientists to develop cutting-edge drug discovery tools. We invite you to apply your skills to change the world of drug discovery, while expanding your own horizons in our brand new, state-of-the-art, 150,000 square foot facility. Currently we are looking for high energy team players with the following backgrounds:

Project Leaders

The selected candidate will be responsible for the development, implementation, and lead follow-up of high throughput and ultra-high throughput screens. Responsible for leading interdisciplinary teams integrating novel biological approaches with innovative technologies and instrumentation in a dynamic biotechnology atmosphere.

Ph.D. level Scientists with expertise in one or more of the following:

- Mammalian Expression Systems and Cell Culture
- FACS
- Mammalian Reporter System Construction
- Assay Development, Miniaturization and Automation
- GPCRs, Signal Transduction
- Fluorescent Assay Technologies
- Enzyme and Receptor Characterization
- Toxicology and ADME Surrogate Models

The ideal candidates will function effectively on lead generation teams which integrate biology, chemistry, automation and information technology.

With competitive compensation, benefits and a supportive professional environment, you'll have the power to achieve your career goals. For consideration, please send your resume to: **Sphinx Pharmaceuticals**, **Attn: Human Resources**, **4615 University Drive**, **Durham**, **NC 27707**. We are an Equal Opportunity Employer.



Lilly

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POSITIONS OPEN

EVOLUTION AND SYSTEMATICS OF LAND PLANTS UNIVERSITY OF MICHIGAN

The Department of Biology and the University Herbarium seek to fill a tenure-track position in the evolution and systematics of land plants at the level of ASSISTANT PROFESSOR, although applications from candidates at all ranks will be considered. People who work with all groups of land plant: and use all research methods are encouraged to apply, but preference will be given to those who study bryophytes or pteridophytes and to those who incorporate molecular techniques and data in their research. The successful candidate must be qualified to teach undergraduate and graduate courses in biology and plant evolution and systematics and must develop an active research program in the systematics and evolution of land plants. Candidates must have a Ph.D. in biology, botany, plant sciences, or a related area, and postdoctoral or comparable experience. Applications should include a curriculum vitae, a letter describing teaching and research interests, and reprints of up to three publications. Send these materials and arrange to have three letters of recommendation sent to the following address:

Land Plants Position Search Committee Chair University of Michigan Department of Biology 830 North University Ann Arbor, MI 48109-1048

Deadline for receipt of application materials is October 10, 1997. The University of Michigan is an Affirmative Action, Equal Opportunity Employer.

NUTRITIONAL BIOCHEMIST UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

The Department of Nutrition invites applications for a tenure-track position as ASSISTANT or ASSOCIATE PROFESSOR. The candidate's research interests should be in the general area of nutrition or metabolism at the cellular or molecular level. We particularly encourage applications from individuals who are using techniques of molecular biology to investigate nutrition-related questions in biochemistry, physiology, endocrinology, or gastroenterology.

The successful candidate is expected to maintain an independent research program, to mentor graduate students, and to contribute to excellence in nutritional biochemistry/metabolism instruction. Our website is http://www.sph.unc.edu/nutr/.

Review of applications will begin on October 1, 1997. The search will remain open until the position is filled. A complete curriculum vitae, statement of research interests and goals, and three letters of reference should be sent to:

Rosalind Coleman, M.D.
Director of Nutritional Biochemistry
Department of Nutrition, CB# 7400,
University of North Carolina–Chapel Hill
Chapel Hill, NC 27599-7400.

The University of North Carolina is an Equal Opportunity Affirmative Action Employer.

JUNIOR AND SENIOR FACULTY POSITIONS UCSF CANCER CENTER CANCER RESEARCH INSTITUTE

The Cancer Research Institute (CRI), a component of the UCSF Cancer Center, invites applications for several new faculty positions. We seek outstanding investigators trained in the areas of cancer biology, cancer genetics, and molecular therapeutics. Successful candidates will receive appointments in academic departments in the School of Medicine and in its graduate programs. New members of the Cancer Research Institute will join an exciting interactive research environment in state-of-the-art research facilities and participate in the development and implementation of an innovative graduate program in Cancer Biology.

Applicants should send a curriculum vitae, a short statement of research plans, and the names of at least three references to:

Thea Tlsty, Ph.D., Chair Cancer Research Institute Search Committee c/o Tracey A. Lee UCSF Cancer Center 1600 Divisadero Street, Room C126-A San Francisco, CA 94143-1297

The University of California is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are encouraged to apply.

POSITIONS OPEN

INSECT NEUROBIOLOGY

The University of Arizona's ARL Division of Neurobiology, an interdisciplinary research and teaching unit devoted to behavioral, cellular, developmental, molecular, and systems neurobiology using insects as experimental models, invites applications for two tenure-track faculty positions for neurobiologists studying insects: (1) neuroethology (emphasizing cellular and systems neurophysiology and neural substrates of behavior) and (2) molecular neurobiology (emphasizing molecular-genetic and biochemical approaches to neural function and/or development). We expect to fill these state-funded positions in 1998 at the level of ASSISTANT PROFESSOR, but one appointment at the level of ASSOCIATE PROFESSOR may be possible. Successful candidates will be expected to conduct productive, externally funded independent research, teach undergraduate and graduate classes, supervise research trainees, collaborate on joint projects, and give service in the unit and the University. Candidates must have a Ph.D. or equivalent degree, at least three years of postdoctoral research experience, a demonstrated commitment to collaborative and independent research, and previous teaching experience.

Review of applications will begin with those received by 15 October 1997, but will continue thereafter until successful candidates are found. Send curriculum vitae, list of publications, reprints of key papers, at least three letters of recommendation, and a statement of research and teaching accomplishments and future plans to: Dr. John G. Hildebrand, ARL Division of Neurobiology, University of Arizona, P.O. Box 210077, Tucson, AZ 85721-0077. Website: http://www.neurobio.arizona.edu/arldn/. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER PHYSIOLOGY AND BIOPHYSICS TENURE-TRACK ASSISTANT PROFESSOR

The Department of Physiology at the University of Colorado School of Medicine has available one tenure-track position at the Assistant Professor level. Applications may be submitted at any time; the appointment will begin in 1998.

The Department Faculty have active research programs in developmental neurobiology, ion channel biology and biophysics, synaptic transmission, sensory transduction, secretion, endocrine and immune physiology. The School of Medicine is strongly research-based, with active interdepartmental programs in cell and developmental biology, immunology, molecular biology, and neuroscience. Applicants will be considered who have research interests in cellular, biophysics, molecular, endocrine, or developmental physiology. The appointee will be expected to conduct vigrous independent research and to participate in professional and graduate teaching. Applicants should send curriculum vitae and the names of at least three references to:

Dr. S. R. Levinson
Chair, Faculty Search Committee
Department of Physiology, C240
University of Colorado
Health Sciences Center
Denver, CO 80262
Website: www.uchsc.edu/sm/physiol

Eaual Employment Opportunity/Affirmative Action.

UNIVERSITY OF MICHIGAN SCHOOL OF DENTISTRY

The Department of Biologic and Materials Sciences is seeking to fill a tenure-track ASSISTANT/ASSOCIATE PROFESSORSHIP with an individual having strong research credentials in microbial diseases of the oral cavity, molecular aspects of bacterial pathogenicity, and/or microbial ecology of mucous membranes. The ideal candidate should be able to generate significant outside research funding and be qualified to teach in the area of host-parasite interactions in the oral cavity (e.g., microbiology of periodontal disease and caries). A Ph.D. and/or a D.D.S. with significant postdoctoral research experience is required. Please send a current curriculum vitae and the names and addresses of three references to: Dr. Don B. Clewell, Chair of Search Committee, Department of Biologic and Materials Sciences, School of Dentistry, The University of Michigan, Ann Arbor, MI 48109-1078. Application deadline: September 15.

The University of Michigan is an Equal Opportunity, Affirmative Action Employer and encourages women and minorities to apply.

POSITIONS OPEN

STANFORD UNIVERSITY ASSISTANT/ASSOCIATE PROFESSOR BIOMECHANICAL ENGINEERING DIVISION MECHANICAL ENGINEERING DEPARTMENT

The Biomechanical Engineering (BME) Division of the Mechanical Engineering Department at Stanford University announces a tenure-track position at a junior level (untenured Assistant or Associate Professor). Candidates should have a Ph.D. degree with research interests in organ, tissue, or cell biomechanics. Areas of possible emphasis include mechanobiology, tissue mechanics, tissue engineering, and computer simulations of surgical procedures. The responsibilities of this position include undergraduate and graduate teaching and student advising. Research interactions are expected with faculty in engineering, medicine, and biology, and a concurrent courtesy faculty appointment in biological sciences or a department in the Medical School is possible.

Applicants should submit a current résumé, a list of publications, and three referee names by December 1, 1997, to ensure full consideration.

Applications, which will be accepted until the position is filled, should be mailed to:

Professor D. R. Carter Chairman, Search Committee Biomechanical Engineering Division Mechanical Engineering Department Stanford University Stanford, CA 94305-3030 E-mail: carter@bones.stanford.edu

Stanford is an Affirmative Action Employer seeking to increase representation of minorities and women among its faculty.

PROFESSOR OF ENVIRONMENTAL HEALTH AND CANCER BIOLOGY

The Departments of Environmental Health and Cancer Biology at the Harvard School of Public Health announce a new tenured faculty position. The most important quality of the successful candidate will be a record of independent, original research. We seek a professor with research interests in occupational and environmental-molecular epidemiology, with emphasis on biomarkers and generovironment interactions. An emphasis on translational research is appropriate. Chemicals, radiation, and the work environment would be an appropriate context.

The successful candidate will be expected to teach graduate students and postgraduates in these fields and to maintain an independent research program that complements ongoing research in the two departments. The candidate would also participate in the John B. Little Center for Radiation Sciences and Environmental Health.

Applicants should send a statement of research interests and a curriculum vitae to:

Richard R. Monson, Chair

Richard R. Monson, Chair ad hoc Senior Search Committee Harvard School of Public Health 677 Huntington Avenue Boston, MA 02115

Harvard University is committed to increasing the number of women and miniorities in its faculty and encourages applications from such candidates.

ASSISTANT/ASSOCIATE PROFESSORS

The Department of Oral Biology at the University of Florida invites applications for two tenure-track positions at the Assistant/Associate Professor level for individuals with a Ph.D. or equivalent degree with an anticipated start date of June 1, 1998. Individuals with strong scientific background, education, and postdoctoral training in areas relevant to biomedical problems and conditions of oral tissues and their environment are encouraged to apply. Applicants are expected to utilize modern cellular and/or molecular biological or other appropriate experimental methods and to establish collaborative activities as well as their own independent research program. Current grant funding is desirable. Teaching responsibilities are to professional and graduate students as part of teaching teams. The positions offer a competitive salary, modern laboratory space, and start-up monies. Send curriculum vitae, a statement of research plan, and the names of three references to: William McArthur, Ph.D., Search Committee Chairman, Department of Oral Biology, P.O. Box 100424, University of Florida, Gainesville, FL 32610-0424. Application deadline is November 1, 1997. Information on the Oral Biology Department can be obtained at website: dental.ufl.edu/OBGRADPA/ Oralbiol.htm. The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer. Qualified minorities and women are encouraged to apply.

EXCELLENCE.

The Pursuit of INNOVATION. ACCOMPLISHMEN

As part of the cardiovascular discovery team, you will be involved in finding ways to help patients live better, longer lives through innovative cardiovascular pharmaceutical products and services. You will become a member of a multi-disciplinary team focused on one of the following: Atherosclerosis, Congestive Heart Failure, Stroke, or Thrombosis.

Ph.D. - Thrombosis Research (Pharmacology or Physiology)

A multidisciplinary team of scientists is seeking a highly motivated senior *in vivo* cardiovascular investigator to join in their search for novel antithrombotic agents. Primary responsibilities include direction of a laboratory program toward development of small animal models of thrombotic disease to study etiologic mechanisms and novel pharmacologic interventions focused upon coagulation. A Ph. D. in Pharmacology or Physiology with 5 years of independent research is preferred. The individual must be sufficiently creative and flexible to effectively address issues ranging from pharmacodynamics to animal modeling of problems that arise during clinical evaluation of drug candidates.

Ph.D. - Bioinformatics

Bioinformatics Scientists and Software Engineers work closely with discovery teams and Genome Scientists to ensure effective use and management of information in biological databases throughout Lilly. An outstanding individual is sought for a number of functions including utilization and integration of gene expression data as well as exploitation of novel software technologies in computational functional analysis. Candidates should have a degree and substantial experience in Bioinformatics and/or Molecular Biology.

Ph.D. - Atherosclerosis Research (Biochemistry)

A position is available at the senior scientist level for a Biochemist with extensive background in the biochemistry of metabolic pathways involved in the development of Atheroscierosis and/or Insulin resistance. Demonstrated expertise in molecular pathways involved in lipoprotein metabolism and expertise in lipid biochemistry and/or enzymology are required together with an experience in the development of whole animal metabolic studies. Experience with insulin signaling would be preferred.

Ph.D. - Congestive Heart Failure (Biochemistry)

A position is available at the senior scientist level (Ph.D. or equivalent) for a Biochemist with extensive background in experimental protein biochemistry of cardiac cells associated with the development of heart failure. The scientist should have significant experience with the in vitro models (cardiac myocytes, fibroblasts) and the molecular and signaling pathways associated with cardiac contractility changes and fibroplasia. The scientist should have proven experience in the routine use of protein biochemistry, DNA-protein interaction, viral transfection, and tissue culture techniques. The capacity to develop functional assays and to interpret functional assays in cardiac cells would be preferred.

Ph.D. - Thrombosis Research (In Vitro Biochemist)

We are seeking a Biochemist with experience in blood coagulation, specifically with the biology and chemistry of coagulation factors and anticoagulants. We expect the scientist to conduct research toward the elucidation of antithrombotic mechanisms and the discovery of novel antithrombotic agents. A qualified candidate would have the ability to integrate basic scientific knowledge and experience into problem solving relevant to drug discovery; interest or experience in the discovery of novel anticoagulant mechanisms and pharmaceutical candidates; interest or experience in the study of mechanism of thrombosis/antithrombotics/anticoagulants; interest or experience in the development of biochemical assays for use in study of antithrombotic agents and for screening and testing compounds as candidates for anticoagulant drug discovery.

Ph.D. - Thrombosis (Biochemistry)

We are looking for a senior scientist to join an exciting and novel approach in our thrombosis research group. A qualified applicant will need a strong background in enzymology and kinetics with additional experience in hemostasis/thrombosis and/or molecular biology being highly desirable. Skill sets should include enzymology, kinetic analysis with allosteric modulators with enzymes, cell culture, coagulation assays, platelet biology, expressing point mutation of recombinant proteins in mammalian cells, and protein purification.

Ph.D. - Cardiovascular Research (Molecular Biologist)

We are seeking a scientist with focus on and expertise in the area of cardiovascular research. The successful candidate should have skill sets including cDNA cloning, library construction, mRNA isolation, and gene expression in E. Coli and eukaryotic systems. Candidates with experience in DNA and protein database exploration are preferred. Biological interests of the candidate should include receptors (alpha-adrenergic), inflammation (including phospholipase A2, IL 1), and endocrine (including insulin, growth hormone).

BSIMS - Cardiovascular Research (Biochemistry, Molecular Biology)

Multiple positions exist in the cardiovascular research group in several disciplines related to the research and positions described above.

All candidates are expected to contribute creatively to basic and applied research directed at drug discovery and should also show excellent interpersonal and communication skills as well as being a team player in a multidisciplinary and challenging environment. Ph.D. applicants should have a minimum of three years postgraduate experience or its equivalent. All candidates with previous industrial experience are strongly encouraged to apply.



An excellent salary. A comprehensive benefits package. A sense of pride. You'll enjoy all this and more when you join us at Eli Lilly and Company. For immediate consideration, please send your resume to: Eli Lilly and Company, US Recruiting and Staffing, Division of Cardiovascular Research, Lilly Corporate Center, Indianapolis, IN 46285. For more information, please visit our Web site: http://www.lilly.com. We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

Knowledge Is Powerful Medicine

POSITIONS OPEN

CELL BIOLOGIST THE UNIVERSITY OF MICHIGAN ASSISTANT PROFESSOR

The Department of Biology at the University of Michigan solicits applications for a faculty position in cell biology. We seek individuals who use molecular approaches to study fundamental problems in cell biology. The successful candidate must have a Ph.D. in biology, cell biology, molecular biology, or a related field, as well as post-doctoral experience. The successful candidate will join active and expanding group of cellular and molecular biologists interested in a variety of fundamental biological questions. In addition to establishing a successful research problem, the candidate will be expected to participate in undergraduate and graduate teaching of the department. To apply, send a curriculum vitae, copies of reprints, brief summaries of present research and future research plans, and arrange to have three letters of reference sent directly by October 10, 1997, to:

Chair, Cell Biology Search Committee Department of Biology University of Michigan Natural Sciences Building Ann Arbor, MI 48109-1048

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

ASSISTANT/ASSOCIATE PROFESSOR INFECTIOUS DISEASES

The Division of Infectious Diseases in the Department of Internal Medicine is seeking outstanding scientists for tenure-track faculty positions. Successful candidates should have an M.D. or Ph.D. with strong postdoctoral research experience in infectious diseases. Special consideration will be given to those involved in studies of the molecular biology, immunology, or pathogenesis of HIV Infection or opportunistic pathogens related to HIV. Must have strong record of research publications and show obvious potential for establishing and maintaining an externally funded basic research program. M.D. candidates should be board-certified in Internal Medicine and board-eligible in Infectious Diseases. Submit covering letter, list of three references, and curriculum vitae to:

Dr. Richard A. Koup Professor and Chief Division of Infectious Diseases The University of Texas Southwestern Medical Center 5323 Harry Hines Boulevard Dallas, TX 75235-9113

The University of Texas Southwestern Medical Center is an Equal Opportunity Employer.

UNIVERSITY OF KENTUCKY ATHEROSCLEROSIS RESEARCH PROGRAM

An opening is available for an ASSISTANT PROFESSOR (tenure-track) level Investigator with research interests in atherogenic mechanisms. This new program will bring together a group of researchers with interests in many aspects of atherosclerotic lesions, with emphasis on plaque vulnerability and rupture. Investigators using mouse models of atherosclerosis will benefit from outstanding animal facilities adjacent to newly constructed laboratory space. Send applications and inquiries to: Dr. Alan Daugherty, Director of Atherosclerosis Research, Division of Cardiovascular Medicine, Room L-543, KY Clinic, University of KY Medical Center, Lexington, KY 40536-0284. E-mail: jmuller@pop. uky.edu; FAX: 606-323-6475. The University of Kentucky is an Equal Opportunity Employer. Applications should include curriculum vitae, three references, and recent publications.

The Department of Physiology and Biophysics at the University of Alabama at Birmingham invites applications for two tenure-track ASSISTANT PROFESSORS. First position-expertise needed in intracellular signaling, molecular biology, and/or electrophysiology of ion channels and other transporters related to cardiovascular function. Second position-expertise in intracellular signaling/inflammation, molecular biology, and/or electrophysiology of ion channels and other transporters. Exceptional individuals with demonstrated ability to integrate molecular and whole-animal studies should apply. Please send curriculum vitae, statement of research plans, and three letters of recommendation by October 15, 1997, to: Dale J. Benos, Ph.D., 1918 University Boulevard, BHSB 706, Birmingham, AL 25394. The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MOLECULAR BIOLOGIST

The Department of Biology at Willamette University invites applications to fill a tenure-track ASSISTANT **PROFESSOR** position beginning August 1998. A Ph.D. is required. Evidence of successful undergraduate teaching and postdoctoral research experience is highly desirable. The successful applicant is expected to engage undergraduate students through classroom teaching and to develop a research program appropriate for a liberal arts institution. Teaching responsibilities will include 1) participation in introductory courses for majors and non-majors; 2) development of courses in area of speciality and a research methods class; and 3) direction of senior research. Applicants are invited from individuals who use a wide array of molecular techniques to investigate contemporary questions in biology. Broadly trained developmental biologists and immunologists with an organismal background are especially encouraged to apply. The successful candidate will occupy spacious teaching and laboratory facilities in the new Olin Science Center.

