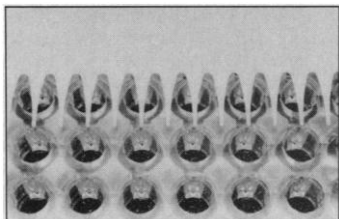


Microtiter Sequencing Combs

Microtiter Format Sharktooth Combs offer simultaneous loading of multiple samples for sequencing applications. The combs are engineered so that each tooth of the comb lines up with each tip of an 8- or 12-well multi-channel pipette to allow



samples to be loaded directly from a microtiter plate. This arrangement significantly decreases the time required for loading a sequencing gel. The combs are available in formats that allow the user to load every other lane, every third lane, or every fourth lane. **Owl Scientific. Circle 141.**

Plasmid DNA Purification Kits

CirclePrep provides plasmid DNA purification from bacterial pellets in 75 min. It requires no enzymes for lysis, protein, or RNA elimination, nor does it use phenol or chloroform extractions or ethidium bromide. After overnight growth, cells are lysed at high pH in SDS. Chromosomal DNA and ribosomal RNA are removed with a lithium chloride precipitation. Plasmid is then bound to a silica matrix in a microcentrifuge tube where small RNA and other contaminants are washed away. The plasmid DNA is then eluted into water. CirclePrep II features a ribonuclease A/T1 mixture to remove all RNA from plasmid DNA in 1 hour. After the procedure plasmid DNA shows no residual ribonuclease activity, and is free of chromosomal DNA, RNA, proteins, and other contaminants that inhibit enzymes. CirclePrep Large is designed for isolating plasmid DNA from 1-liter cul-

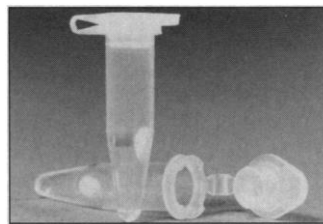
tures without the trouble and mess of organic extractions or "scaling up" isolation. **BIO 101. Circle 142.**

DNA Polymerase

Bst DNA polymerase, with its 65°C temperature optimum, performs all sequencing reactions at elevated temperatures. This high temperature sequencing reaction reduces secondary structure in the DNA, eliminating compression artifacts and ghost bands. The enzyme's high strand synthesis rate and low template requirements (either single-stranded or double-stranded templates) allow reaction completion in as little as 2 min. Bst polymerase is the large fragment of DNA polymerase I, purified from the thermophilic bacterium *Bacillus stearothermophilus*. Three different sequencing kits are available: Bst premixed sequencing kit, Bst adjustable ratio sequencing kit, and Bst premixed 7-deaza-dGTP sequencing kit. **Bio-Rad Laboratories. Circle 143.**

Hot Start Tubes

HotStart 100 storage and reaction tubes are 0.5-ml thin-wall polymerase chain reaction (PCR) tubes with a precisely formulated wax bead pre-adhered on the interior surface. Designed to facilitate advanced PCR methods such as the hot start technique, the wax forms a uniform convective vapor barrier to significantly reduce "mispriming" and primer oligomerization. The wax barrier hardens for safe and reliable long-term storage of optimized PCR product. As a replacement for conventional mineral oil, the wax-mediated convective barrier increases PCR specificity, sensitivity, and accuracy. Every



PCR reaction starts simultaneously at 55°C, which is particularly advantageous when working with low-copy samples. **Molecular Bio-Products. Circle 144.**

High-Performance Medium for RPC

Source 15RPC medium for reversed-phase chromatography (RPC) of peptides, proteins, and oligonucleotides is characterized by a 15- μ m monodispersed, polymeric matrix with a controlled reproducible pore size. The uniformity of the beads gives stable packed beds and low back pressures. With an operating pH range of 1 to 12, a different selectivity and high capacity, Source 15RPC is an interesting alternative to silica-based RPC matrices. Resource RPC 1 ml and Resource RPC 3 ml are columns prepacked with Source 15RPC medium. They give fast, reproducible, high-capacity, high-resolution separations at high flow rates and can be used with fluorescence polarization liquid chromatography and high-performance liquid chromatography systems. **Pharmacia Biotech. Circle 145.**