Candidates should submit a statement of teaching and research philosophies, curriculum vitae, copies of all transcripts, and names with e-mail addresses of three references by October 1, 1997, to: Dr. Scott D. Hawke, Search Chair, Department of Biology, Willamette University, Salem, OR 97301. Telephone: 503-370-6181; e-mail: shawke@willamette.edu; FAX: 503-375-5425. Willamette University is an Equal Opportunity Employer and embraces excellence through diversity.

FACULTY POSITIONS IN PHARMACOLOGY

The Department of Pharmacology of The University of Texas Southwestern Medical Center seeks applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Applicants must have a relevant Ph.D. or M.D. degree, postdoctoral training, and show evidence of firm commitment to a career in independent research. We are particularly interested in considering individuals with an appropriate background who wish to apply techniques of molecular or cellular biology, biochemistry, or physiology to fundamental problems of pharmacological interest. A superb start-up package and excellent facilities are available. Responsibilities will aslo include teaching of medical and/or graduate students after the first year of employment.

Send curriculum vitae and a brief description of proposed research to:

Dr. Alfred G. Gilman, Chairman Department of Pharmacology University of Texas Southwestern Medical Center 5323 Harry Hines Boulevard Dallas, TX 75235-9041

An Equal Opportunity/Affirmative Action Employer.

PENNSYLVANIA. The Division of Neonatology at the University of Pennsylvania and The Children's Hospital of Philadelphia is currently recruiting two Investigators. The first position is for a Ph.D. Researcher at the RESEARCH ASSISTANT PROFESSOR level with experience in the chemistry and physiology of nitric oxide who is interested in both basic research on nitric oxide chemistry and collaborative clinically related studies of oxidant stress and inhaled nitric oxide. Applicant should have demonstrated expertise in the field and potential for obtaining independent research funding. The second position is for an established clinician/scientist with strong clinical experience and a commitment to basic laboratory. This candidate must be BC in neonatology and committed to teaching in an NICU setting. The university faculty rank for this position is expected to be at the ASSOCI-ATE PROFESSOR or PROFESSOR level. Please send curriculum vitae to: Dr. Roberta Ballard, Chief, Neonatology, The Children's Hospital of Philadelphia, 34th Street and Civic Center Boulevard, Philadelphia, PA 19104. FAX: 215-590-3051. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MOLECULAR CARDIOLOGIST UCLA SCHOOL OF MEDICINE

The Department of Pediatrics is seeking an ASSIST-ANT or ASSOCIATE PROFESSOR for tenured, state-funded position. Candidate must have demonstrated the ability to lead a productive research program in molecular cardiology. Send curriculum vitae to: Glenn Wetzel, M.D.-Ph.D., UCLA Pediatric Cardiology, 10833 Le Conte Avenue, Los Angeles, CA 90095. FAX: 310-825-7458; e-mail: gwetzel@pediatrics.medsch.ucla. edu. UCLA is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

THE UNIVERSITY OF WISCONSIN-MADISON DRUG DELIVERY TWO FACULTY POSITIONS

The Division of Pharmaceutical Sciences in the School of Pharmacy, University of Wisconsin–Madison, solicits applications for two tenure-track faculty positions in the general area of drug delivery. The specific area of interest is biomaterials and drug delivery; preferred research emphasis will be in polymeric drug delivery systems, self-assembling systems, nanostructures, macromolecular adsorption, supramolecular chemistry, or related studies. One position is at the FULL or ASSOCIATE PROFESSOR rank, the other at the ASSISTANT or ASSOCIATE PROFESSOR rank. Applicants should possess the Ph.D. in an appropriate field (pharmaceutics, physical chemistry, chemical engineering, etc.) and be capable of maintaining or building a strong independent research program while engaging in productive collaborative interdisciplinary research. A commitment to undergraduate and graduate education is essential.

Applications will be accepted until November 1, 1997. Inquiries and applications should be directed to:

Joseph R. Robinson School of Pharmacy University of Wisconsin–Madison 425 North Charter Street Madison, WI 53706-1515 Telephone: 608-262-7968

FACULTY POSITION IN PHYSIOLOGY TULANE

Applications are invited for non-tenure-track appointment at the rank of ASSOCIATE PROFESSOR. Candidates should hold the Ph.D. or M.D. degree and have a record of excellence in research. The candidate must be a productive cellular and molecular physiologist with a research interest on the molecular and cellular mechanisms underlying atrial natriuretic peptide and angiotensin II signaling. The successful applicant will be expected to have an established research program consistant with an academic appointment at the Associate Professor level and extramurally funded research program. Please submit curriculum vitae, a brief statement of research interest, copies of representative publications, and the names of three references to: Dr. L. Gabriel Navar, Chairman, Tulane University School of Medicine, Department of Physiology SL-39, 1430 Tulane Avenue, New Orleans, LA 70112. We will accept applications until a qualified applicant is found. Tulane University is an Affirmative Action/Equal Opportunity Employer, and qualified women and minorities are encouraged to apply.

ASSISTANT PROFESSORS (2) In Evolutionary Biology/Ecology. The Department of Biological Science at Florida State University invites applications for two positions at the Assistant Professor level. We are particularly interested in candidates in evolutionary ecology and/or systematics, but would consider any excellent candidate who will complement our current faculty in ecology, conservation biology, and evolution. Teaching responsibilities will include an undergraduate course in evolution and participation in the graduate program. Applicants should send a curriculum vitae, a statement of teaching interests, a description of research interests and goals, and relevant reprints. Applicants should also provide the names and telephone numbers of three references and arrange to have letters of recommedation sent to the search committee. All applications should be submitted to: Ecology and Evolutionary Biology Search Committee, Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100. For more information E-mail: search3@ bio.fsu.edu or website: http://www.fsu.edu/biology. Florida State University is an Affirmative Action, Equal Opportunity Employer.

BIOCHEMISTRY FACULTY POSITION CALIFORNIA STATE UNIVERSITY, SACRAMENTO

The Department of Chemistry is seeking a tenure-track faculty at the ASSISTANT PROFESSOR level to teach at a primarily undergraduate institution with also a Master's program. Position begins the start of the fall 1998 academic semester; review of applications begins November 1, 1997. For complete position description and requirements, read the vacancy announcement at the website: http://www.chem.csus.edu. Or contact: James C. Hill, Chair, Chemistry Department, CSU, Sacramento, 6000 J Street, Sacramento, CA 95819. Email: hilljamesc@csus.edu. California State University is an Affirmative Action/Equal Opportunity Employer.

RPI, a leader in the development of ribozyme-based pharmaceutical and agricultural products, is currently seeking an experienced scientist to join our Biochemistry group in our state-of-the-art facility in Boulder, Colorado.

Ph.D. Scientist, Biochemistry

The successful candidate will identify and characterize novel nucleic acid catalysts. Qualifications include a Ph.D. in Biochemistry or related field and 2+ years of related experience. Hands-on experience in combinatorial chemistry or in vitro evolution is highly desirable. Knowledge of enzyme kinetics is required. The successful candidate will also possess excellent communication skills together with the ability to work within a multi-disciplinary team.

We offer a competitive salary and benefits package, including a stock option plan and flexible benefits program. For consideration, please send a curriculum vitae and the names of three references to:

Ribozyme Pharmaceuticals, Inc., Job #062, 2950 Wilderness Place, Boulder, CO 80301. Fax: (303) 449-6995. E-mail: jobs@rpi.com.

Web site: http://www.rpi.com

No phone calls please. We are an Equal Opportunity Employer.





Scientist – Process Development

Somatogen, a biopharmaceutical company located in Boulder, Colorado, currently engaged in the clinical and preclinical development of a recombinant human hemoglobin, has an exciting opportunity available for a Process Development Scientist.

This position will be responsible primarily for developing new and enhanced methods for analyzing process intermediate streams in Somatogen's recombinant hemoglobin manufacturing process. There is also significant opportunity for working on new product developments. The position works closely with process and analytical development scientists.

This position requires a Ph.D. in Biochemistry or an equivalent combination of education and experience. Prior work experience is not essential. To be successful, candidates will need strong skills in practical problem solving through the application of analytical methods. Personal qualities must include good communication skills and a preference for a highly collaborative, teambased work environment. Somatogen offers a competitive salary and benefits package, and relocation assistance. Interested candidates please submit their resume to:

Somatogen Human Resources 2545 Central Avenue Boulder, CO 80301

Females and minorities are encouraged to apply.

An Equal Opportunity Employer

SOMATOGEN

DIRECTOR

UWS/UWM Great Lakes WATER Institute University of Wisconsin-Milwaukee Graduate School

The Graduate School of the University of Wisconsin-Milwaukee is seeking applications and nominations for the position of Director of the newly organized UWS/UWM Great Lakes Wisconsin Aquatic Technological & Environmental Research (WATER) Institute. The WATER Institute supports scientific research, education, and outreach programs related to the preservation and development of aquatic resources within the State of Wisconsin and in the Great Lakes region.

Responsibilities: The Director is responsible for the administration of WATER Institute resources to foster and enhance the research and outreach activities of investigators, educators, and staff. The Director is expected to pursue the development of existing and new cooperative research initiatives, outreach activities, and federal, state, and private sector funding opportunities, and to create an environment that stimulates and supports a broad spectrum of multidisciplinary aquatic research and education.

Qualifications: A minimum of 10 years of relevant experience administering an environmental research organization; a record of productive interaction with government agencies; a doctoral degree in a relevant discipline; and a record of involvement on issues relevant to the WATER Institute mission.

Terms: This is a full-time, 12-month limited title appointment with excellent fringe benefits. Salary commensurate with qualifications and experience.

Expected Start Date: January 2, 1998

Application Procedures: Submit a letter of application, résumé or vitae, and the names, addresses, and phone numbers of three references, postmarked by October 1, 1997, to: Robert A. Jones, Associate Dean, Graduate School, P.O. Box 340, University of Wisconsin-Milwaukee, Milwaukee, WI 53201. Phone: 414-229-5920/e-mail: rajones@csd.uwm.edu.

Names of nominees and applicants who have not requested that their identities be withheld and names of all finalists will be released upon request.

EOE/AAM/F/H/V

CARDIOVASCULAR PHARMACOLOGY

GROUP LEADER

SmithKline Beecham is at the forefront of cardiovascular research and innovation in drug discovery. We have an excellent research opportunity for a leading scientist to join a department committed to cardiovascular disease. We are seeking an independent, accomplished individual with strong molecular biology techniques and strategies and special emphasis on transcription regulation/factors. This leader will join the strategie initiative within Cardiovascular Pharmacology and establish independent basic research incorporating functional genomics, transcription regulation and gene profiling toward novel therapeutic opportunities. These efforts will continue to result in breakthrough discoveries with 21st century technology. Specific areas of interest include atherosclerosis, vascular and cardiac remodeling and matrix formation, smooth muscle/endothelial cell biology and vascular function.

The successful candidate will be a recognized leader in the scientific community with a significant record of publications in high quality, peer-reviewed journals, along with a PhD in Biological Sciences, and at least 10 years' experience with a successful record in a pharmaceutical or academic research organization.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package as well as a stimulating work environment.For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H7-CVLH, P.O. Box 2645, Bala Cynwyd, PA 19004. Indicating Job Code is essential. For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.



Pharmaceuticals

Challenging the natural limits.

Cadus Pharmaceutical Corporation, a leader in the discovery of drugs which regulate G protein-mediated signaling pathways, is expanding its discovery programs based upon its unique proprietary yeast and mammalian cell based screening technologies and has openings for motivated scientists in the following areas:

DRUG DISCOVERY/ CELL BIOLOGY

Code: S-DD BS/MS scientists with a minimum of 2 years laboratory experience with strong background in molecular biology, mammalian cell culture, and receptor signal transduction research. Previous experience in molecular target-based drug discovery is also desirable. Qualified individuals will work within the drug discovery group exploring cellular signaling pathways and designing/implementing secondary assay systems to analyze potential therapeutics.

AND

Code: S-DD2 BS/MS scientists with a minimum of 2 years experience in mammalian cell biology to join our drug discovery group. Experience with mammalian cell culture signal transduction analyses, biochemistry, molecular biology, flow cytometry and microscopy is desirable. Qualified individuals will work on projects focusing on the regulation of cell activation and growth by G protein-coupled receptors.

MAMMALIAN CELL BIOLOGY

Code: S-M BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with a minimum of 3 years postdoctoral research in mammalian cell biology and gene expression to join our assay development group. Expertise with mammalian cell culture, signal transduction analysis and strong molecular biology skills are essential. These individuals will be working with projects involving novel whole cell assay systems for G protein-coupled receptor signaling.

MOLECULAR/YEAST BIOLOGY

Code: S-MYB Ph.D. scientists with a minimum of 3 years postdoctoral research experience in molecular biology for a project expressing mammalian signal transduction proteins in yeast. Background in cellular and molecular biology or biochemistry is required. Experience with yeast and protein analysis is preferred.

NEW LEADS DISCOVERY

Code: S-NL BS/MS scientists with a minimum of 2 years experience in assay development or screening. Experience with yeast and/or mammalian cell culture techniques, cell-based screening assays and/or HTS robotics/automation is desirable. Responsibilities include pilot and implementation of novel cell-based screens for G protein-coupled receptor targets, performing selectivity assays and identifying lead compounds in support of internal drug discovery efforts.

Cadus offers competitive salaries and benefits as well as excellent opportunity for career growth in a stimulating collaborative environment. Send CV and List of References, indicating job code to: Cadus Pharmaceutical Corporation, 777 Old Saw Mill River Road, Tarrytown, NY 10591-6705; or email at: hr@cadus.com. Cadus is an Equal Opportunity Employer.





PHARMACEUTICAL CORPORATION

AgrEvo USA Company

Leading American Agriculture into the Twenty-First Century.

As a result of rapid expansion, AgrEvo USA Company, a leader in crop production, plant protection and environmental health both in North America and the world, has an excellent opportunity for:

Regulatory Specialist, Biotechnology.

Coordinate submissions of transgenic plants and biologicals for US Government (USDA, EPA, FDA) and occasional outside US clearances. Participate within North America Biotech Regional Team to achieve global clearances as required by business plans.

Responsibilities include completing regulatory submissions in correct government approved format; responding to questions from government agencies; assisting in data development; assisting in preparation of written materials regarding the communication of biotech safety info to the public and establishing and maintaining positive working relationships with key government regulators to ensure timely acceptance, review and processing of submissions.

Position will report to Regulatory Manager, Biotechnology, AgrEvo USA Company. Requirements include a minimum of a Master's degree in biological science or biochemistry with established knowledge of basic central issues in the biotech regulatory arena. Strong written/verbal communications, interpersonal and organizational skills essential.



Submit resume to:
Human Resources Department
AgrEvo USA Company
Little Falls Centre One, 2711 Centerville Road
Wilmington, DE 19808
Fax: 302-892-3027



DIRECTOR OF BASIC RESEARCH, DEPUTY DIRECTOR

The University of California, Davis, Cancer Center is seeking a Director of Basic Research at the Professor level. This individual will also serve as the Deputy Director of the Cancer Center. Candidates must possess a doctoral degree and should have outstanding scientific accomplishments in the molecular and basic biology of cancer with demonstrated administrative ability to focus research programs in cancer biology. The University has committed substantial funds for the development of basic cancer research, including four new faculty positions. This program will be housed in the newly opened state-of-the-art Research Building. The Cancer Center, a priority program for UC Davis, intends to fulfill NCI requirements to become a designated cancer center. The candidate should have an outstanding record of publications and a substantial past and current level of extramural research funding. This position will be "Opened Until Filled"; however, for full consideration, applications should be received by October 31, 1997. Please forward the following: 1) letter describing research, teaching, and administrative background; 2) curriculum vitae; and 3) names and addresses of five references to:

> Ralph W. deVere White, M.D. Chair, Search Committee UC Davis Cancer Center 4501 X Street, Room 3003 Sacramento, CA 95817

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

Tenure-Track Positions Assistant Professor Equivalent

Hepatitis C Virus, Molecular Biology and Pathogenesis

A tenure-track position is available in the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, for an MD or PhD scientist to develop an independent research program that will focus on the molecular biology, pathogenesis and vaccine development relating to the hepatitis C viruses and related viruses (viruses of the GMBV complex). Space, technical and postdoctoral fellow support, supply budget and salary are committed. Experience in studies of hepatitis C virus are required. U.S. citizenship is not required for initial application. Deadline date is September 19, 1997. Send applications to Dr. J. Hoofnagle (OE-129), Chairperson, NIAID Tenure-Track Search Committee, Building 31, Room 9A23, 31 CENTER DR MSC 2560, BETHESDA MD 20892-2560.

Molecular Carcinogenesis

The Laboratory of Cellular Carcinogenesis and Tumor Promotion, National Cancer Institute, is searching for a tenure-track scientist to develop an independent research program in the area of molecular aspects of multistage carcinogenesis in epithelial model systems. Candidates should have a PhD, MD or equivalent degree, recent postdoctoral experience and an outstanding record of accomplishment in this research area. U.S. citizenship or eligible-alien status is required. Expertise in cell

and molecular biology and a research approach that combines *in vitro* and *in vivo* models, including the development and use of transgenic and knockout mice, is essential. The Laboratory is particularly interested in attracting candidates whose research focuses on fundamental mechanisms underlying premalignant stages of progression in epithelial carcinogenesis. Deadline date is October 15, 1997. Send applications to Mrs. Kathleen Stine, Executive Secretary (OE-129), NCI, Building 37, Room 5A07, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to two-page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

WWW Site

Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at http://helix.nih.gov:8001/oe



National Institutes Of Health

Office Of Education

http://helix.nih.gov:8001/oe

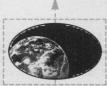
The NIH is an Equal Opportunity Employer

National Human Genome Research Institute National Institutes of Health

Postdoctoral positions are available immediately for the study of mechanisms of neuronal degeneration. The specific research areas include Huntington's disease, Ataxia-telangiectasia and Niemann-Pick type C disease. Details can be obtained from the website at: http:// www.nhgri.nih.gov/Intramural research/People/tagle.html. Candidates should hold a MD and/or PhD and have less than 5 years postdoctoral experience with background in functional genomics that includes expertise in any of the following: recombinant DNA/RNA techniques, molecular biology, protein analysis and purification, cell transfection and expression, and transgenic animals. Applicants should send by September 30, 1997 a curriculum vitae including bibliography, names of 3 references and a statement of research interest to:

Danilo A. Tagle, Ph.D.
Head - Molecular Neurogenetics
Section NHGRI, NIH
Building 49, Room 3A14
49 Convent Drive MSC 4442
Bethesda, MD 20892-4442
datagle@helix.nih.gov

NIH is an Equal Opportunity Employer.



We're redefining the way the world looks at life sciences.

We're the new life sciences company at Monsanto.

And we're even more focused on the future. That's why our entire organization, from agricultural biotechnology to pharmaceuticals to food ingredients, is dedicated to life sciences. Now, we can answer the questions, needs and demands of ever-changing planet. After all, the world's resources are finite, but our vision for the future is limitless.

POSTDOCTORAL SCIENTIST

(Fungal Molecular Plant Pathology)

Monsanto's Chemical Disease Control Team has an excellent opportunity available for a Postdoctoral Scientist who is interested in working on the latest innovations in agricultural research. The successful candidate will work on a project focusing on the rational design and screening of agricultural fungicides. You will also interact with researchers involved in fungal biotechnology, high throughput screening and chemistry.

We require a Ph.D. with a research emphasis in molecular genetics of filamentous fungi including fungal transformation, use of reporter genes and/or fungal genetics. Experience in plant pathology is beneficial but not essential.

We offer a competitive compensation and benefits package. For consideration, please send your resume and three references to: The Monsanto Company, Job Code: PDS, 800 N. Lindbergh Blvd., Mail Zone: C3SH, St. Louis, MO 63167. Fax: (314)694-3038; Visit our website at www.monsanto.com. EEO/AA Employer M/F/D/V

Monsanto

SCHOOL OF BIOLOGICAL SCIENCES

LECTURER IN MARINE BIOLOGY/ ECOLOGY

(CONVERTIBLE) \$43 042 - \$51 113 PA

FACULTY OF
SCIENCE AND
ENGINEERING

REF 97107. The School of Biological Sciences wishes to appoint a lecturer with an interest in the biology/ecology or behaviour of marine organisms or communities. The appointee will join an interdisciplinary School, within which the existing Marine Biology group comprises a recently appointed Professor of Marine Biology and two other academic staff. Two academic staff to support marine aquaculture activities have also recently been appointed. Current research activities within the group include: benthic community ecology; larval ecology and behaviour; marine microbiology, fish and fisheries biology, fish physiology and aquatic food webs.

Candidates with research interests which complement and extend the activities of the group are especially encouraged to apply. Appointees will have access to facilities in Adelaide and the new \$2 million Lincoln Marine Science Centre in Port Lincoln. The position will be available from late 1997 for a period of three years initially, with the possibility of conversion to a continuing position.

The appointee willl contribute to the development and teaching of Marine Biology within the undergraduate program; supervise graduate students (Honours, MSc and PhD); conduct research in an aspect of marine biology or ecology and participate in the research programmes of the School.

A PhD or equivalent and an aptitiude for, and interest in, teaching undergraduates and supervising postgraduates is essential. Post-doctoral experience is an advantage. Applicants should have demonstrated significant research ability and output. Appointment at Lecturer level is not normally made above \$47 885 pa.

Further information and position documentation must be obtained from Associate Professor J.F. Wheldrake, Head of School of Biological Sciences, phone +618 8201 2229, fax +618 8201 3015 or email john.wheldrake@flinders.edu.au Prospective applicants are also encouraged to discuss the position with Professor S. Hall, phone +618 8201 2280, fax +618 8201 3015 or email stephen.hall@flinders.edu.au Further information in relation to this position and the School of Biological Sciences can be obtained via the World Wide Web site http://www.bio.flinders.edu.au:80/

Applicants must address the selection criteria in the documentation. Applications, addressing the selection criteria, quoting the reference number, and giving details of qualifications and experience together with the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged with the Manager, Human Resources, Flinders University, GPO Box 2100, Adelaide SA 5001 or fax +618 8201 3131, by 26 September 1997.

The University reserves the right not to make an appointment or to invite applications.

Applications from suitably qualified women are encouraged.

AUSTRALIA EQUAL OPPORTUNITY IS UNIVERSITY POLICY Limelight FURISO



FLINDERS
UNIVERSITY
ADELAIDE

microscience

Group Leader (Molecular Biologist)

Microscience is a new company presently based at The Imperial College School of Medicine at The Hammersmith Campus (previously The Royal Postgraduate Medical School) specialising in novel vaccine development. We are seeking to recruit a highly motivated, forward looking, skilled Group Leader eager to join a young and dynamic team. The Group Leader will supervise scientists performing Signature Tagged Mutagenesis on a number of different organisms. Applicants must have more than six years' post-doctoral experience in Gram negative or Gram positive molecular biology, be capable of directing several projects independently with drive and enthusiasm and possess good writing and presentation skills.

For more details contact Microscience Ltd.,
Department of Infectious Diseases, The Imperial
College School of Medicine at The Hammersmith
Campus, Du Cane Road, London W12 0NN.
Tel: + 44 (0) 181-383 3301. E-mail: microsci@rpms.ac.uk.
To apply, send a detailed CV and addresses of THREE
referees quoting the reference BMS10/1 by
5th September 1997.

Salary: approx. £30,000 to £36,000 depending upon experience.

Further details can also be found on http://www.microscience.mcmail.com

DEPARTMENT of CLINICAL ONCOLOGY RADIATION ONCOLOGY UNIT

RESEARCH FELLOW

Required to join a new group based at the Western General Hospital, Edinburgh, with interests in mechanisms of sensitivity to ionising radiation, particularly DNA repair. A PhD in biochemistry/molecular biology is essential. Experience of tissue culture, and cell extraction and fractionation techniques, is essential and experience of molecular biology is desirable. The position is available immediately for a period of three years.

Salary on scale: £15,159 - £22,785 per annum.

Please quote REF: 796247SI.

Informal enquiries to Professor Allan Price, Tel: 0131 537 2205.

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

THE UNIVERSITY OF EDINBURGH,

1 ROXBURGH STREET,

EDINBURGH EH8 9TB,

Tel: 0131 650 2511

(24 hour answering service).

http://www.admin.ed.ac.uk/

persnnel/recruit.htm

THE PERSONNEL DEPARTMENT,

Closing date: 12 September 1997.



Promoting Excellence in Teaching and Research

Committed to Equality of Opportunity **Ergoscience Corporation**, located in the metropolitan Boston area, is a biopharmaceutical company which is committed to the discovery, development, and commercialization of novel products for treatment of metabolic and immune systems disorders such as diabetes, obesity, and cancer.

We are currently looking for several scientists and research associates to join our existing multidisciplinary team. Scientists will interact with a multidisciplinary group of organic chemists, cell biologists, immunologists, physiologists, neuroscientists, biochemists, molecular biologists, and chronobiologists to study circadian neuroendocrine regulation of metabolism relating to diabetes, obesity, and atheroscierosis

Position: Two Scientists/Senior Scientists in Metabolism

Two Scientists are required to join our Metabolism and Endocrinology Group. The successful candidates will be expected to develop an independent research program investigating physiological/biochemical mechanisms by which the neuroendocrine system regulates food consumption, whole body fuel homeostasis, and liver, adipocyte, or skeletal muscle metabolism. The research program is expected to lead to the development of drugs that will be useful for the treatment of obesity and type II diabetes.

Requirements: A Ph.D. and a minimum of 3 years postdoctoral experience and proven research track record and specific expertise in lipid and carbohydrate abnormalities associated with insulin resistance in liver, adipocyte, and/or muscle tissue. Experience working in a team environment is an advantage.

Position: Fluorescence Microscopist

Successful candidate will work with our new Nikon Diaphot 300 inverted microscope, which is fully equipped for state-of-the-art epifluorescence measurements, to help elucidate a broad range of questions dealing with intracellular biochemistry in both *in vitro* and *in vivo* systems.

Requirements: M.S. degree in life sciences and minimum 3 years experience with the practical use and theory of fluorescence microscopy.

Position: Neuropharmacologist

Successful candidate will work with other neuropharmacologists, neurophysiologists, and electrophysiologists to study receptor and 2nd messenger systems involved in hypothalmic monoamine and peptide regulation of metabolism.

Requirements: P.h.D. with 3 years postdoctoral experience and proven research track record in neuropharmacology relating to metabolic disorders such as obesity and diabetes. Strong background in techniques associated with neuropharmalogic analysis of drug action, such as autoradiography, receptor ligand binding assays, 2nd messenger analysis, and molecular biology.

Ergoscience Corporation offers a competitive salary, stock option program, and comprehensive benefits in a fast-paced, teamoriented, highly stimulating environment. Qualified applicants are invited to send a résumé with a cover letter to: Anthony H. Cincotta, Ph.D., Ergoscience Corporation, Research Department, 100 First Ave., Fourth Floor, Charlestown, MA 02129 or fax to: (617) 241-6858 or e-mail to: jobs-research@ergo.com.

GLOBAL CAREER OPPORTUNITIES

JOHN INNES CENTRE Project Leader in Genetics of Plant-Virus Interactions

A plant geneticist is required to investigate plant and plant cell responses to virus infection, preferably in Arabidopsis or brassica systems. The postholder will develop an active research group, with opportunities to form active collaboration with other geneticists and virologists at the Centre working with crucifiers, legumes or cereals. The appointment is for a period of five years.

Candidates should have postdoctoral experience in plant genetics and molecular genetics research with interests in plant pathology or cell biology. The ability to lead a viable programme and initiate collaborations in novel areas of plant virus disease research is essential.

The salary will be in the scale of £17,317 to £30,591 per annum (pay award pending), depending on experience. Staff have the opportunity to join a non-contributory superannuation scheme.

For an application form and further particulars write to the Personnel Officer, John Innes Centre, Norwich Research Park, Colney, Norwich, Norfolk, NR4 7UH, quoting reference number VIR/283. The closing date for completed application forms will be 19th September 1997.

The John Innes Centre is a registered charity (No. 511709) grant-aided by the Biotechnology and Biological Sciences Research Council and is an Equal Opportunities Employer



PATERSON INSTITUTE FOR CANCER RESEARCH cancer research campaign



PARTNERSHIP IN CANCER RESEARCH SIX SENIOR APPOINTMENTS

FULL PROFESSORS/READERS/SENIOR LECTURERS

UMIST, the Paterson Institute for Cancer Research (PICR) and the Cancer Research Campaign (CRC) have recently entered into an alliance to build a high quality, interactive research effort that will further strengthen the international standing of cancer studies in Manchester. The appointments will be at either Professorial, Reader or Senior Lecturer level depending on experience and achievement and will be permanent posts. The appointees will be based in PICR where there is substantial support from the CRC and dedicated research laboratories. However, complementary expertise, facilities and equipment are also available at UMIST as appropriate.

Although we encourage all candidates with an interest in cancer research to apply, there are several areas in which UMIST/PICR are particularly interested in developing their research portfolio.

• Peptide therapeutics (ref: BIO/A/98)

• Viruses and Vectors (ref: BIO/A/99)

Signal Transduction (ref: BIO/A/100)

• Post Genome Functional Analysis (ref: BIO/A/101)

• Pharmaco Kinetics (Including Tumour Imaging) (ref: BIO/A/102)

• Molecular Diagnostics (ref: BIO/A/103)

If you are interested please either make informal contact with

Professor Mike Dexter (email: exhtmd@picr.cr.man.ac.uk)

Director.

Paterson Institute for Cancer Research, Wilmslow Road.

Manchester, M20 9BX.

Professor Tony Whetton (email: Tony.Whetton@umist.ac.uk) Department of Biomolecular Sciences,

UMIST, PO Box 88.

Manchester, M60 1QD.

or alternatively, application forms and further details are available from: The Personnel Office, UMIST, PO Box 88, Manchester, M60 1QD.

Please quote the appropriate reference number and state at which level you wish to be considered.

UMIST is an equal opportunity employer

Talented People...Rewarding Results.

At Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us a leader in the pharmaceutical industry. Currently, we have exciting opportunities for a Senior Associate Scientist Research/Safety Pharmacology and two Postdoctoral Fellows in our research headquarters in Ann Arbor, Michigan.

Senior Associate Scientist Research/Safety Pharmacology

The selected individual will assist in the planning, conduct and summarization of studies primarily intended for assessment of safety pharmacology parameters of candidate therapeutic compounds; contribute to development and validation of experimental methodology for safety pharmacology testing. Responsibilities to include veterinary surgery and anesthesia, compound dosing by various routes, observation and accurate recording of experimental data and other procedures as required. The candidate will assist in maintaining studies during off duty hours including weekends and holidays.

A Bachelor's degree with 5-7 years of experience related to the field of safety pharmacology or a Master's degree with 2-4 years' is required. Cardiovascular, pulmonary and CNS pharmacologic assessment techniques are particularly relevant. Familiarity with advanced computerized data acquisition systems is highly desirable. Job Code: RJB-970110

Postdoctoral Fellow

The Molecular Toxicology section has an immediate opening for a Postdoctoral Fellow to investigate both genotoxic and cellular mechanisms of carcinogenicity. A Ph.D. in Toxicology, Molecular Biology or related discipline and up to 2 years of postdoctoral experience are required.

Familiarity with cell culture, biochemical and molecular techniques as applied to assessing mechanisms or carcinogenicity and/or cellular injury is essential. JOB CODE: CJM973205

Postdoctoral Fellow CE-MS Characterization of Proteins

An immediate opening is available in the Analytical Research section of our Chemistry Department for a recent graduate in Biochemistry, Analytical Chemistry or related fields to develop CE-MS separation and analytical characterization methods to study novel protein targets. This individual will be expected to work independently and communicate experimental results at national meetings and through publication. Preference will be given to candidates with a publication record demonstrating experience in protein/peptide separation by capillary electrophoresis and/or analytical analysis of proteins by mass spectrometry. This fellowship is available for one year and may be renewed for a second year upon mutual agreement. Job Code RJB-974171

Members of our world-class pharmaceutical team enjoy competitive salaries, benefits and career growth potential. For consideration please mail, fax or e-mail a CV with a minimum of three references*, indicating the Job Code of interest, to: Parke-Davis, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313)998-3394. E-mail: resume@aa.wl.com

*Submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.



Equal opportunity in action. Smoke-Free work environment

Scientists Senior Scientists Principal Scientists

Roche Molecular Systems, an Alameda, CA company involved in human diagnostics and research products utilizing the polymerase chain reaction technology, has openings for Scientists, Sr. Scientists and Principal Scientists in our Research & Product Development Departments.

For Scientists, a BA/BS & min of 2 yrs additional exp req. For Sr. Scientists, a BA/BS or MS or equiv & min 5 yrs addt'l exp req. For Pr. Scientist, Ph.D. pref & min 5 yrs addt'l exp is req. All degrees should be in one or more of the biological sciences. All positions req exp w/PCR. Exp w/MS Office pref. Check our jobs phone line at (510) 865-5400.

Roche Molecular Systems



Attn: HR Dept. 1145 Atlantic Avenue Alameda, CA 94501-1145 EEO/M/F/D/V

MOLECULAR BIOLOGIST

Supelco, Inc., a leading manufacturer of chromatography supplies, has an immediate opening in our Liquid Separation Research and Development area.

Responsibilities include long range planning of the separations opportunities within molecular biology, as well as short-term product development for nucleic acid purification, protein expression, DNA analysis, mutation analysis and DNA diagnostics products. Requirements include a Ph.D. or equivalent in Molecular Biology or Biochemistry. Experience with laboratory automation is a plus. Candidates with industrial experience will be given preference.

Supelco, Inc. is a Sigma-Aldrich Company located in scenic central Pennsylvania. We are ISO 9001 registered. We offer excellent benefits, competitive pay and a modern work facility. To apply, please send resume to:

SUPELCO, INC. Supelco Park Bellefonte, PA 16823 Attn: Human Resource Office, #10082

Supelco is an Equal Opportunity Employer

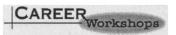


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YOU'RE PROBABLY LOOKING FOR A NEW JOB...

...and you need all the advice you can get. SCIENCE Professional Network's online interactive Career Workshops offer discussions about finding the career opportunity you really want - and keeping it. Moderator John Timpane, Ph.D. and his expert guests share savvy, practical guidance with both novice and experienced job-seekers, and you can join in the dialogue too!

This month, surf the 'Net with John and his guests, Gerry Crispin of Shaker Advertising and Mark Mehler of MMC Group. The topic is "Developing an Electronic Resume," and our experts are eager to help you negotiate the often-dangerous waters of online job-seeking. You'll learn how employers are using new technologies to search for and evaluate candidates. We'll also offer helpful tips so you can find career opportunities using the World Wide Web, e-mail, and other communications tools. Don't be afraid to get your feet wet - jump in and join the conversation!



SCIENCE www.sciencemag.org

Tenure-Track Position Laboratory of Cell Biology Division of Basic Sciences National Cancer Institute

The Laboratory of Cell Biology in the National Cancer Institute has independent tenure-track positions available for a crystallographer and/ or EM crystallographer. A broad interest in how protein structure determines function, including soluble and membrane proteins, and experience in obtaining protein crystals and structures is essential. Other senior researchers in the Laboratory of Cell Biology work with energy-dependent transporters, antigen processing and presentation, ATP-dependent transporters, and melanogenesis. The Laboratory is housed within a dedicated basic cancer research building populated by cell and molecular biologists, biochemists, geneticists, structural biologists, and immunologists, with ample opportunities for fruitful interactions and collaborations. Salary will be commensurate with experience.

A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to:

Ms. Karen Gallin
National Cancer Institute, NIH
41 Library Drive
MSC 5055
Room A206
Bethesda, MD 20892
(301)496-3667

Applications must be received within one month of this announcement.

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

DEPARTMENT OF BIOLOGY THE UNIVERSITY OF CALIFORNIA, SAN DIEGO

The Department of Biology at UCSD has a large faculty spanning many areas of biological science and one of the largest and most diverse graduate programs in the country. We invite applications for the following positions:

Molecular Genetics/Biochemistry of Signal Transduction

A tenure-track/tenured Assistant, Associate, or Full Professor faculty position in molecular genetics and biochemistry of signal transduction of eukaryotes or related areas, effective summer, 1998. This position will be associated with the Center for Molecular Genetics, an Organized Research Unit of the University of California.

Salary will be commensurate with level of appointment and based on the UC salary scale. The successful candidate is expected to develop or continue a vigorous research program, and participate in the undergraduate and graduate teaching curriculum. A Ph.D. degree and several years of productive postdoctoral research are required.

Please submit curriculum vitae, a statement of professional goals and research interests, phone and fax numbers and e-mail address, names, phone and fax numbers, and e-mail addresses of three references by November 1, 1997, to Signal Transduction Search Committee, Department of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.

Biochemistry/Molecular Biology

A position in Biochemistry/Molecular Biology with strong preference for the Assistant Professorial (tenure-track) level. Exceptional candidates pursuing innovative biochemical approaches to problems in molecular biology are encouraged to apply. Areas of interest include DNA replication, RNA splicing, DNA repair, and gene expression.

Salary will be commensurate with level of appointment and based on the UC salary scale. The successful candidate is expected to develop a vigorous research program, and participate in the undergraduate and graduate teaching curriculum. A Ph.D. degree and several years of productive postdoctoral research are required.

Please submit curriculum vitae, a statement of professional goals and research interests, phone and fax numbers and e-mail address, names, phone and fax numbers, and e-mail addresses of three references by November 1, 1997, to Biochemistry Search Committee, Department of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.

Cell Biology

A position in Cell Biology with strong preference for the Assistant Professorial (tenure-track) level. Exceptional candidates pursuing innovative approaches to cell biology are sought. Areas of particular interest are the cytoskeleton, organogenesis, pathogen invasion, the extracellular matrix, and cellular differentiation. However, excellent candidates investigating any fundamental aspect of cell biology are encouraged to apply.

Salary will be commensurate with level of appointment and based on the UC salary scale. The successful candidate is expected to develop a vigorous research program, and participate in the undergraduate and graduate teaching curriculum. A Ph.D. degree and several years of productive postdoctoral research are required.

Please submit curriculum vitae, a statement of professional goals and research interests, phone and fax numbers and e-mail address, names, phone and fax numbers, and e-mail addresses of three references by November 1, 1997, to Cell Search Committee, Department of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.

All positions are contingent upon funding becoming available.

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

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR BEHAVIORAL NEUROSCIENCE

Faculty opening in the Department of Behavioral Neuroscience, School of Medicine, Oregon Health Sciences University (OHSU). The appointee would join the faculty at OHSU and affiliated Portland VA Medical Center in teaching medical students and offering Ph.D. and postdoctoral training in behavioral neuroscience supported by NIH training grants and individual research grants. Candidates should have a Ph.D. degree, postdoctoral experience, and demonstrated ability to conduct independent research in an area complementary to current faculty interests. The specific area of research is open, but of particular interest is someone with behavioral expertise studying learning and memory, behavioral endocrinology, and/or development. Candidates should send application letter, curriculum vitae, statement of research interests, recent reprints, and arrange to have three letters of recommendation sent to: John C. Crabbe, Ph.D., c/o Ginger Ashworth, Department of Behavioral Neuroscience L470, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. Website: http://www.ohsu.edu/som-BehNeuro/. Interviews will begin mid-October, 1997. OHSU is an Affirmative Action/Equal Opportunity Employer.