Copper Stain and Destain Kit

The Copper Stain and Destain Kit allows visualization of protein bands on SDS-polyacrylamide electrophoretic gels in just 5 min. The proteins are negatively stained (blue-green opaque back-

ground), giving results without the need for a destaining step. Because the proteins are reversibly fixed in the gel, they can be easily eluted or blotted after a 15-min destaining step. Copper stain has a greater sensitivity than Coomassie blue R-250. **Bio-Rad Laboratories. Circle 146.**

Automated Curve-Fitting Software

Version 2.0 of TableCurve for Windows, now called TableCurve 2D for Windows, is software that automatically fits 3456 built-in linear and nonlinear equations, including up to 15 user-defined functions, to an x,y data set in a single processing step. It then presents a best fit equations list, curve fit graph, and detailed statistical reports for review, export, or printing. The program's unique capabilities enable users to find the best equation for their data. **Jandel Scientific. Circle 147.**

Literature

Product Catalog: Affordable Radioisotope Counting Wherever You Need It provides information on both instruments and radiation protection equipment. New products described include an in-line high-performance liquid chromatography detector for peptides, monoclonals, and radiopharmaceuticals labeled with gammas and high-energy betas and a compact thin-layer chromatography scanner for quality control of radiochemicals and radiopharmaceuticals. **Bioscan. Circle 148.**

1994 Cannon Catalog Supplement: Laboratory Equipment for Viscosity Measurement introduces several new products. **Cannon Instrument. Circle 149.**

United States Catalog describes more than 600 products for microseparation, membrane filtration, and chromatography. **Amicon. Circle 150.**

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

SCIENCE

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Advertising Manager
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FAX: 202-682-0816

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POSITIONS OPEN

MOLECULAR BIOLOGIST

The Department of Pediatrics of the University of Illinois at Chicago and the Michael Reese Hospital invite applicants for a research position with our hemoglobin group. The appointment will be at the rank of **RESEARCH ASSISTANT PROFESSOR**. Requirements include Ph.D. degree and experience with DNA cloning and mutagenesis. Contact: **George R. Honig, M.D., Ph.D., Professor and Head, Department of Pediatrics (m/c 856), 840 S. Wood Street, Chicago, IL 60612.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN NEPHROLOGY

The Division of Nephrology, Department of Medicine at the University of Alabama at Birmingham seeks applicants for a tenure earning position at the level of **ASSISTANT PROFESSOR**. Applicants must have a relevant Ph.D. or M.D. degree and at least 3 years of postdoctoral experience with demonstrated success in publications and securing extramural funding. Responsibilities would include expression cloning of the epithelial sodium channel subunits, with special emphasis on human hypertensive diseases such as Liddle's syndrome and low-renin hypertension. Special consideration will be given to those with strong independent research interests.

Send curriculum vitae to: **D. G. Warnock, M.D., Director, Division of Nephrology, University of Alabama at Birmingham, Birmingham, AL 35294.** FAX: (205) 934-1879. *UAB is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

Tenure-Track Faculty Position in Epithelial Cell Biology

The Renal-Electrolyte Division of the Department of Medicine invites well-qualified individuals to apply for tenure-track positions in basic research in epithelial cell biology. Successful candidates will be well trained in molecular biology of epithelial transport, cell structure, electrophysiology, or biophysics and will have high potential or demonstrated success in obtaining extramural support for their research and high research productivity. Qualifications include a Ph.D. in a biomedical discipline or an M.D., with sufficient postdoctoral research training to permit the successful development or transfer of an independent research program. Rank of appointment (**ASSISTANT** or **ASSOCIATE PROFESSOR**) will depend on prior experience. Successful candidates will receive a joint appointment in the Department of Cell Biology and Physiology as well as in Medicine. **Mark L. Zeidel, M.D., Laboratory of Epithelial Cell Biology, Director, Renal-Electrolyte Division, University of Pittsburgh Department of Medicine, Room 937 Scaife 3550 Terrace Street, Pittsburgh, PA 15261.** Telephone (412) 383-8953; FAX: (412) 647-6222. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