RENAL PHYSIOLOGIST

Applications are invited for an appointment as a Renal Physiologist to lead a strong and distinguished research program in regulatory physiology in the Division of Intramural Research, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health. Candidates are sought with experience using modern molecular and cellular approaches, including functional studies in genetically modified animals, to understand intrarenal regulation of the circulation. Candidates should have a strong international reputation and record of a highly competitive and productive research program. Please send curriculum vitae and bibliography to: Ms. Kay Place, Division of Intramural Research, NIDDK, Building 10, Room 9N222, 10 Center Drive, MSC 1818, National Institutes of Health, Bethesda, MD 20892-1818. The closing date is August 28, 1997.

POSITIONS OPEN

SEARCH EXTENDED. The College of Pharmacy, Western University of Health Sciences invites applica-tions for a **TENURE-TRACK POSITION** in pharmacology, beginning January 1, 1998. Applicants should have a strong commitment to innovative teaching methodologies, a desire to participate in the graduate program, and ability to establish an extramurally funded research program. Salary and rank are negotiable and commensurate with qualifications and experience. Interested individuals should send a letter of interest, a full curriculum vitae, and three letters of reference to: Krishna Kumar, Ph.D., Chair, Search Committee, Western University of Health Sciences, College Plaza, 309 East 2nd Street, Pomona, CA, 91766-1854. Telephone: 909-469-5554; FAX: 909-469-5501; email: kkumar@westernu.edu. Western University is committed to the education and professional development of generalist/primary care oriented health professionals. Successful applicants for this position will be expected to contribute to the advancement of this mission by ensuring humane and caring service to people from all walks of life. Affirmative Action/Equal Opportunity Employer

ANATOMIST/BIOLOGIST

Nazareth College invites applications for a nine-month, tenure-track position of anatomist/biologist for its program leading to a B.S. in health science and M.S. in physical therapy. Responsibilities include development and teaching of a computer-simulated gross anatomy laboratory, plus health science and biology laboratory courses such as histology/pathology, anatomy and physiology, and human biology. Interest in research relevant to the field of physical therapy is strongly encouraged. Qualifications include an earned doctoral degree with college teaching experience. A physical therapy degree is preferred. Applications will be considered until the position is filled. Send a letter of application, a curriculum vitae, and the names of three references to: Marcia Miller, DC, PT, Search Committee Chairperson, Physical Therapy Department, Nazareth College of Rochester, 4245 East Avenue, Rochester, NY 14613-2908; Telephone: 716-389-2900; FAX: 716-389-2908; e-mail: namiller@naz.edu. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR, The Department of Pathology and Laboratory Medicine at The University of Cincinnati College of Medicine is seeking a faculty member for the new program in lipid and lipoprotein metabolism. The program is currently housed in the new Cardiovascular Research Center with investigators actively working on lipolytic enzymes, apolipoproteins, lipoprotein receptors, and lipid transport proteins. All investiga tors in this program are currently supported by NIH. We are seeking a faculty with strong background in molecular biology and physical chemistry to complement the exist-ing faculty. Successful candidate is expected to develop an internationally recognized independent research program in structure-function relationship of lipids and proteins. The candidate is also expected to participate in the educational efforts of the Department and to collaborate with current faculty in expansion of the lipid research program. Applicants with a strong record of productivity in the areas of research identified above are urged to submit, as soon as possible, curriculum vitae, bibliography, a brief statement of research interests, and arrange for three letters of recommendation to be sent to: Dr. David Hui, Department of Pathology and Laboratory Medicine, University of Cincinnati, P.O. Box 670529, Cincinnati, OH 45267-0529.

ASSISTANT MICROBIAL GENETICS SPECIALIST

Breed wine yeast strains for improved oenological properties. M.S. degree and expertise in genetic analyses of yeast, carrying out crosses between homothallic wine yeast strains using spore-spore pairing techniques, and in performing assays of various products of fermentation, are required. Experience in the analysis of the segregants from dissections using a variety of biochemical tests is desirable. Salary range: \$32,556 to \$37,284 per annum. Appointment is for one year but current funding limited to two months; renewable subject to availability of funds. Send résumé and names of three references by September 26, 1997, to: Dr. Robert K. Mortimer, Department of Molecular and Cell Biology, 229 Stanley, #3206, University of California, Berkeley, CA 94720-3206. The University of California is an Equal Opportunity/Affirmative Action Employer.

GORDON RESEARCH CONFERENCES

The 1998 Winter and International GRC Programs will appear in the October 10, 1997 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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NATIONAL INSTITUTES OF HEALTH

Undergraduate Scholarship Program (UGSP)

Qualified undergraduates can train and be mentored at the cutting edge of biomedical research while receiving scholarship support.

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency. NIH offers scholarships to qualified individuals who are committed to a career in biomedical research.

Scholarships up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

During each year of the award, scholars serve for 10 weeks (with salary/benefits) as employees in NIH research laboratories. They are assigned mentors, participate in seminars and programs available to all NIH researchers, and are provided with housing and transportation. After graduation, they serve 1 year of full-time employment at NIH for each year of scholarship support.

Interested students should apply if they:

- Are committed to a career in biomedical research:
- · Are from a disadvantaged background;
- Have a GPA of 3.5 or are in the top
 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

This is a special opportunity for special students.

For more information, contact

NIH/OD/OIR/OLRS UGSP 7550 Wisconsin Avenue, Room 604 Bethesda, MD 20892-9121

Phone: 800-528-7689 Fax: 301-402-8098 e-mail: ugsp@nih.gov TTY: 1-888-352-3001

http://ugsp.info.nih.gov



Rhône-Poulenc Rorer, a global leader in the pharmaceutical industry, is seeking highly motivated, team-oriented scientists to join our research group located in Collegeville, Pennsylvania.

CARDIOVASCULAR

Research Assistant/Assistant Scientist

BS in Biology. Previous experience in basic research environment performing biochemical, cellular or molecular techniques is desirable. (SD-KC)

Scientist/Associate Research Scientist

BS or MS in Biology with a minimum of 2 years basic research experience performing cellular and molecular techniques with a high level of independence. Previous experience in cardiovascular research and/or cell signaling research is preferred. Experience in working with myocytes or smooth muscle cells in culture would be advantageous. (SD-KC)

Assistant Scientist/Associate Research Scientist

BS or MS in Biochemistry or Biology with 1-5 years research experience in the areas of hematologic or coagulation assays. Working knowledge of flow cytometry or tissue culture techniques would be beneficial. (SD-VC)

Assistant Scientist/Associate Research Scientist

BS or MS in Pharmacology, Molecular Biology, or a related field of science with 3-5 years experience in vascular biology (atherosclerosis, thrombosis, hemostasis). Expertise in cell and molecular biology along with in situ hybridization/histology techniques is desirable. (SD-RL)

Research Scientist

Ph.D. in Biochemistry, Pharmacology, or related field of science underlying thrombosis/hemostasis research with 0-3 years experience. Expertise in enzymology, cell biochemistry, molecular biology and in the development and application of novel assays for the discovery of antithrombotic drugs. (SD-VC)

CELL BIOLOGY

Associate Research Fellow

Ph.D in Cell Biology or related field with a minimum of 5-7 years post doctoral experience. Expertise in cell biology of monocytes/macrophages is essential; experience in signal transduction biology, and in vitro analysis of adhesion, activation and/or apoptosis is also required. Candidate will be responsible for identifying novel signaling pathways/ molecules involved in macrophage adhesion and activation; collaborating with other scientists to validate potential therapeutic targets; and supervising/training staff. Duties also include writing research reports and presenting results at internal and external meetings. (SD-MJ)

BIOINFORMATICS

Bioinformatics Research Scientist Gene Medicine Department

BS/MS in Life Science or Computer Science with 3-5 years of biocomputing experience. Demonstrated experience in DNA and protein sequence analysis and in the design, implementation, and maintenance of annotated sequence databases. Programming experience in C++, SQL, PERL (and/or CGI), UNIX, Java, as well as HTML page design. Background in scientific database development (Oracle). Familiarity with the Macintosh and Windows operating systems. Candidate will perform sequence and structural searches related to proprietary DNA and protein information generated within the department. Liaison with the Information Services Department to coordinate the scientific design and implementation of applications for search and analysis of genomic and biological data. Design proprietary database structures for the storage and manipulation of genomic and proteomic information. (SD-SF) Rhône-Poulenc Rorer offers a competitive salary, excellent benefits, a highly challenging work environment, and opportunities for advancement. Qualified candidates should send their resume, indicating position of interest, to: Rhône-Poulenc Rorer Research & Development, , P.O. Box 5096, Human Resources, Mailstop H37, Position _____, P.O. Box 5096, Collegeville, PA 19426-0800. Equal Opportunity Employer, M/F/D/V.



POSITIONS OPEN

ASSOCIATE PROFESSOR/PROFESSOR, CELL SIGNALING

Applicants are invited for a tenure-track faculty position at the level of Associate Professor/Professor (position number: 673N). We are seeking an established investigator with expertise and productivity in the general area of cell signaling. The successful candidate will be expected to direct an innovative and externally funded research program and to participate in the teaching responsibilities of the Pathobiology and Molecular Medicine Graduate Program. Preference will be given to applicants with a documented record of research funding and whose interests complement departmental research activities in carcinogenesis, apoptosis, or endothelial/vascular cell biology.

Interested applicants should send a curriculum vitae, description of research interests, and the names of three references. Applications will be accepted until the position is filled. Applications and inquiries should be directed to:

Dana Brindley

Department of Pathology and Laboratory Medicine
University of Cincinnati College of Medicine
231 Bethesda Avenue
P.O. Box 670529
Cincinnati, OH 45267-0529

CENTER FOR RADIOLOGICAL RESEARCH COLUMBIA UNIVERSITY ASSISTANT PROFESSOR/POSTDOCTORAL RESEARCH SCIENTISTS

Immediate opening for a tenure-track faculty position as well as Postdoctoral Research Scientists. Candidates should have a Ph.D. and/or M.D./Ph.D. in radiation biology, molecular genetics, or other related disciplines. Faculty candidates must have an outstanding track record for independent research and extramural support. Postdoctoral candidates should have experience in cell biology and molecular genetics to study 1) mechanisms of radia tion-induced neoplastic transformation of human cells, 2) radioresistance and cell cycle checkpoint control in mammalian cells and yeast; or 3) mechanisms of mineral fiberinduced mutagenesis in mammalian cells. Send curriculum vitae, names and addresses of three references, and, for faculty candidates, a statement of current and future research plans to: Dr. Eric J. Hall, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

MODELERS

The National Institute for Occupational Safety and Health (NIOSH), Health Effects Laboratory Division (HELD), has immediate openings for mathematicians, scientists, and engineers skilled in mathematical/computer modeling. Candidates should have an M.S. or Ph.D. degree and extensive experience in modeling research. Experience in occupational or environmental safety and health research is highly desirable for the leadership position. Specific research areas include ab initio quantum mechanics, analysis of complex spectroscopic data, molecular modeling, quantitative structure-toxicity relationships, toxicokinetics, complex biological systems, computational fluid dynamics, and complex engineering/physical systems. Salary range is \$25,000 to \$82,000; benefits packages available. For application information, contact: NIOSH, HELD/EAB/MR, 1095 Willowdale Road, Morgantown, WV 26505. Permanent positions are announced on the CDC website: http://www.cdc.gov. U.S. citizenship required for permanent positions. Some temporary positions also available. CDC/NIOSH is an Equal Opportunity Employer.

BIOCHEMIST. New College of the University of South Florida. Tenure-track ASSISTANT PROFES-SOR for August 1998. Ph.D. required; postdoctoral desirable. Strong commitment to undergraduate teaching including undergraduate research is essential. Teaching responsibilities include development of a biochemistry lecture and lab and participation in related courses and tutorials. New College is a small, highly ranked honors college. New Natural Sciences Complex expected in 1999. Send curriculum vitae with teaching experience, three letters of reference, statement of teaching philosophy, research plans, transcripts, and one or two research papers by October 9 to: Search Committee, Nat Sci, New College of USF, 5700 North Trail, Sarasota, FL 34243-2197. USF is an Equal Opportunity Employer/Affirmative Action/ADA institution. Women and minority candidates encouraged.

POSITIONS OPEN

DIRECTOR/RESEARCH ADMINISTRATION AND EDUCATIONAL PROGRAMS

The Marine Biological Laboratory has an opening for a person responsible for the direction of educational programs and grant and contract administration. This position is also responsible for the development of relations with private enterprise. Ph.D. in a scientific discipline highly desirable. Must have held a major administrative position with at least four years of experience in grant and contract preparation as well as involvement in biology education. Must have working knowledge of federal regulations and funding agencies' regulations and an understanding of science education, especially at the graduate and postdoctoral level. Must have record of effective grant submissions and superi-or written and verbal skills. Submit curriculum vitae and names and addresses of three references to: Susan Goux, Director of Human Resources, MBL, 7 MBL Street, Woods Hole, MA 02543. E-mail: resume@mbl.edu (We can accept e-mail attachments in MIME and binhex for Microsoft Word 6.0 or lower versions). Review will begin on September 22, 1997.

Equal Opportunity/Affirmative Action/Nonsmoking environment.

JILA

JILA (operated jointly by the National Institute of Standards and Technology and the University of Colorado) is devoted to research and applications in the fields of laser technology, optoelectronics, precision measurement, surface science and semiconductors, information and image processing, materials and process science, as well as basic research in atomic, molecular and optical physics, precision measurement, gravitational physics, chemical physics, astrophysics, and geophysical measurement. At JILA there is interest in fostering further interaction with industry research efforts in order to identify new, industrially relevant applications of the technologies developed. Applications are invited for two programs:

RESEARCH ASSOCIATESHIPS for advanced research by recent Ph.D.'s. Applications are accepted and considered anytime throughout the year.
VISITING FELLOWSHIPS for advanced research

VISITING FELLOWSHIPS for advanced research by senior scientists. Deadline for completed applications is November 1, 1997.

Further information may be obtained from: Secretary, Visiting Scientists Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-0440.

The University of Colorado at Boulder strongly supports the principle of diversity in all its forms. We are interested in receiving applications from women, ethnic minorities, persons with disabilities, veterans, and veterans of the Vietnam era.

ASSISTANT PROFESSOR OF BIOLOGY. The University of Pittsburgh at Bradford invites applications for a tenure-track position beginning January 1998 or September 1998. Ph.D. required. Applicants must be able to teach introductory biology, botany, genetics, ecology, and courses in area of expertise. Excellence in teaching, academic advising, and the ability to direct undergraduate research are essential. (For Pitt-Bradford information see website: www.upb.pitt.edu.) Please provide curriculum vitae, letter of application stating teaching experience and research interests, official transcripts, and three letters of recommendation by October 30, 1997, to: Dr. Francis Mulcahy, Chair, Biology Search Committee, University of Pittsburgh at Bradford, Bradford, PA 16701-2898. Affirmative Action/Equal Opportunity Employer.

CALIFORNIA INSTITUTE OF TECHNOLOGY invites applications for a position as ASSISTANT PROFESSOR of chemical physics with an initial appointment for four years. Outstanding individuals with a Ph.D. and strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 1997, curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: Professor B. Vincent McKoy, Arthur Amos Noyes Laboratory of Chemical Physics, 127-72, California Institute of Technology, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSITIONS OPEN

IMAGE PROCESSING STAFF

The Department of Biomedical Engineering in The Lerner Research Institute at The Cleveland Clinic Foundation invites applications for a faculty position in the area of breast or cardiovascular image processing. The successful candidate must be an independent investigator who has successfully established his/her own research program. The appointee is expected to maintain an active research program, contribute to existing research programs, and supervise graduate student research. Presently, image processing research in the Department of Biomedical Engineering includes evaluation of cardiovascular disease using novel histochemical techniques and clinical imaging modalities, automated detection and diagnosis of breast cancer in X-ray mammograms, and characterization and temporal tracking of multiple sclerosis in magnetic resonance images of the brain. The Biomedical Image Processing group consists of a multidisciplinary team of engineers, research scientists, and physicians. For further information, please refer to the Image Processing website: http://www.ccf.org/ri/bme/image. Applicants must have (1) a Ph.D. or equivalent in biomedical engineering, computer science, or related discipline; (2) a history of publications in his/her specialization area; and (3) demonstrated ability to pursue and secure extramural research funding. Excellent verbal and written communication skills are required. Qualified candidates should submit a curriculum vitae, a brief statement detailing research interests, and three references to: J. Fredrick Cornhill, D. Phil., Chairman, Department of Bio-medical Engineering, Wb3, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. Affirmative Action/Equal Opportunity Employer.

DIRECTOR ENVIRONMENTAL STUDIES PROGRAM MACALESTER COLLEGE

Macalester College is seeking an experienced and broadly trained ENVIRONMENTAL SCIENTIST to assume the Directorship of the College's interdepartmental Environmental Studies Program. The position is expected to be a joint appointment with one of the college's science departments (biology, chemistry, geology, physics) and hiring is expected to be at the Associate or Full Professor level. The successful candidate will be able to collaborate across disciplines, will have an interest in global/international environmental problems and environmental issues involving the upper Midwest, and will possess prior experience in an academic leadership position. To apply, send a curriculum vitae, cover letter describing teaching philosophy and experience and research/professional background, and three letters of reference to: Professor Mark Davis, Director, Environmental Studies Program, Macalester College, St. Paul, MN 55105. E-mail: davis@macalester.edu. Review of applications will begin on October 20, 1997. Macalester College is an Affirmative Action/Equal Employment Opportunity Employer.

SCIENTIFIC COMMITTEE MANAGER

A nonprofit scientific foundation working in the areas of health and environmental sciences seeks a scientific committee manager with scientific consulting/association background and understanding of basic toxicology, risk assessment, and regulatory issues. Position requires experience in all aspects of committee management: research project development and management, literature review, technical writing, conference organization, arranging committee meetings, minute writing, monitoring and preparing budgets, and correspondence and reports. Master's degree in scientific field such as chemistry, toxicology, environmental health, etc., required. WordPerfect for Windows helpful. Send résumé and salary history to: Human Resources, ILSI, 1126 Sixteenth Street, N.W., Washington, DC 20036. FAX: 202-659-3859. Equal Opportunity Employer/Minorities/Females.

EXPERIENCED ELECTRON MICROSCOPIST

To participate in a highly interactive and motivated lab of molecular biologists; analysis of gene knockout mice with emphasis on the cytoskeleton. Ph.D. is desirable; expertise in immuno EM is essential. Long-term position. Submit résumé and list of three references to:

Dr. Elaine Fuchs
Howard Hughes Medical Institute
The University of Chicago
5841 South Maryland Avenue
MC1028 Room N314
Chicago, IL 60637

Affirmative Action/Equal Opportunity Employer,

THE J. DAVID GLADSTONE INSTITUTES

University of California, San Francisco San Francisco General Hospital



Postdoctoral position available immediately in the laboratory of Dr. Bruce Conklin. Study G protein signaling in transgenic mice using specially designed receptors and the tetracycline transactivator system. Strong background in molecular/cellular biology is required. For details see website. #C97-011.

Postdoctoral position available in the laboratory of Dr. Robert Pitas. Study the molecular basis for the impact of apolipoprotein E4 on neurite outgrowth and Alzheimer's disease. A combination of *in vitro* studies and studies with transgenic models will be used to examine the mechanism for the contribution of apolipoprotein E4 to Alzheimer's disease. Candidates should possess an M.D. or Ph.D. in neurobiology. #C96-017.

Postdoctoral position available immediately in the laboratory of Dr. Israel Charo. Study the molecular biology of Chemokine Receptors. Methodology includes transgenic and knockout models. Molecular mechanisms of chemotaxis and roles as Co-Receptors for internalization of HIV-1. A strong background in molecular/cellular biology is required. #C95-063.

Interested candidates, please send C.V. and references to: Job #_____, The Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141. Fax (415) 826-3708. Email: hr@gladstone.ucsf.edu For more information about the Gladstone Institutes, please visit our website: http://gladstone.ucsf.edu

Equal Opportunity/Affirmative Action Employer

PENNSTATE



PENN STATE UNIVERSITY Department of Biochemistry and Molecular Biology Assistant Professor

Penn State University has made a commitment to expanding education and research in the biological sciences through a new, university-wide Life Sciences Consortium. As part of this program, the Department of Biochemistry and Molecular Biology invites applications for a tenure-track faculty position at the assistant professor level in protein crystallography. Preference will be given to candidates with research interests that complement existing strengths of the department including protein-nucleic acid interactions, electron transport mechanisms, and enzymology. The successful candidate will be eligible to participate in an NSF training grant. The department has excellent research facilities and provides competitive start-up packages. The application should include current curriculum vitae, a summary of past research experience, and a statement of future research goals. In addition, three letters of reference on the applicant's behalf should be sent to:

Dr. Gregory K. Faber
Department of Biochemistry and Molecular Biology
108 Althouse Laboratory, Box PX-S
Penn State University
University Park, PA 16802

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

Type 2 Diabetes Mellitus Research Program SCIENTIFIC PROGRAM MANAGER NIH RESEARCH ADMINISTRATION

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applicants for the position: **Director for the Type 2 Diabetes Mellitus Research Program**. This position is located in Bethesda, Maryland, and is a permanent full-time position for a Scientific Program Manager (GS-13 or -14) with a salary range of \$54,529 to \$88,396 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

The Director for the Type 2 Diabetes Mellitus Research Program is responsible for planning, developing, managing and evaluating a multimilion dollar program of grant and contracts which supports high quality basic and clinical studies throughout the world. This individual will be responsible for identify research priorities, organizing scientific meetings and closely interacting with leading researchers in the field. This grant portfolio focuses on research related to type 2 diabetes mellitus including insulin resistance, glucose metabolism, and the mechanism of insulin action. Applicant scientists (Ph.D., M.D., or equivalent) should have a track record of accomplishments in biomedical research related to diabetes and excellent interpersonal and written communication skills.

A position description and qualifications for the position are available from Ms. Virginia Kreamer in the Office of Human Resource Management, NIDDK. The deadline for applications is October 1, 1997. Submit a CV, bibliography, application background survey (optional) and supplemental qualifications statement to: Mr. Ronald Sleyo, Office of Human Resource Management, NIDDK, NIH, Building 31, Room 9A34, 31 Center Drive MSC 2560, Bethesda, MD 20892-2560; Email: sleyor@niddk.nih.gov. Applicants may also apply to this position via the Internet. The full text vacancy announcement and on-line application for this position is available at:

http://ohrm.cc.nih.gov/nihhrm/ANNOUNCEMENT/ON-LINE.html

U.S. Citizenship is Required. NIH is an Equal Opportunity Employer. Minority and Women Applicants are Encouraged to Apply.



MOLECULAR BIOLOGIST

Ambion, Inc. develops innovative products and kits for molecular biology research focused around RNA. We are seeking SENIOR SCIENTISTS for research and development. Candidates should have a Ph.D. in molecular biology or related field, a strong publication record, and an entrepreneurial spirit. Experience with *in situ* hybridization or protein expression/purification a plus. Ambion is in Austin, Texas, the state capital and home of the University of Texas. Austin is situated on the edge of the Texas hill country and highland lakes region.

Ambion offers a stimulating work environment, competitive salary, company-paid benefits, 401(k) plan, and

employee bonus plan.
Reply to: Ambion, Inc. (Job #164), 2130 Woodward Street, Suite 200, Austin, TX 78744-1832.
Website: www.ambion.com. Equal Opportunity Employer.

IMMUNOLOGIST

MEGAN Health, Inc. has an opportunity for a Ph.D.-level scientist to design, develop, and evaluate vaccines using live avirulent *Sahnonella* vector systems. Candidates should have three-plus years of graduate and postdoctoral research experience in mucosal, humoral, and cellular immunology. Expertise in induction monitoring and evaluation of avian and/or manmalian (murine/human) immune responses is especially desired. Candidates should have some experience with various vaccination routes and with molecular genetics. Familiarity with GLP is a plus.

MOLECULAR BIOLOGISTS

MEGAN Health, Inc. has opportunities for Ph.D.-level scientists to conduct research leading to the development of human and animal vaccines using avirulent Salmonella vector systems. Three-plus years experience in molecular biology, preferably working with bacterial or viral pathogens, is required. Research experience in microbial genetics, immunology, and animal science, plus familiarity with the pharmaceutical or veterinary industry, GLP, are a plus.

Excellent benefits package. Send résumés in confidence to: Darleen Phillips, MEGAN Health, Inc., 3655 Vista Avenue, St. Louis, MO 63110. FAX: 314-776-3317. MEGAN Health is an Equal Opportunity Employer.

NMR FACILITY MANAGER

The Division of Biological Sciences at the University of Chicago invites applications for Manager of NMR spectrometers in a new Magnetic Resonance Spectroscopy User Facility for multidimensional NMR spectroscopy of bio-macromolecules. Applicants should have a Ph.D. with experience in the use of NMR spectrometers and a working knowledge of multidimensional NMR and design of pulse sequences. Responsibilities will include instrument maintenance and instruction of NMR methods at all levels. It is expected that the Manager will interact with user groups to facilitate research. The successful applicant will have the opportunity to develop innovative NMR methods for which spectrometer time will be made available. The 12-month salary will be highly competitive and commensurate with experience. Applicants should send curriculum vitae, list of publications, and copies of salient publications and arrange to have three letters of reference forwarded to: Professor Michael A. Weiss, Department of Biochemistry and Molecular Biology, 920 East 58th Street, Chicago, IL 60637 by October 1, 1997. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

Fox Chase Cancer Center has an opening for a Research Associate in the Department of Pathology to aid in the development of a molecular oncology laboratory. This position involves clinical and assay development and transnational research in the application of tumor markers to diagnosis and management of premalignant and malignant conditions. Work will involve both hematologic and solid tumors. Candidates with a Ph.D., extensive molecular biology experience with a background in cancer genetics are encouraged to apply. Send cover letter and three references to: Dr. Robin H. Edwards, Department of Pathology, Fox Chase Cancer Center, c/o HR Office, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION IN ENVIRONMENTAL MEDICINE AND TOXICOLOGY UNIVERSITY OF ROCHESTER

The Department of Environmental Medicine at the University of Rochester Medical Center invites applications for a tenure-track position to be filled at the ASSISTANT or ASSOCIATE PROFESSOR level. The candidate's research interest should be in the general area of steroid hormone receptor-mediated signal and transduction processes. The Medical Center has recently announced plans for a major expansion of research activities and facilities focusing on the areas of aging and development, cancer, and vaccine biology and immunology. Applicants whose research interests are also related to these areas are particularly encouraged to apply. The successful candidate is expected to maintain an independent research program and participate in the graduate program in toxicology that is administered by the Department, Review of applicants will begin immediately and will continue until the position is filled. Applicants should send their curriculum vitae, a statement of research interests and goals, and references to: Dr. Thomas A. Gasiewicz, Chair, Faculty Search Committee, Department of Environmental Medicine, University of Rochester Medical Center, Box EHSC, 575 Elmwood Avenue, Rochester, NY 14642. For information about the Department, see website: http://www. envmed.rochester.edu.

The University of Rochester is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.

POSTDOCTORAL POSITIONS available for biochemists/biophysicists to work on the following projects: (i) Molecular interactions of amyloid beta-protein of Alzheimer's disease; (ii) Folding of recombinant prion protein and molecular basis of prion diseases; (iii) Molecular mechanisms of the chaperone action of alpha-crystallin and related heat shock proteins. Experience in protein echemistry, protein-protein and/or protein-membrane interactions, and biophysical/spectroscopic methods required. Background in molecular biology would be an asset. Send curriculum vitae to: Dr. W. K. Surewicz, Department of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. E-mail: wks3@pop.cwru.edu.

SENIOR SCIENTIST

Candidates should have a major emphasis in biochemistry, Ph.D. preferred. Experience necessary in the following areas: peptide synthesis, purification, characterization, bioorganic syntheses, and general analytical chemistries, including spectroscopy and calorimetry experiments.

This is an opportunity to join a rapidly growing and dynamic research and development support facility, dedicated to providing state-of-the-art analytical services to the biotechnology industry. Salary is commensurate with experience and background; excellent benefits package offered. Send résumé and cover letter to: Director of Personnel, 911 East Leigh Street, Suite G-19, Richmond, VA 23219. FAX: 804-648-2641; e-mail: cbi@i2020.net.

Two RESEARCH COORDINATOR POSITIONS available immediately to study receptors, G-proteins, and ion channels involved in sensory transduction in vertebrate taste cells (Nature 381:796, 1996; Nature 376:80, 1995; Nature 376:85, 1995; Nature 376:85, 1995; Nature 376:80, 1995; Nature 376

Position open to study the role of the PLZF transcription factor in leukemogenesis and normal myeloid development, including identification of target genes. (See Blood 85:1083, 1995; Outogene 12:323, 1996; Blood 90:489, 1997.) Experience in cDNA cloning and PCR-based subtractive techniques preferred. Please send curriculum vitae and three letters of reference to: Jonathan D. Licht, M.D., Associate Professor, Brookdale Center for Developmental and Molecular Biology and Department of Medicine, Box 1126, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-860-9279; e-mail: jlicht@smtplink.mssm.edu.

POSITIONS OPEN



DIRECTOR FOR LATIN AMERICA AND THE CARIBBEAN

The Biodiversity Support Program (BSP), a consortium of World Wildlife Fund (WWF), The Nature Conservancy (TNC), and the World Resources Institute (WRI), seeks a Director to plan, direct, and oversee all BSP activities for the Latin America and Caribbean region. The Director will be responsible for management of Mexico and Central America projects and identifying new areas for BSP involvement in Latin America and the Caribbean. The position requires a Master's degree plus seven years of experience in natural resource management, international development, or related field and demonstrated success in developing and managing complex conservation projects. Fluency in both English and Spanish required. The position is based in Washington and involves frequent travel to the region. AID experience a plus.

Only applicants selected for an interview can be contacted. Please send cover letter and résumé by mail to: World Wildlife Fund, Human Resources Department 586, 1250 24th Street, N.W., Washington, DC 20037. No FAX or telephone inquiries please. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL TRAINING IN HUMAN BEHAVIORAL NEUROIMAGING

Postdoctoral training is offered in applications of advanced imaging techniques to human behavioral neuroscience. Synergistic application of multiple imaging methods is emphasized. On-site techniques include positronemission tomography, magnetic resonance imaging (functional and anatomical), event-related electrical potentials, and transcranial magnetic stimulation. Training will primarily focus on functional mapping of language in the human brain and formal modeling of functional connectivity and of task-induced (system) circuitry. A secondary focus will be modeling the imaged activations resulting from transcranial magnetic stimulation.

A one-year training position is available, to begin on or after September 1, 1997. Doctoral degree in basic neuroscience, psychology (experimental, neuro, or cognitive), or medicine is required. Applicants with medical degrees must have residency training in neurology, neurosurgery, or psychiatry.

or psychiatry.

Apply to: Peter T. Fox, M.D., Director, Research Imaging Center, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-6240, USA. FAX: 210-567-8152. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT SPECIALISTS

Two positions exist to study the receptors. Individuals must have Master's degree with Ph.D. preferred and be experts in enzyme chemistry, molecular biology, and DNA sequencing; skilled in PCR methodology; and have tissue culture expertise. Knowledge of receptor literature expected. Salary range: \$32,556 to \$37,284 per annum, depending on experience and qualifications. Send résumé, description of research experience, and bibliography by September 26, 1997, to: Dr. Daniel E. Koshland, Jr., University of California, Virus Laboratory, 229 Stanley Hall #3206, Berkeley, CA 94720-3206. The University of California is an Equal Opportunity/ Affirmative Action Employer.

PRINCETON UNIVERSITY. The Center for Ultrafast Laser Applications seeks a TECHNICAL LEADER for its shared Laser Facility. Responsibilities include maintaining facility lasers, designing optical systems, and organizing grant proposals. The ideal candidate is a Ph.D. in chemistry, physics, or egineering with experience in optics, laser systems, and fast electronics. A willingness to pursue emerging laser technologies is essential, as is an interest in helping to train students and industrial scientists. Send curriculum vitae and three letters of recommendation to: Professor Warren, Department of Chemistry, Princeton University, Princeton, NJ 08544. Princeton is an Equal Employment Opportunity/Affirmative Action Employer.

DIRECTOR, VACCINE RESEARCH CENTER

The National Institute of Allergy and Infectious Diseases and the National Cancer Institute, National Institutes of Health (NIH) are recruiting for the position of Director, Vaccine Research Center (VRC). The goal of the VRC will be to develop an effective HIV vaccine through the integration of modern immunological science with a detailed understanding of the pathogenesis of HIV infection, development of immunogens and vectors, and new approaches to vaccination.

The Director will have responsibility for directing a multidisciplinary research program ranging from basic and clinical immunology and virology through vaccine design and production of an HIV vaccine. Applicants must have earned an M.D. or doctorate degree in biomedicine, virology, immunology or related field and have experience with HIV/AIDS, vaccine development and outstanding stature and reputation in the scientific community in the areas of immunology and/or virology. Further qualifications include: experience as a scientific research administrator in the virological, immunological and/or clinical aspects of infectious diseases in a laboratory and/or clinical research setting and knowledge of medical research operations within the Federal Government, universities and nonprofit research institutions, industry, and in an international setting. Annual salary range up to \$148,400. Recruitment bonus up to 25% of base pay may be available. Persons interested in this position may call Dr. John McGowan, Deputy Director, NIAID at (301) 496-9677. For more information on the application process, please contact Lynn Hellinger at: 301-496-9686. Applicants should submit either a curriculum vitae or resume by September 12, 1997, to:

Ms. Lynn C. Hellinger, Director, Office of Human Resources Management NIAID, Building 31/Room 7A20
31 Center Drive, MSC-2520; Bethesda, MD 20892-2520

NIH is an Equal Opportunity Employer

Program Officer Earth Sciences & Resources

The NATIONAL RESEARCH COUNCIL. (NRC) is seeking a Program Officer for its board on Earth Sciences and Resources (BESR). Responsibilities include assisting in the production of BESR committee reports related to science and technology policy, interacting with government and private sponsors, and organizing and reporting on meetings of the committees. Requires a Ph.D., preferably in geoscience (geology, geophysics, geochemistry, or other Earth science), one year related experience, demonstrated ability to review and analyze technical literature and excellent written and oral communication skills. Please send resume and other supporting materials in confidence to: NRC, BESR, HA 372 (CS), 2101 Constitution Avenue, NW, Washington, DC 20418. E-mail: besr@nas.edu. (For more information about the NRC, see our website at http://www.nas.edu/.) EOE.

Assistant Product Line Manager

- Axon Instruments, Inc., the leader in design and manufacture of instrumentation & software for electrophysiology & biophysics, is looking for a bright, motivated person to be the Assistant Product Line Manager for neurosurgical devices. Our neurosurgical product line includes an
- intraoperative electrophysiology system for stereotactic functional neurosurgery, a micropositioner and intracranial depth electrodes. We are also developing movement monitors for clinical use. It is Axon's intention to focus resources on the development of promising additions to our neurosurgical product line.
- The Assistant Product Line Manager will provide support to the Product Line Manager. Duties will include marketing research, including literature searches, interviews with neurosurgeons and observations of surgical procedures, interacting with engineering teams, troubleshooting complex technical problems for customers and demonstrating products at scientific meetings
- Requirements: Ph.D. or Master's degree in neurophysiology or related discipline with expertise in electrophysiology. Experience in extracellular single-unit electrophysiology desirable. Must possess excellent verbal communication and writing skills, be well organized, detail-oriented
- and enjoy performing multiple tasks in a team-oriented environment. Familiarity with the development of medical devices in a regulated manufacturing environment would be an advantage.
- Axon Instruments offers a technologically innovative atmosphere, opportunities for professional growth, a competitive salary and an attractive benefits package. Please send your cover letter and resume to: Axon Instruments, Inc., Attn: Andrew L. Blatz, Ph.D., Product Line Manager,
- Neurosurgical Devices, 1101 Chess Drive, Foster City, CA 94404, Fax: (650) 571-9500
- Email: andyb@axonet.com.

and workshops.

Principals only EOE/AA

Axon Instruments, Inc.

POSITIONS OPEN

MEDICAL ISSUES RESEARCH ANALYST

Major midwest law firm is seeking applicants for the position of Research Analyst. Duties include: medical literature and medical records review and analysis; preparation and communication to non-scientists of analyses of medical issues. Position may require some travel. This is a high intensity position which emphasizes practical application of scientific knowledge. The position requires a result-oriented and self-motivated individual.

This position requires an outstanding academic record, a graduate degree in biological, life, or biomedical sciences. A working knowledge of pharmacology and/or epidemiology is preferred. Excellent communication skills, both verbal and written, are essential. No legal education or experience required.

Please send a letter of application, complete college transcripts, a personal résumé, and references to:

Employment Supervisor Shook, Hardy & Bacon, L.L.P. One Kansas City Place 1200 Main Street Kansas City, MO 64105-2118

POSTDOCTORAL POSITION

Postdoctoral position(s) available immediately to study several aspects of human and viral DNA replication. Available projects include: mechanisms of initiation of DNA replication, protein-protein interactions involved in the DNA replication process, and novel human cellular factors required for papillomavirus DNA replication in vitro. A strong background in protein purification, biochemistry, and molecular biology is important. Send curriculum vitae and names, addresses, e-mail addresses, and telephone numbers of three references to:

Thomas Melendy, Ph.D.
Department of Microbiology
210 Biomedical Research Building
SUNY School of Medicine and Biomedical Sciences
Buffalo, NY 14214
FAX: 716-829-2158

Research Foundation of SUNY is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS MOLECULAR CELL BIOLOGY

Available immediately, NIH-funded postdoctoral positions in the Department of Pediatrics, Tufts University School of Medicine for: 1) Developmental Biology Program to study mRNA targeting in intestinal epithelial cells as an alternative pathway for protein sorting (with Richard Grand, M.D.). 2) Pathobiology Program to study the molecular/cellular physiology of genetic diseases (cystic fibrosis and ADPKD) affecting liver function (with Douglas Jefferson, Ph.D.). Experience in techniques of molecular and cellular biology required. Applicants must have doctoral degree and U.S. citizenship or permanent resident status. Please send a curriculum vitae and names of three references to: Dr. Richard Grand, Chief, Division of Pediatric Gastroenterology and Nutrition, New England Medical Center, 750 Washington Street, Box 213, Boston, MA 02111-1533. FAX: 617-636-8718; e-mail: richard.grand@es.nemc.org.

UNIVERSITY OF CALIFORNIA, IRVINE SCHOOL OF BIOLOGICAL SCIENCES ACADEMIC POSITION ANNOUNCEMENTS

Occasional openings for academic researchers, post-doctorates, specialists, and lecturers in our Departments of Developmental and Cell Biology, Ecology and Evolutionary Biology, Molecular Biology and Biochemistry, and Psychobiology, are posted on our website: http://www.bio.uci.edu/. Inquiries may also be sent by FAX: J. Swenson, School of Biological Sciences, UC Irvine,

714-824-7407.