THE MIAMI PROJECT SEEKS 3 NEW FACULTY IN MOLECULAR BIOLOGY, NEUROANATOMY, MOTOR PHYSIOLOGY

The Miami Project to Cure Paralysis, a multidisciplinary research effort to develop strategies to improve function after spinal cord injury at the University of Miami School of Medicine invites applications for tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** positions in (1) Molecular Biology or Biochemistry, with research interests that encompass the role of neurotrophic factors in CNS development, plasticity or regeneration, (2) Neuroanatomy, with expertise in neuronal responses to injury, neuronal-tracing methods in vertebrates, and (3) Motor Physiology, emphasizing spinal and supraspinal control of vertebrate locomotor function, and/or neuronal mechanisms of injury-induced motor dysfunction. Primary appointments will be in appropriate clinical or basic science departments. Successful candidates will establish a successful independent research program. Excellent collaborative opportunities exist. Send curriculum vitae, statement of research interests and three references by August 31, 1994 to: **Dr. Richard P. Bunge, Scientific Director, The Miami Project to Cure Paralysis, 1600 N.W. 10th Avenue (R-48), Miami, FL 33136.** *The University of Miami is an Equal Opportunity Employer.*

POSITIONS OPEN

BIOLOGY. (Search continued.) Faculty position available January 1995 at the rank of **ASSISTANT PROFESSOR** (tenure-track). Ph.D. required. We seek a candidate who will demonstrate strong, dynamic teaching skills and will develop an active research program. Teaching responsibilities will include animal physiology, an upper level ecology course, an additional course dependent upon the candidate's expertise and shared responsibility for the introductory level biology and environmental science courses for science majors and non-science majors. The successful candidate will be comfortable in the field as well as in the laboratory and will develop a research program with both physiological and ecological components. The research expertise of the current faculty is strong in the areas of cell biology, plant biology, and biochemistry, particularly protein and peptide chemistry.

Philadelphia College of Textiles and Science (PCT&S) is a fully accredited, four-year, independent, career-oriented institution. Our science department offers B.S. degrees in biology, biochemistry, chemistry, environmental science, physician assistant, applied mathematics and computer science.

Review of applications will begin August 15, 1994. Candidates should submit a letter of application, curriculum vitae, statement of research interests, and names and telephone numbers of three current references to: **Dr. Richard A. Nigro, Vice President for Academic Affairs, Philadelphia College of Textiles and Science, School House Lane and Henry Avenue, Philadelphia, PA 19144.** *PCT&S is an Affirmative Action/Equal Opportunity Institution.*

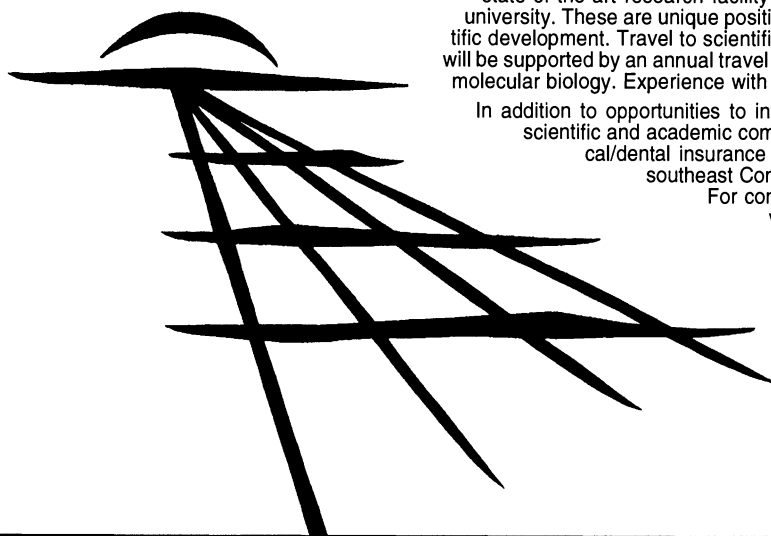
PHYSIOLOGY FACULTY POSITIONS

The Department of Physiology at the Medical College of Pennsylvania invites applications for one or more tenure-track faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level from investigators whose research programs are in the area of cellular or molecular aspects of membrane biophysics, especially ion channels, receptors, ion and metabolite transport, membrane fusion, or endo- and exocytosis. Applicants must have a relevant Ph.D. or M.D. degree with broad training in physiology or biophysics, and at least two years postdoctoral experience. Successful applicants will be expected to develop and maintain a vigorous, independent, extramurally funded research program, as well as teach medical and graduate students. Salary, space, and start-up funds will be competitive. Interested parties should submit a curriculum vitae, a statement of research interests, and the names of three references to: **Dr. Michael M. White, Chair, Faculty Search Committee, Department of Physiology, Medical College of Pennsylvania, 2900 Queen Lane, Philadelphia, PA 19129.** *The Medical College of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities.*