UCI is an Equal Opportunity Employer committed to excellence

POSTDOCTORAL POSITION available to study cellular mechanisms in the turtle spinal cord that control rhythmic limb movements. Experience in electrophysiology required. Knowledge of whole-cell recording and histological techniques helpful. Send curriculum vitae, statement of research interests, and names of three references to: Scott Currie, Ph.D., Department of Neuroscience, University of California, Riverside, CA 92521. E-mail: currie@mail.ucr.edu; website: http://cnas.ucr.edu/~neuro/currie.htm. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



EMORY UNIVERSITY SCHOOL OF MEDICINE

THE EMORY FRAGILE X SYNDROME PROGRAM has immediate openings for dedicated and enthusiastic POSTDOCTORAL ASSOCIATES to join a mutidisciplinary and highly interactive team investigating this inherited triplet-repeat mental retardation disorder. A broad research focus investigates issues of genetics, biochemistry, experimental behavior, neurobiology, and gene regulation. The following seven Emory laboratories participate:

Yue Feng, Ph.D.: The role of the FMR1 protein in neuronal protein synthesis. Experience with mammalian cell culture and general molecular biology techniques required.

Judith L. Fridovich-Keil, Ph.D.: Yeast molecular biology of the FMR-related of proteins. Experience with standard molecular biological techniques and with *S. cerevisiae* preferred.

Steven Hersch, M.D., Ph.D.: Cellular and subcellular localization of FMR1 and related proteins and neuropathology of mouse models of fragile X syndrome. Experience with immunochemistry and light/electron microscopy required.

Danny Reines, Ph.D.: Transcriptional regulation of the FMR1 gene and the consequence of repeat expansion. Experience with nuclear runon, cell culture, and/or protein-DNA interaction required.

Stephanie L. Sherman, Ph.D.: Factors that influence the susceptibility of the initial FMR1 mutation leading to instability of the CGG repeat. Experience with small-pool PCR and/or microsatellite/biallelic polymorphisms desirable.

Stephen T. Warren, Ph.D.: Molecular genetics and murine behavioral studies for fragile X syndrome. Experience in embryonic stem cell technology and/or molecular genetics/biochemistry required.

Keith Wilkinson, Ph.D.: Protein chemistry and structural biology of the FMR1 and related proteins. Experience with protein expression, purification, and folding required.

Emory University is a private institution located in suburban Atlanta with a modern college campus contiguous to the Medical Center, a hospital system serving a population base of over 3 million, an outstanding faculty, a highly-competitive student body, and a generous endowment. Applications will be accepted until the positions are filled. For general information, visit the website: http://www.cc.emory.edu/WHSC/schools.html or e-mail: fragilex@listserv.emory.edu.

Applicants should have M.D. and/or Ph.D. degrees and relevant experience. Applications, including curriculum vitae, a statement of experience, and the names of three references, should be sent to: Dr. Stephen T. Warren, Program Director, Emory University School of Medicine, 4035 Rollins Research Center, 1510 Clifton Road, Atlanta, GA 30322.

Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

A POSTDOCTORAL RESEARCH ASSOCIATE is immediately sought to aid in the study of thermodynamics, kinetics, and biomechanics of cell migration, adhesion, and/or thermal damage of biomembranes. An appointment for one year at 100 percent time is initially offered with the possibility of an additional year depending upon the availability of funds. The ideal candidate would have a Ph.D. in chemical engineering, physics, or physical chemistry. Salary will be commensurate with educational background and experience. Please send a résumé and the names of three references to: Professor John Georgiadis, University of Illinois at Urbana-Champaign, Department of Mechanical and Industrial Engineering, Room 140 Mechanical Engineering Building, 1206 West Green Street, Urbana, IL 61801. Telephone: 217-244-7578; FAX: 217-333-1942; e-mail: georgia@staff.uiuc.edu.

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATES MACROMOLECULAR CRYSTALLOGRAPHY CELL MICROPHYSIOMETRY/RECEPTOR BIOLOGY

Department of Biochemistry and Biophysics Department of Pathobiology Texas A&M University

Research position available for **Dr. James Sacchettini's** laboratory in X-ray crystallographic studies on proteins of the immune system. Candidates should have a solid background in macromolecular crystallography. Experience in other aspects of structural biology, protein chemistry, drug design, or molecular biology is a plus.

Research position available in cell microphysiometry with **Dr. Scott Linthicum.** Candidates should have Ph.D. in a relevant field. Experience in cell physiology, tissue culture, receptor biochemistry/pharmacology desired.

Research Technical position available immediately in hybridoma, monoclonal antibody technology, and cell culture. M.S. or Ph.D. in cell biology or immunology with experience is required.

For all positions submit curriculum vitae, list of publications, and three references to: Dr. D. Scott Linthicum, Department of Pathobiology (TVMC), Texas A&M University, College Station, TX 77843-4467. Telephone: 409-845-6982; FAX: 409-845-6980; email: s-linthicum@tamu.edu.

POSTDOCTORAL RESEARCHER

The Marine Life Research Group/California Cooperative Oceanic Fisheries investigations of the Scripps Institution of Oceanography invites applications for a Postdoctoral Investigator in California current studies for one or two years. CalCOFI is a 48-year-old interdisciplinary investigation of the biology, chemistry, physics, and pa-leoecology of the California current system. The field of study is open, but the proposed research should be related to CalCOFI objectives, and may include the analysis of existing data or samples. A Ph.D. is required. Contact Mary Olivarria at Telephone: 619-534-2868 or email: molivarria@ucsd.edu for an information package. Submit curriculum vitae, statement of proposed research, and names and addresses of three references including their individual specialties to: Dr. Michael M. Mullin, Director, Marine Life Research Group, Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0227 by 31 October 1997. Salary will be commensurate with experience and based on UC salary scales; benefits are included. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN CELLULAR AND MOLECULAR NEUROBIOLOGY. The Department of Neurobiology has Postdoctoral positions available to study various aspects of molecular, cellular, and developmental neurobiology. Some major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth, and nerve regeneration. Specific studies include: structure-function analysis of adhesion molecules; analysis of overexpression, mutation, or deletion of adhesion molecules in cells and animals; analysis of genes such as Hox and Pax, that control the expression of adhesion molecules, and their subsequent roles in the formation of morphogenetic pathways; and the gene programs activated by adhesion molecule binding. Applicants should have a strong background in cellular and/or molecular biology. Send curriculum vitae and three letters of reference to: Dr. Gerald M. Edelman, Chairman, Department of Neurobiology, The Scripps Research Institute, 10550 North Torrey Pines Road, SBR14, La Jolla, CA 92037. Affirmative Action/Equal Opportunity Employer.

THE SCRIPPS RESEARCH INSTITUTE

POSTDOCTORAL POSITION for studying *in vitro* MHC/TCR/CD4-CD8 interactions using recombinant molecules. Experience in molecular biology and biochemistry are required. Plasmon resonance technology and site-directed mutagenesis knowledge would constitute a plus. Our group has published the first structures of a murine TCR and TCR/MHC complex (see *Science* 274: 145; *Nature* 384:577; *J. Exp. Med.* 183:2087). Highly motivated applicants only. Send curriculum vitae and names of three references to: Luc Teyton, M.D., Ph.D., Department of Immunology, IMM23, Room 301, 10550 North Torrey Pines Road, La Jolla, CA 92037. Telephone: 619-784-2728; FAX: 619-784-8805; e-mail: lteyton@scripps.edu.

through diversity

University of California, San Francisco SURGICAL RESEARCH LABORATORY

A new research laboratory at San Francisco General Hospital, focusing on trauma-related research at both the basic and applied levels, is seeking qualified applicants for several openings. The Research Center features both PhD and MD trained scientists investigating various aspects of cell, tissue and organ injury. Specific areas of research interests include:

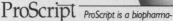
- Characterizing relevant changes in gene expression, both in vitro and in vivo, that result from a variety of stressors, including hyperthermia, oxidative injury, and inflammatory cytokines;
- Examining the possible synergism or antagonism of multiple traumas on cell signaling events and gene expression;
- Studying the effects of trauma on immune cell function;
- · Exploring the impact of cellular defense programs on the host response to traumatic and surgical injury; and
- Developing clinically relevant models to understand and treat multi-organ dysfunction syndrome (MODS) at the cellular and organ levels.

ASSISTANT PROFESSOR (in Residence) sought with experience in molecular biology and research interests focused on the immune system/inflammatory cytokines. The ideal candidate, with a PhD or MD and postgraduate training, will have experience in examining patterns of gene expression, transcriptional activation and an interest in transgenic and gene knockout technologies. The new faculty member will be provided with ample lab space, generous start-up funds for supplies, and a staff research associate.

POSTDOCTORAL POSITIONS available working with the current four (4) faculty members (Drs. Welch, H. Harris, J. Horn, & D. Young) currently pursuing those research interests described above.

Submit curriculum vitae along with the names, addresses and telephone numbers of three (3) references to: William J. Welch PhD, Ellsbach-Richards Professor of Surgery & Director of Surgical Research at SFGH, UCSF Box 0807 San Francisco, CA, 94143.

UCSF is an AA/EO employer. The University undertakes Affirmative Action to assure Equal opportunities for under utilized minorities and women, for persons with disabilities, and for Vietnam-era vets and special disabled vets.



ceutical company focused on the discovery and commercialization of small-molecule drugs for regulation of gene transcription factors and other mediators that are relevant to cancer, inflammatory disease and metabolic disorders. We are currently recruiting a key position in the Biochemistry Department. The successful candidate will be part of interdisciplinary teams aimed at discovering therapeutically useful inhibitors of enzymes that play pathogenic roles in human disease.

Biochemist

Candidates must have a Ph.D. in Biochemistry or Chemistry and two or more years post-doctoral experience in protein biochemistry. This scientist will have principle responsibility for the purification and characterization of targeted enzymes.

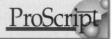
Candidates must have a demonstrated ability to develop and implement purification schemes for complex, multi-subunit enzymes in mammalian cell culture and tissues. In addition, candidates must possess strong analytical skills, experience in enzyme assay development, and an understanding of enzyme kinetics. The ability to work as part of a team is critical to success in this position.

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

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

No phone calls, please

An equal opportunity employer



Aeiveos Sciences Group



ASG is a biotechnology company focused on understanding the molecular mechanisms of aging and to develop novel therapeutic targets to reduce the negative impacts of aging on human health. We are looking for talented and innovative scientists interested in seeking challenging career path. The level of appointment will depend upon your experience. Strong fundamental understanding of the aging and related fields will be a definite plus. Candidates with prior experience in biotechnology or industrial research and development setting will be preferred. Please refer to the reference code in your response.

Project Leader: Gene Expression

Ph.D. Scientist with postdoctoral experience and five years subsequent managerial experience required to lead a growing group of scientists and research associates. Broad based knowledge of Molecular Biology, Genetics, or related fields with experience in the areas of differential gene expression, tissue culture, expression analysis and cDNA library construction. You will be responsible for planning and directing functional genomics studies during aging. You should also be familiar with the recent advances in the relevant technology for gene expression analysis. Scientists applying for this position should have a proven track record of scientific accomplishment, must strive for excellence, have ability to interact with multidisciplinary team of scientists and be people smart. (Reference code: PL-DGE)

Scientist/Sr. Scientist: Gene Expression

Ph.D. Molecular Biology or related fields with 0-3 years of postdoctoral experience in the areas of gene expression analysis, cDNA construction, and/or tissue culture techniques. You must have an accomplished publication record and be willing to work in a team environment of high throughput setting. You will contribute to our efforts in differential gene expression in aging and the related aspects of the oxidative stress response. (Reference code: SC-DGE)

Scientist/Sr. Scientist: Genomic Analysis

Ph.D. Molecular genetics or related fields with 0-3 years of relevant postdoctoral experience as evidenced by the published work in peer-reviewed journals. You should be familiar with current technologies for genotype analysis of the complex traits and/or have prior experience in a high throughput environment. (Reference code: SC-CNT)

Qualified candidates should submit their CV for review to: Human Resources (Reference Code), ASG, PO Box 31083, Seattle, WA 98103-1083. EOE

POSITIONS OPEN

POSTDOCTORAL POSITION EUNICE KENNEDY SHRIVER CENTER/ HARVARD MEDICAL SCHOOL

Postdoctoral position in developmental neuroscience available immediately for projects on the mammalian visual system. The research focuses on retinoic acid-related processes in normal eye and brain development, and on several aspects of developmental defects and diseases of the visual system. The work involves cell-biological, biochemical, and molecular-biological techniques. Recent graduates with strong interest in developmental neurobiology and some training in the mentioned techniques should send a letter stating interests, curriculum vitae, and names of three references to: Ursula Drager, Eunice Kennedy Shriver Center for Mental Retardation, Inc., 200 Trapelo Road, Waltham, MA 02254.

The Shriver Center is an Affirmative Action/Equal Opportunity Employer.

SENIOR POSTDOCTORAL FELLOWSHIP position open immediately for highly motivated scientist to study proteome approaches to disease states of the eye, as well as impact of contact lenses on eve biochemistry. A Ph.D. is required with expertise in all of the following areas: biological mass spectrometry including ESI-MS and MALDI-TOF-MS, protein biochemistry and isolation, 2D-gel electrophoresis, and capillary electrophoresis, CE-MS and HPLC-MS. The initial appointment is for one year with possibilities for further extension. Salary is negotiable and based on experience. Send curriculum vitae and three letters of recommendation to: Dr. Stephen Naylor, Director of the Biomedical Mass Spectrometry Facility, Guggenheim CL, Mayo Clinic/Founda tion, Rochester, MN 55905, USA. Review of all applications will begin immediately. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

POSTDOCTORAL FELLOWSHIPS

Positions are available: (1) to study the mechanisms of transcriptional activation or repression of cellular genes by steroid hormone receptors and (2) to identify steroid-regulated genes that control embryo-uterine interactions during implantation. Ph.D. with a strong background in molecular and cellular biology is required. Send curricular vitae and the names and addressess of three references to: Dr. Milan Bagchi (for position 1) or Dr. Indrani Bagchi (for position 2), Population Council, Center for Biomedical Research, 1230 York Avenue, New York, NY 10021. An Equal Opportunity /Affinnative Action Employer/Minorities/Females/Disabled/Veterans.

POSTDOCTORAL POSITION is available immediately to study the structure, function, biosynthesis, and pharmacology of bacterial and human copper amine oxidases in a University of California, San Francisco laboratory. By oxiding diamines and polyamines, the human oxidases have been linked to numerous cellular processes; e.g., cancer, allergic response, ischemia, tissue differentiation, wound healing, apoptosis, second messenger. Studies involve normal and mutant forms chosen on the basis of X-ray structures. Protein biochemistry experience is essential. Molecular biology experience would be beneficial. Curriculum vitae and reference letters to: Dr. William S. McIntire, VA Medical Center (151-S), 4150 Clement Street, San Francisco, CA 94121.

HYPERTENSION AND VASCULAR RESEARCH

POSTDOCTORAL POSITION to study molecular pharmacology of the perivascular nerve calcium receptor is available. Experience in vascular pharmacology, molecular biology, and signal transduction desirable. U.S. Citizeus/permanent residents preferred. Send curriculum vitae, summary of experience and plans, and three references by September 5th to: R. D. Bukoski, Ph.D., 8.104 Medical Research Building, University of Texas Medical Branch, Galveston Island, TX 77555-1065. E-mail: rbukoski@impol.utmb.edu. UTMB is an Equal Opporunity/Affinnative Action Employer.

POSTDOCTORAL FELLOWSHIP POSITION

Postdoctoral Fellowship position is available for studying cellular and molecular mechanisms of myocardial ischemia. Candidates must hold M.D. and/or Ph.D. degree and have experience with studies of signal transduction mechanisms and molecular biology techniques. Send letter of interest, curriculum vitae, and three letters of recommendation to: Roberto Bolli, M.D., Division of Cardiology, University of Louisville, Louisville, KY 40292. FAX: 502-852-6474. Equal Employment Opportunity/Affirmative Action.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE POSITION DUKE UNIVERSITY

Study the role of apoE in transgenic and cell-based models of neurodegenerative disease. Experience in protein and lipid biochemistry with an apritude for molecular biology is desired, but all strong candidates will be considered. Please send résumé, including names and telephone numbers of three references to: M.P. Vitek, Neurology, Box 2900, DUMC, Durham, NC 27710. Equal Opportunity Employer.

POSTDOCTORAL POSITION UNIVERSITY OF MICHIGAN

Available immediately to investigate the genetic and biochemical defects in cross-linked retinitis pigmentosa. Strong background in molecular and cell biology and/or genetics is essential. Competitive salary plus benefits. Self-motivated candidates with proven experience should send curriculum vitae, a statement of research accomplishments and long-term goals, and names of three references to: Anand Swaroop, Ph.D., Associate Professor, Ophthalmology and Human Genetics, Kellogg Eye Center, University of Michigan, 1000 Wall Street, Ann Arbor, MI 48105. FAX: 313-647-0228; e-mail: swaroop@umich.edu.

The University of Michigan is an Equal Opportunity Employer.

POSTDOCTORAL POSITION is available to study phosphoinositide-protein interactions and the role of lipid kinases in intracellular signaling. Candidates should possess a Ph.D. and/or an M.D. degree but less than five years of postdoctoral experience. U.S. aitzenship is not required. Individuals experienced in gene cloning/mutagenesis/expression techniques with interest in protein structure-function analysis should send curriculum vitae and the names of three potential references to: Dr. Tamas Balla, Endocrinology and Reproduction Research Branch, National Institutes of Health, 49 Convent Drive, Building 49, Room 6A35, Bethesda, MD 20892-4510. NIH is an Equal Opportunity Employer. Deadline for responses is September 15, 1997.

NIH-funded POSTDOCTORAL POSITIONS in Cardiovascular Biology starting immediately. The projects focus on calcium homeostasis and the regulation of cardiac function in transgeneic mice using molecular, cellular, biochemical, and physiological techniques. Candidates must possess a Ph.D./M.D. degree and a strong background in either molecular biology, biochemistry, or physiology. Interested candidates should send their curriculum vitae and three references to: Litsa Kranias, Ph.D., Department of Pharmacology and Cell Biophysics, University of Cincinnati, 231 Bethesda Avenue, P.O. Box 670575, Cincinnati, OH 45267-0575. FAX: 513-558-2269; e-mail: kraniaeg@email.uc.edu.

POSTDOCTORAL POSITION available immediately to study the biochemistry of Alzheimer's disease and prion-related diseases. Expertise in biochemical purification, molecular biology, immunohistochemistry, transgenic mice, and conformational studies of proteins requested. Please send curriculum vitae with names of three references to: Dr. Thomas Wisniewski, Department of Neurology, New York University Medical Center, 550 First Avenue, New York, NY 10016. FAX: 212-263-6751; e-mail: thomas.wisniewski@mcfpo.med.nyu.edu.

POSTDOCTORAL POSITION available immediately for the study of (1) RB-associated factors involved in regulation of transcription and the cell cycle; and (2) effect of HPV on signaling. Experience with regulation of gene expression and signal transduction are required. Please send curriculum vitae to: Dr. Robert Chiu, UCLA School of Medicine/School of Dentistry, 54-140 CHS, Los Angeles, CA 90095-1782. FAX: 310-825-0921. UCLA is an Equal Opportunity/Affinnative Action Employer.

POSTDOCTORAL POSITION available immediately to study the role of the male reproductive tract in HIV disease. Experience in RT/PCR, cloning, and sequencing required; knowledge of histology/cytology preferred. Send curriculum vitae, names of three references, and a brief description of research experience to: Dr. Ann Kiessling, Laboratory of Reproductive Biology, Department of Surgery, Beth Israel Deaconess Medical Center, Harvard, 4 Blackfan Circle, Room 243, Boston, MA 02115.

POSITIONS OPEN

POSTDOCTORAL FELLOW ESTROGEN ACTION/DRUG DISCOVERY

A Postdoctoral position is available immediately to study the molecular pharmacology of the estrogen receptor. The successful candidate, who should have an interest in drug discovery, will join a collaborative effort engaged in the identification and characterization of novel estrogen receptor ligands. Applicants with a strong background in transcription and/or transgenic animal technology are encouraged to apply.

Those interested should send a curriculum vitae and names and addresses of three referees to:

Dr. Donald P. McDonnell, Ph.D.
Department of Pharmacology and Cancer Biology
Box 3813
Duke University Medical Center
Durham, NC 27710

POSTDOCTORAL POSITION

A Postdoctoral Fellowship is available for two years to develop Java-based courseware and courseware authoring tools to be used in teaching the productive use of various Internet-based data and computer resources in common use by molecular biologists. This appointment is part of a new bioinformatics program being established at The Burnham Institute in collaboration with the San Diego Supercomputer Center and the University of California, San Diego. Applicants should hold a Ph.D. in computer science or in molecular biology and be a competent Java programmer. Please send a résumé and the names and e-mail addresses of three referees to: Professor Philip Bourne, San Diego Supercomputer Center, P.O. Box 85608, San Diego, CA 92186, USA. FAX: 619-534-5113; e-mail: bourne@sdsc.edu.

POSTDOCTORAL POSITION in environmental chemistry. The University of Denver announces the award of a Camille and Henry Dreyfus Foundation fellowship (\$35,000 per annum for each of two years). The program encourages well-educated, highly trained, and qualified chemists and chemical engineers into environmental science. The fellow is expected to have a Ph.D. in chemical sciences or engineering but not already to be expert in environmental science, and need not be a recent degree recipient. For full consideration apply to: Dr. D. H. Stedman, Chemistry Department, University of Denver, CO 80208. E-mail: dstedman@du.edu before September 20, 1997, including names of two scientists who will provide a reference upon request.

THE SCRIPPS RESEARCH INSTITUTE

POSTDOCTORAL POSITION to study signal transduction pathways regulating cell growth and migration involving the FAK and Pyk2 protein-tyrosine kinases (see Nature 372:786; MCB 16:5623; MCB 17: 1702; JBC 272:13189). Experience in cell culture and molecular biology is required. Candidate must have strong publication record and be a U.S. citizen or pennanent resident. Send curriculum vitae and names of three references to: David Schlaepfer, Ph.D., Department of Immunology IMM26, 10550 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-784-8227; e-mail: dschlaep@scripps.edu.

POSTDOCTORAL FELLOW

San Francisco State University is seeking a Postdoctoral Fellow to study the molecular basis of HIV latency using assays aimed at viral transcription. The candidate should have a Ph.D. in molecular biology or a related field. Expected start date is October 1, 1997. Send curriculum vitae to: Human Resources Office, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132 with Job # 4619.79 and your social security number by September 1, 1997. For more information, see website: http://lewis.sfsu.edu/obr/obr.homepage.html.

JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL FELLOWSHIP in laboratory that identified loss of imprinting in cancer, as well as novel approaches to identifying tumor suppressor genes (*Nature* 362:747-749, 1993; *Science* 260:361-364, 1993; *PNAS* 93:3026-3030, 1996; *Nature Genetics* 15:181-185, 1997). Please send curriculum vitae, a description of research experience and goals, and names and addresses of three references to: Dr. Andrew P. Feinberg, Johns Hopkins University School of Medicine, Ross 1064, 720 Rutland Avenue, Baltimore, MD 21205.

RESEARCH SCIENTIST: TOXICOLOGIST/CHEMIST

Brown & Williamson Tobacco Corporation, an international multibillion dollar consumer products company, has an immediate opening for its Macon, GA facility within the Research & Development Department.

The candidate we seek must have the capacity to make meaningful contributions in a work environment characterized as fast-paced and constantly changing. The position requires a high degree of organization/planning; the ability to review and decipher large volumes of tobacco related literature and make responses that are scientifically defensible.

The successful candidate, for employment, will have demonstrated their capabilities and orientation for success through their academic, work and personal histories, and evaluation processes.

Candidates must have experience and demonstrated proficiency in the following:

- · A minimum of 5 years prior experience required.
- Computer literacy with databases, spread sheets, and word processing is required.
- Prior experience in a Toxicology contract lab preferred; and experience in health effects consulting firm, regulatory agency or industry preferred.
- A Ph.D. in Toxicology or other health effects related field required.

 Conditional relationships and the second relationships are related field required.
- Good verbal and written communication; math skills required.

Some job responsibilities would include but not be limited to the following:

- Develop and maintain technical expertise and awareness related to major smoking and health issues associated with environmental tobacco smoke (ETS) and smoke constituents.
- Provide analysis of research findings concerning investigator's interpretations, methodologies, and overall relevance to broader smoking and health issues.
- Monitor emerging ETS and smoking constituent research findings; develop an immediate response posture.
- Collaborate with other scientists to obtain technical input outside their area of expertise.
 - Provide technical support within their field of expertise to other projects and activities within the scientific & regulatory affairs department.

We offer a highly competitive compensation with excellent benefits.

Please fax or mail your resume along with recommendations and indicators of job criteria above to: T.E. Brown, Brown & Williamson Tobacco Corp., 2600 Weaver Road, Macon, GA 31298, FAX: 912/755-4033.

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STAFF SCIENTIST POSITIONS FOR RECENT DOCTORAL GRADUATES

Genaissance is a growing pharmacogenomics company committed to the discovery of personalized medicines by utilizing gene variants to develop novel therapeutic targets and clinically predictive gene profiles. We are seeking scientists who have recently completed (or are close to completing) doctoral studies.

Applications from candidates with experience in any of the following disciplines are welcome: Molecular Genetics, Pharmacology, Population Genetics, Cell Biology, Developmental Biology, Genetic Epidemiology.

The staff scientist will be involved in research and development in our technology programs. The individual must be highly motivated, have good organizational and communication skills, and posses computer proficiency.

This is an opportunity to join a fast growing biotechnology company for those interested in bypassing traditional postdoctoral fellowships. **Genaissance** offers an excellent compensation and benefits package commensurate with qualifications.

Interested candidates should consult our website (www.genaissance.com) and send their curriculum vitae to: Personnel Manager, Genaissance Pharmaceuticals, Five Science Park, New Haven, CT 06511 or FAX material to: (203)562-9377.

Genaissance is an Equal Opportunity Employer.



ASSISTANT/ASSOCIATE PROFESSOR

(2 positions)

Fisheries Oceanography

The Coastal Fisheries Institute (CFI) and the Department of Oceanography and Coastal Sciences (DOCS) at Louisiana State University invite applications for two (2) tenure-track positions at the rank of Assistant and/or Associate Professor. We seek a Fisheries Individual Based Modeler (IBM) with postdoctoral experience in development and application of theoretical and applied, life history, IBM techniques to aquatic populations, communities, food webs, and ecosystems including nutrients, plankton, fish, and their interactions. The successful candidate must be familiar with uncertainty analysis in ecological models and risk assessment, fisheries management, ecological effects of habitat availability/suitability, and statistical methods development for analyzing noisy biological/environmental data. We also seek a Fisheries Invertebrate Biologist with postdoctoral experience and training and expertise in the areas of shrimp and/or crab life history, ecology, behavior, predatorprey interactions, habitat selection, physiological ecology, and/or recruitment mechanisms. The successful candidate must also be familiar with population dynamics and management issues. Applicants must have a Ph.D. in Fisheries, Oceanography, or Marine/Ocean Science, an active extramural record of research excellence, and a nationally significant level of scholarly achievement. These positions include joint academic appointments within DOCS where tenure resides and where candidates will teach specialty courses and other service courses at the undergraduate/graduate level. Applicants should send a curriculum vitae, statement of future goals in research and teaching, and arrange for the delivery of three letters (for Assistant) and five letters (for Associate) of recommendation to: Richard F. Shaw, Director, CFI, Wetland Resource Building, Louisiana State University, Ref. #010006 & #008247, Baton Rouge, LA 70803-7503. Application review begins September 5, 1997, and will continue until candidates are selected. Position could be filled as soon as winter/spring 1998.

LSU is an Equal Opportunity/Affirmative Action Employer.



DEPARTMENT OF SURGERY & DEPARTMENT OF GENETICS STANFORD UNIVERSITY SCHOOL OF MEDICINE ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, PROFESSOR

The Division of Otolaryngology/Head and Neck Surgery and the Department of Genetics invites applications for a joint appointment of a Ph.D. director of the Liem Sioe Liong Molecular Biology Laboratory at the Assistant Professor (Research), Associate Professor (Research), or Professor (Research) level. The individual will direct and conduct independent research in pathogenesis of head and neck diseases.

Qualifications include the Ph.D. degree; completed postdoctoral fellowships in either genetics, molecular biology, tumor immunology, or cancer biology; advanced training with evidence of productivity in research; and a commitment to teaching. The candidate should have demonstrated research experience, with publications in peer-reviewed journals, and current independent research funding for Associate Professor (Research) and Professor (Research) candidates. Candidates at the Assistant Professor (Research) level do not need to have current independent research funding to apply.

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

Letters of inquiry with curriculum vitae and the four names and addresses of people familiar with the applicant's work should be sent to:

Willard E. Fee, Jr., M.D.
Edward C. and Amy H. Sewall Professor
Division of Otolaryngology/Head and Neck Surgery
Stanford University Medical Center
300 Pasteur, R-135 Edwards
Stanford, CA 94305-5328

Faculty Positions Department of Anatomy

Medical College of Virginia Virginia Commonwealth University

The Department of Anatomy at the Medical College of Virginia, Virginia Commonwealth University, invites applications for one tenure-track and one collateral position. We offer these positions at the Assistant Professor level and seek exceptional candidates pursuing imaginative cellular and molecular approaches in areas related to the Department's research interests, which are detailed in full on the Department's website (http://views.vcu.edu/ana). The successful candidates are expected to develop vigorous research programs with potential for extramural funding. Additionally, the successful candidates are expected to participate in both graduate and professional instruction.

An M.D. or Ph.D. degree and two or more years of productive postdoctoral research experience are required. Attractive salary and start-up packages commensurate with the candidate's qualifications and experience are available for each of these positions.

Applicants should send a curriculum vitae and statement of research interests, along with the names, addresses, and telephone and fax numbers of three referees by November 15, 1997, to:

Chairman of the Search Committee Department of Anatomy P.O. Box 980709 Richmond, Virginia 23298-0709

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

University of Western Ontario

Research Scientist and Tenure-Track Positions in Human Molecular Genetics

The University of Western Ontario, the London Teaching Hospitals, and their affiliated Research Institutes have recently established a Centre for Human Genetics. Its mandate is to coordinate research and teaching in human molecular genetics with emphasis on understanding the molecular basis for diseases and advancing their treatment. The Centre is seeking applications for four research scientists at various career stages. These include three tenure-track positions at the entry level of Assistant or Associate Professor and one senior research scientist based at the most appropriate hospital or research institute who will also hold a limited-term academic appointment in the Faculty of Medicine & Dentistry. Two tenure-track positions are joint between the Faculties of Medicine & Dentistry and Science and are part of the UWO Special Faculty Renewal Initiative. The third tenure-track position will be in the Department of Pharmacology & Toxicology, and candidates whose research area is Molecular Toxicology are also encouraged to apply.

Applicants must have a Ph.D. and/or M.D. degree, several years of post-doctoral or independent research experience, and a strong publication record in the field of molecular genetics. They are expected to develop an independent and externally funded research program and participate in teaching in the Honors Genetics Program and the Interfaculty Graduate Program in Molecular Biology. The area of genetics specialization is open.

Applications should be received by September 30, 1997, and include a curriculum vitae, three references, a description of research accomplishments, and future research plans. Applications and confidential letters of reference should be sent directly to: Appointments Committee, Centre for Molecular Human Genetics, c/o Dr. Jack Bend, Faculty of Medicine & Dentistry Research Office, Health Sciences Addition, Room H103, University of Western Ontario, London, Canada N6A 5C1.

Positions are subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and Permanent Residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

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UPCOMING 1997 SCIENCE CAREER FAIRS

Cambridge, MA on the MIT Campus 84 Massachusetts Ave., Stratton Building Student Center, 2nd Floor, La Salla Room

5 Sept.: 11 am - 4 pm 6 Sept.: 11 am - 3 pm

Palo Alto, CA

on the Stanford Campus Tresidder Memorial Union

3 Oct.: 11 am - 4 pm 4 Oct.: 11 am - 3 pm

To pre-register:

Please submit your résumé or CV via FAX: (202) 289-6742,or via e-mail: careerfairs@aaas.org. Indicate the career fair location for which you are submitting. Remember to bring multiple copies of your CV or résumé with you to the Career Fair; a copy will be necessary to gain admission to the hall. Admission to all of the events is FREE.

Do not contact MIT or Stanford directly. They are not responsible for organizing these events.



SCIENCE CAREER FAIRS

For more information call (202) 326-7018 SCIENCE Career Fair Information Online: www.sciencemag.org (Choose SCIENCE Professional Network from the menu)

CLINICAL AND BASIC SCIENCES RESEARCH OPPORTUNITIES

The Institute for Cellular Therapeutics (ICT) at Allegheny University of the Health Sciences is currently accepting applications for clinical and experimental research positions. The research focus is in the development of safe and effective bone marrow transplantation for the treatment of a number of disease processes. The laboratory has been fully established with Clinical Phase I Trials underway. The ICT has integrated and multidisciplinary programs in Immunology, Autoimmunity, Cell Imaging, Molecular Biology, Bone Marrow Processing, and Stem Cell Biology. Located in Philadelphia, the ICT has extensive research space, new instrumentation, and a competitive salary/benefit structure.

DIRECTOR OF CLINICAL TRIALS: Tenure-track academic appointment. You will coordinate and direct multi-center clinical trials involving bone marrow transplantation and cell-based therapies. Must have a demonstrated and sustained scientific activity through publications in peer-reviewed journals and receipt of external funding. U.S. citizen or permanent resident and eligible for a position on an NIH grant. M.D. or Ph.D. with previous experience.

ASSOCIATE/ASSISTANT PROFESSORS:

Tenure-track positions in the Immunology and Stem Cell Biology research programs. Candidates must have strong technical skills in their area of expertise, proven ability to obtain external research support, and publications in peer-reviewed journals. Excellent career opportunity to develop independent research program. U.S. citizen or permanent resident and eligible for a position on an NIH grant. M.D., Ph.D., or D.V.M. with equivalent experience.

RESEARCH ASSOCIATES & POSTDOCTORAL FELLOWS: Positions in Immunology, Molecular Biology, Bone Marrow Processing, Flow Cytometry, and Monoclonal Antibody Production/Purification for candidates with advanced technical expertise in area of specialization. *U.S. citizen or permanent resident* and eligible for a position on an NIH grant. B.S. or M.S. (Associates) or Ph.D., M.D., or D.V.M. (Fellows).

CLINICAL RESEARCH ADMINISTRA-TOR: Administrative management of multi-center Clinical Phase I Trials including fiscal management of clinical budget, personnel, data management, and regulatory compliance. Nursing degree with 7 years' related experience in clinical trials management.

CLINICAL NURSE COORDINATOR: Coordination, execution, and documentation of all clinical research studies within the Institute. You will ensure that appropriate protocols are used, process and maintain patient records and data, ensure compliance with internal/external regulatory agencies, generate reports, and ensure financial compliance within the clinical program. Nursing degree with 2–4 years' related experience. Please submit a CV and two letters of recommendation to:

Frances A. Chapman, Department Administrator, Institute for Cellular Therapeutics, Allegheny University of the Health Sciences, Broad & Vine, Mail Stop 490, Philadelphia, PA 19102



EOE/Affirmative Action Employer.



SIMON FRASER UNIVERSITY

Burnaby, British Columbia, Canada

PHYSICIAN-SCIENTIST

Tenure-Track Faculty Position

The School of Kinesiology at Simon Fraser University seeks an outstanding physician-scientist to fill a tenure-track faculty position. This appointment is intended for an academically trained physician with a proven record of research accomplishments who is qualified to practice medicine in Canada. The initial appointment may be made with or without tenure, at any level up to senior associate professor or equivalent. Applications from physicians with a strong interest in research and teaching but with less experience will also be accepted. If a suitable tenure-track candidate is not found through this search process, a limited-term lecturer appointment may be made.

The preferred candidate will be expected to establish an independent, externally funded research program, teach undergraduate and graduate courses in his/her areas of expertise and serve as the Medical Officer for the School and its programs. Appropriate areas of research focus and teaching expertise include: environmental physiology; neurology/neuroscience; physiatry; rehabilitation medicine; prevention and/or rehabilitation of disorders of major societal concern such as cardiovascular disease, stroke, degenerative disorders of the nervous system, diabetes, or musculoskeletal disorders; or any other area relevant to the field of kinesiology.

Simon Fraser University, located on top of Burnaby Mountain in Greater Vancouver, is renowned for the high quality of its programs. Tenure-track appointments are for an initial probationary period of three years and include an excellent benefits package, a mortgage assistance package and a generous moving allowance.

The School of Kinesiology has the mission to study human structure and function and their relation to health and movement. Its 22 tenure-track faculty members and 5 laboratory instructors cover a wide range of disciplines and teach approximately 500 students enrolled in the B.Sc. program in Kinesiology and 50 graduate students enrolled in M.Sc. or Ph.D. programs. Our website: http://fass.sfu.ca/kin has further description of the School.

Priority will be given to applications received by 15 September 1997, but the search will continue until the position is filled. Starting date is negotiable. To apply, please submit your curriculum vitæ; three publications that you consider most important; a cover letter outlining your clinical, teaching, and research experience; anticipated research directions; your philosophy and commitment to teaching; and the name, address, and telephone of three references who you have arranged to send confidential letters of reference to: Physician-Scientist Search Committee, School of Kinesiology, Faculty of Applied Sciences, Simon Fraser University, Burnaby, British Columbia V5A 186, Canada.

Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. In accordance with Canadian Immigration requirements, this search is directed to Canadian citizens and permanent residents of Canada. All appointments are subject to budgetary authorization.



RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

An established research program at the Mayo Clinic is seeking a research associated postdoctoral fellow with molecular biology experience to conduct studies on antibody function as part of a concerted effort to determine the molecular basis of antibody-induced repair of demyelinated lesions in the central nervous system. The successful applicant will join a team of molecular immunologists and neurobiologists in a well-funded program which provides unique opportunities to work interactively with two established laboratories. This multidisciplinary project brings a blend of molecular, biochemical, cellular, genetic, and medical perspectives to the investigation of remyelination in animal models of CNS injury, with the specific goal of extending these concepts to the treatment of human disease. Applications from investigators with a Ph.D. degree or M.D./D.V.M. degree with a laboratory based research experience in molecular biology or molecular immunology are invited. Send c.v. and the names of three references to: Larry R. Pease, Ph.D. (Pease.Larry@Mayo.edu) Department of Immunology, Department of Biochemistry and Molecular Biology or Moses Rodriguez, M.D. (Rodriguez, Moses@ Mayo.edu), Department of Neurology, Department of Immunology, Mayo Clinic, 200 1st Street SW, Rochester, MN 55905.

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

CONFERENCE

National Institutes of Health
(NIH)
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Human Gene Transfer: Beyond Life-threatening Disease

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For further information contact:

Telephone: (301) 946-9790 FAX: (301) 946-1911

e-mail: alldredg@reda-intl.com



MARINE AQUACULTURE GENETICIST

THE COLLEGE OF WILLIAM AND MARY VIRGINIA INSTITUTE OF MARINE SCIENCE SCHOOL OF MARINE SCIENCE

The Department of Fisheries Science continues to seek applicants for an Associate or Assistant Professor. This announcement is intended to supersede and broaden an earlier announcement for the position in a new state-supported program in aquaculture genetics and breeding technology of coastal and marine species including molluscan shellfish.. A Ph.D. in genetics, fisheries science or a related field is desirable. A strong background in cyto-, molecular, or quantitative genetics as applied to the culture of marine species is preferred. The successful candidate will be expected to develop a vigorous, grant supported research program and provide advice to federal and state management agencies and to industry; support of commercial aquaculture development will be expected. The position may be filled as either: (1) a non-tenure eligible, but fully enfranchised research faculty or (2) a tenure track teaching and research faculty. To qualify for a tenure track appointment, applicants will be expected to have a commitment to graduate education and provide evidence of strong teaching abilities. Tenure track faculty would be expected to teach graduate level courses and mentor M.A. and Ph.D. students in addition to fulfilling the research and extension functions described above.

Review of applicants will begin immediately and continue until the position is filled. A letter of application and curriculum vitae accompanied by the names, addresses and telephone numbers of three references should be sent to:

Dr. William D. DuPaul Associate Director for Advisory Services Virginia Institute of Marine Science The College of William and Mary Gloucester Point, VA 23062

The College of William and Mary is an equal opportunity, affirmative action employer. Members of under represented groups (including people of color, persons with disabilities, Vietnam Veterans and women) are strongly encouraged to apply.

PRIZE



POTAMKIN PRIZE FOR RESEARCH IN PICK'S, ALZHEIMER'S AND RELATED DISEASES

A prize of \$100,000 will be awarded by the American Academy of Neurology to a person(s) in recognition of major contributions to the understanding of the causes and the prevention, treatment, and ultimately the cure for Pick's, Alzheimer's and related diseases.

Candidates may be nominated on a world-wide basis from any of the biological disciplines including bio-chemistry, molecular biology, molecular genetics, pharmacology, immunology, physiology, cell biology, neuropathology or epidemiology.

A nomination application, nominating letter citing the scientific accomplishments of the candidate in detail, two supporting nominating letters, a curriculum vitae, and up to six (6) selected reprints in twelve (12) complete sets are required.

The deadline for receipt of materials is November 3, 1997. No nomination will be considered unless it is complete. The awardee(s) must be present for the AAN Scientific Program, at is annual meeting in Minneapolis, Minnesota on Tuesday, April 28, 1998.

REQUEST APPLICATION AND SUBMIT NOMINATION TO:

American Academy of Neurology

Potamkin Prize for Research In Pick's, Alzheimer's and Related Diseases

1080 Montreal Avenue St. Paul, MN 55116 Phone: 612/695-1940

The Potamkin Prize is funded through the Potamkin Foundation.

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DEPARTMENT OF THE ARMY SENIOR EXECUTIVE SERVICE VACANCY

DIRECTOR, U.S. ARMY RESEARCH OFFICE RESEARCH TRIANGLE PARK, NORTH CAROLINA

Applications are being accepted for the Director, U.S. Army Research Office, a career Senior Executive Service (SES) position reporting to the Deputy Commanding General, U.S. Army Materiel Command. The annual salary range is \$101,666—\$121,265 depending upon individual qualifications and salary history. The individual selected will also be eligible to earn performance bonuses and awards.

The incumbent manages an annual budget of approximately \$300M of Department of Army, and other Department of Defense (DoD) and non-DoD resources. Incumbent has responsibility for focusing funds on extramural basic research programs and special initiative research efforts that meet the critical science and technology needs of Army and national defense. Incumbent has responsibility for development and conduct of programs in the areas of physical and engineering sciences, material sciences, atmospheric and terrestrial sciences, biology, and mathematical and computer sciences. Establishes and maintains liaison with Army laboratories; research, development, and engineering centers; and other Army organizations to determine needs, ensure integration of the Army Research Office basic research program, and accelerate the transfer of world-class science and technology to Army developers. Serves as a member of high level executive and general officer science and technology committees and groups and represents the U.S., DoD, DA, or U.S. Army Materiel Command at national and international conferences. conventions, and professional society meetings

Applicants must possess knowledge, skills, and abilities in the mandatory executive core qualifications of strategic vision, human resources management, program development and evaluation, resources planning and management, and organizational representation and liaison. In addition, applicants must have ability to recognize, evaluate, and advocate physical and engineering science opportunities which impact critical technologies for defense; ability to represent the agency and U.S. Government as a world-class expert in the physical or engineering sciences related to critical technologies for the Army as evidenced by memberships, awards, publications, and research accomplishments; and an ability to effect the transition of scientific results into technology capabilities.

Applicants must be U.S. citizens, be able to obtain a top secret clearance, be geographically mobile, and comply with provisions of the Ethics in Government Act

Interested individuals may obtain a complete application package by calling Ms. Tammy Higgins, (703) 617-9415 or by writing to: Commander, U.S. Army Materiel Command, ATTN: AMCPE-CS, 5001 Eisenhower Ave., Alexandria, VA 22333-0001. Applications must be postmarked by September 30, 1997.

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Director

Massachusetts Biologic Laboratories - Boston, MA

The University of Massachusetts Medical Center (UMMC) seeks a Director for its Massachusetts Biologic Laboratories (MBL), located in Boston. The MBL, which is licensed by the U.S. Food and Drug Administration (FDA) to manufacture biologic products for human use, has as its primary mission the improvement of public health through research, development and production of vaccines and plasma products. The MBL, with a staff of over 160, has been fulfilling this mission since 1894.

The Director's primary responsibility is to lead the research and development functions in a dynamic and innovative manner that will continue to allow the Massachusetts Biologic Laboratories to maintain a leadership position in product development. The Director's tasks shall include developing and implementing a strategic plan, and fostering effective relationships with public and private institutions. The Director will have a faculty appointment in an appropriate department of the University of Massachusetts Medical School.

The candidate must have either an M.D. or Ph.D. in a biological science, demonstrated leadership abilities and nationally recognized scientific credentials. Candidates with prior experience or understanding of the development of biologic products, specifically in vaccine development, are preferred. Other relevant experience includes an understanding of clinical trial management and evaluation, as well as success in establishing collaborative agreements with the pharmaceutical/biotech industry.

All candidates should submit a curriculum vitae with a bibliography, which provides information on relevant experience and accomplishments, and a list of at least three references with their postal and E-mail addresses, telephone and fax numbers. Applications will be accepted until the position is filled, although evaluation will begin immediately.



Please send all inquiries to: Edward Bresnick, Ph.D., Vice Chancellor for Research, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.

UMMC/MBL is an equal opportunity, affirmative action employer.

NUTRIENT METABOLISM Postdoctoral Training Program University of Florida

Postdoctoral traineeships are available through an Institutional National Research Service Award from the National Institute of Diabetes and Digestive and Kidney Diseases. The program is administered by the University of Florida's Center for Nutritional Sciences, and is a collaborative venture of the Department of Biochemistry and Molecular Biology and the Food Science and Human Nutrition Department.

- Folate Metabolism in Pregnant and Nonpregnant Women - Lynn B. Balley
- Molecular and Cellular Biology of Zinc Metabolism and Function Robert J. Cousins
- Nutrient Control of Glucose Transport in Adipocytes - Susan C. Frost
- Digestion, Absorption, and Metabolism of Vitamin B-6 and Folate - Jesse F. Gregory, III
- Molecular Biology of Amino Acid Transport in Disease - Michael S. Kilberg
- Cellular Biology of Copper Susan S. Percival

The program is designed for individuals with an interest in a career in the nutritional sciences field. Appointees must be citizens or noncitizen nationals of the United States or have been lawfully admitted for permanent residence at the time of appointment. Applications are accepted at any time, but positions are limited. Candidates should send a curriculum vitae and names of three references to: Center for Nutritional Sciences, Program Office, 201 FSHN, University of Florida, Gainesville, FL 32611. E-mail: rjc@gnv.ifas.ufl.edu.



NATIONAL SCIENTIFIC PROGRAM MANAGER

Major international voluntary health foundation is seeking a National Scientific Program Manager to assist in planning and directing the research program for grants, fellowships, program projects, and other research collaborations in support of work aimed at finding a cure for Type 1 diabetes. Will assist in determining program priorities, analyzing needs and research efforts, and assess ongoing efforts in basic and clinical research. Consults with governmental, private, and industrial organizations to identify and meet research needs.

Seven years of related basic and/or clinical scientific experience. Must have a doctorate, M.D., or equivalent professional degree such as D.M.D., D.V.M., or D.O. Specialized training or experience in a basic science discipline such as immunology, molecular biology, biochemistry, microbiology, molecular genetics, or clinical training and experience are required. Strong written and verbal communication skills desired. The ideal candidate should have experience in administration and management of biomedical research programs. Some travel required. This position may be located in either New York City or Washington, D.C.

Please forward your résumé along with salary requirements to: NSPM, Juvenile Diabetes Foundation, 120 Wall St., 19th Floor, New York, NY 10005-4001 or FAX: (212)785-9595.

EOE M/F.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately for studies to determine the effects of folate vitamin depletion on gene expression in mammalian tumor cells. Differential display techniques and subsequent cDNA library screening will be used to identify genes whose expression levels are either elevated or decreased in folate depleted cells and to determine the extent to which these changes in gene expression affect resistance to antifolate drugs and the induction of apoptosis. Expertise in recombinant DNA techniques, protein purification and characterization are required. Applicants should send a curriculum vitae, three letters of reference, and a statement of research interests to: Peter W. Melera, Ph.D., Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, 108 North Greene Street, Baltimore, MD 21201. FAX: 410-706-4037; e-mail: pmelera@umabnet.ab.umd.edu.

POSTDOCTORAL POSITIONS in signal transduction and mammalian genetics, University of Michigan. Two MH-funded Postdoctoral positions are immediately available to study the molecular and developmental genetics of skeletal formation. The first position is to use available biological reagents to isolate and characterize additional signal transduction components involved in skeletogenesis. The second position is to generate and study mice with transgenic and knockout mutations affecting skeletal formation. Send curriculum vitae and names of three references to: Jerome L. Gorski, Department of Human Genetics, 3570 MSRBII, Box 0688, University of Michigan Medical Center, Ann Arbor, MI 48109-0688. E-mail: jlgorski@umich.edu. The University of Michigan is an Affirmative Action/Equal Opportunity Institution

Three POSTDOCTORAL POSITIONS are available to investigate: genetic instability of Candida albicans; the cytoplasmic chaperonin complex in yeast; and cytochromes c and c_1 interactions. For further information, see website: http://www.urmc.rochester.edu/smd/biophys/faculty/sherman/htm. Interested candidates should send their curriculum vitae and a research background description to: Fred Sherman, Department of Biochemistry and Biophysics, Box 712, University of Rochester Medical School, Rochester, NY 14642. Telephone: 716-275-2766; FAX: 716-271-2683; e-mail: fsrm@bphvax.biophysics.rochester.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study excitation-contraction coupling in skeletal and cardiac muscle. This project will involve a range of techniques, including optical, patch clamp, molecular biology, and cell culture. Applicants with experience in these areas can send curriculum vitae with three references to: Jesús García, M.D., Ph.D., Department of Physiology and Biophysics (M/C 902), Univeristy of Illinois at Chicago, 900 South Ashland Avenue, Chicago, IL 60607-7171. E-mail: garmar@uic.edu. UIC is an Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION. Ph.D. in molecular biology, biophysics, genetics, or biochemistry. Position available to conduct research on molecular mechanisms of cellular response to oxidative stress in human melanocytes and melanoma cells and its regulation for preventive and therapeutic indications.

Contact: Dr. Frank L. Meyskens Jr., Director, University of California—Irvine, Chao Family Clinical Center Research Center, 101 The City Drive, Orange, CA 92668. FAX: 714-456-5039; e-mail: flmeyske@uci.edu.

SENIOR POSTDOCTORAL FELLOWSHIP opening for Ph.D. in molecular biology. Successful candidate will have completed some training in gene therapy. Requirements include experience in viral and non-viral vector for *in vivo* gene transfer and gene transfer techniques in mammalian cells, good publications record, good writing skills. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and the names of three references to: Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.

SENIOR POSTDOCTORAL FELLOWSHIP. Ph.D. to study developmental intestinal gene regulation (J. Clin. Invest. 95:745; Am. J. Physiol. 271:G377). Experience in promoter analysis/transgenics required. Possible long-term faculty position. Send cover letter, curriculum vitae, and three references to: Dr. Benjamin Shneider, Department of Pediatrics, Mount Sinai Medical Center, Box 1198, One Gustave L. Levy Place, New York, NY 10029.

POSITIONS OPEN

POSTDOCTORAL FELLOW HUMAN GENE THERAPY RESEARCH INSTITUTE

The Human Gene Therapy Research Institute has available Postdoctoral positions for research in gene transfer systems and their application to the treatment and prevention of human disease.

Laboratory focus is on translational research with a long-term goal of improving gene transfer into humans. Backgrounds in molecular virology, cancer biology, immunology, and microbiology are preferred. But all candidates with evidence of skills in molecular biology, cell biology, and mammalian biology will be considered. Positions are available immediately.

HGTRI is a not-for-profit, academic research group funded by the Central Iowa Health System of Des Moines. Laboratories provide state-of-the-art equipment, animal facility, and administrative and technical support. Applicants should submit a curriculum vitae, an outline of current and future research interests, and three references to: Charles J. Link Jr., M.D., Director Gene Therapy Program, Iowa Health System, 1313 High Street, Suite 111, Des Moines, IA 50309. Equal Opportunity Employer/Affinnative Action/Minorities/Fennales/Disabled/Vetenns.

PHYSIOLOGICAL STUDY OF SYNAPSE DEVELOPMENT

A POSTDOCTORAL FELLOWSHIP position is available to study molecular mechanisms for synapse development and plasticity. Ongoing projects include: (1) role of neurotrophic factors in synaptogenesis and plasticity; (2) characterization of new genes involved in specific stages of synaptogenesis. The candidate will carry out electrophysiological studies using cultured neurons or brain slices, and will learn biochemistry/molecular biology through interacting with molecular biologists in the lab. Experience in electrophysiology and a Ph.D., and/or M.D. degree with less than five years of postdoctoral experience, is required. A background in Ca²⁺ imaging is highly desirable. Interested applicants should send a curriculum vitae and names, addresses, and telephone numbers of three references, and a brief description of research experience and interests to: **Dr. Bai Lu, LDN, NICHD,** Building 49, Room 5A38, 49 Convent Drive, MSC 4480, Bethesda, MD 20892-4480. FAX: 301-480-3526; e-mail: lub@codon.nih.gov.

Applications will be accepted until December 31, 1997. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION MOUNT SINAI SCHOOL OF MEDICINE

NIH-supported Postdoctoral position is available to study toxicity, cell signaling, and gene expression in HepG2 liver-derived cell lines expressing the human cytochrome P4502E1 isoform. The role of oxidative stress in toxicity of ethanol is a major focus of the overall research project. Experience in molecular and cell biological techniques required. Position is available immediately. Please send curriculum vitae, summary of research interests/accomplishments, and names of three references to:

Dr. Arthur I. Cederbaum Biochemistry Department, Box 1020 Mount Sinai School of Medicine One Gustave L. Levy Place New York, NY 10029-6574

POSTDOCTORAL POSITION available immediately to study modulation of myogenic tone in cerebral and coronary arteries by K channels and calcium, using patch clamping and other appropriate techniques. Applicants must have experience in electrophysiology, preferably in vascular smooth muscle. Send a description of research experience, curriculum vitae, and names of three references to: Dr. Blair Robertson, University of South Alabama, Biomedical Sciences Department, UCOM 6000, Mobile, AL 36688. E-mail: broberts@jaguarl.usouthal.edu. Affirmative Action/Equal Employment Opportunity/Minorities/Fenales/Disabled.

Applicants are sought for a full-time, POSTDOCTORAL FELLOW or RESEARCH ASSISTANT professor, with experience in molecular biology techniques to work on cytochrome P450 function and regulation. Salary commensurate with experience. Send curriculum vitae and salary expectations to: Dr. Andrew Parkinson, Department of Pharmacology, Toxicology, and Therapeutics, University of Kansas Medical School, 3901 Rainbow Boulevard, Kansas City, KS 66160-7417. The University of Kansas is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available to study the newly discovered CA²⁺ signaling pathways mediated by cyclic ADP-ribose and NAADP. Ongoing research includes characterizing their metabolic enzymes, synthesis of analogs, as well as investigating the regulation mechanisms of these novel pathways and their Ca²⁺ signaling functions. Experience with molecular biology, enzyme purification, and/or single-cell microinjection desirable. Please send curriculum vitae and reference letters to: Dr. Hon Cheung Lee, Department of Physiology, University of Minnesota, 6-255 Millard Hall, 435 Delaware Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION available to study the molecular biology/biochemistry of calcium-triggered exocytosis. Projects include structure-function relationships of the calcium-binding protein synaptotagmin. Experience in biochemistry, molecular biology, kinetics, and/or Drosophila genetics preferred. Please send curriculum vitae, the names and addresses of three references, and a brief statement of research interests to: Edwin Chapman, Ph.D., Department of Physiology, University of Wisconsin-Madison, 1300 University Avenue, Madison, WI 53711. E-mail: erchapma@facstaff.wisc.edu.

POSTDOCTORAL POSITION

A Postdoctoral position is available immediately to study the biochemical, cellular, and development roles of the vav proto-oncogene family. Ph.D., experience in molecular biology, cell signaling, and/or gene targeting techniques is essential. Send curriculum vitae and letters of reference to: Dr. Xose R. Bustelo, Department of Pathology, University Hospital 2-718B, SUNY Stony Brook, NY 11794-8651. FAX: 516-444-3419; e-mail: xbustelo@path.som.sunysb.edu. An Affirmative Action/Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS GENE TRANSFER

Study mechanisms of gene transfer for use in gene therapy (Science 261:209; JBC 268:16087, 270:24864; BBA 1278:41; Nature Bio. 15:167). Seeking individual with strong background in molecular biology. Send curriculum vitae and names of three references to: Dr. Robert Debs, CPMCRI, 2330 Clay, Stern Building, San Francisco, CA 94115. FAX: 415-561-1725; e-mail: karin@itsa.ucsf.edu.

POSTDOCTORAL POSITION. Immediately available to study the biochemistry, cell biology, or molecular genetics of protein phosphatase 5, implicated in signaling by steroid and peptide hormone receptors (TIBS 22:245). Send curriculum vitae and names, addresses, and telephone numbers of three references to: Michael Chinkers, Ph.D., Vollum Institute L-474, Oregon Health Sciences University, Portland, OR 97201-BAX: 503-494-4353; e-mail: chinkers@ohsu.edu. OHSU is an Affirmative Action/Equal Employment Opportunity Employer.

GLOBAL CAREER OPPORTUNITIES

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Research activities should focus on physical chemistry oriented towards relevant biological questions. Interdisciplinary fields of research (medicine, biology) are desirable. The new professor will be expected to participate at all levels in the physical chemistry undergraduate and graduate teaching.

Please submit your application together with a curriculum vitae and a list of publications to: The President of ETH Zurich, Professor Dr. J. Nüesch, ETH Zentrum, CH-8092 Zurich no later than October 15, 1997. The ETHZ specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.

Available POSTDOCTORAL POSITION for recent Ph.D./M.D. in a group working on gene therapy of hepatocarcinoma. Current projects are focused on gene therapy of cancer. Experience in molecular biology, gene transfer technology, or cellular immunology is required. Please send a full curriculum vitae including statement of research interests and names and e-mail addresses of two referees to: Professor C. Brechot and Dr. P. L. Tran, INSERM U370, Necker Faculty of Medicine, 156 rue de Vaugirard 75730, Paris, cedex 15, France. Telephone: 33-14-06-15-64-4; FAX: 33-14-06-15-58-1; e-mail: brechot@necker.fr.

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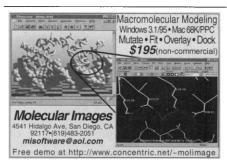


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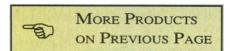
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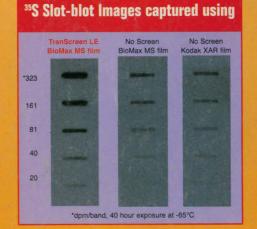
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