FACULTY POSITION IN METABOLIC REGULATION MICHIGAN STATE UNIVERSITY DEPARTMENT OF PHYSIOLOGY

The Department of Physiology invites applications for up to two tenure-track appointments for positions of **ASSOCIATE/ASSISTANT PROFESSOR**, preferably at the **ASSISTANT PROFESSOR** level. We seek outstanding candidates with a Ph.D. degree or equivalent with training in physiology, biochemistry or molecular biology. Expertise should be in the area of metabolic regulation. Preference will be given to those individuals using modern molecular approaches to understand normal and disease processes associated with disorders of metabolism, e.g., diabetes. Candidates are expected to develop a vigorous externally funded research program and to teach undergraduate, graduate, or medical students. Interested individuals should provide a complete curriculum vitae, a brief statement of research interests, bibliography and copies of key publications or reprints. Applicants should arrange to have at least three letters of recommendation sent from scientists who can evaluate their accomplishments and future potential for research and teaching. Applications should be sent to: **Chairperson, Metabolic Regulation Search Committee, Department of Physiology, Michigan State University, East Lansing, MI 48824-1101.** Applications accepted until position is filled. *Michigan State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

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medicine
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Molecular Biology

Through challenging research programs and discovery of new pharmaceutical agents, scientists at Pfizer's Central Research Division contribute to the development of medicines that bear the mark of innovation. We are committed to finding and developing breakthrough pharmaceutical interventions for major unmet needs. Our Fortune 100 company's current array of new pharmaceutical products is one of the most exciting in the industry.

POST-DOCTORAL SCIENTISTS in Molecular Biology

Currently, we're seeking three post-doctoral scientists to each guide a 3-year independent research study focusing on *in vivo* manipulation of immune-related molecules using transgenic animal and Embryonic Stem cell technologies. Selected candidates will spend 18 months at Pfizer's Central Research Division's state-of-the-art research facility in Groton and then 18 months at a co-sponsoring university. These are unique positions that emphasize publication and individual scientific development. Travel to scientific meetings and the presentation of research results will be supported by an annual travel stipend. Qualified candidates will possess a Ph.D. in molecular biology. Experience with transgenic animals or ES cell culture is preferred.

In addition to opportunities to interact with members of the world's finest corporate scientific and academic communities, you will enjoy a competitive stipend, medical/dental insurance coverage and the many lifestyle advantages of our southeast Connecticut location. Relocation assistance is available.

For confidential consideration, please send your curriculum vitae and the names of three references to: **Ms. Lynn Beaulieu, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.**

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Central Research

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November 14-15 - Boston

January 10 - Washington DC

February 14 - San Francisco



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You may register FREE at the door. If unable to attend in person and would like your resume distributed to participating firms, or want information on other LSA events, send your resume to: Life Science Associates/ Dept. S, 2100 Embarcadero, Suite 101, Oakland, CA 94606. Companies interested in recruiting call 510-436-3976.

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A permanent position is available in our Preclinical Cardiovascular Research Department for an experienced

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The successful candidate will join a dynamic group working on the discovery and characterization of new cardiovascular drugs, with particular emphasis on vascular tone regulation.

Applicants should have a PhD in a relevant field and a solid professional background, including post-doctoral research experience, in electrophysiology and cell biology. An interest and experience in the field of general signal transduction mechanisms and/or intracellular signalling is also essential.

We offer excellent laboratory facilities and access, either within or outside the department, to most of the latest technologies. Collaboration with leading university laboratories is encouraged.

Qualified applicants should send a curriculum vitae (including a summary of research accomplishments and a list of publications) and two references, together with copies of principal publications and a handwritten covering letter briefly explaining why they are interested in the position, to Ms M. Waespe, Personnel Department, quoting reference Science 57/94/Wä.

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CENTRE FOR NATURAL PRODUCT RESEARCH

*Institute of Molecular
and Cell Biology,
National University
of Singapore*

Research Leader for the Bioassay Group



The Centre for Natural Product Research, recently established in the premises of the Institute of Molecular and Cell Biology (IMCB) of the National University of Singapore, represents a major new development in the biotechnology industry. Supported by Glaxo, the IMCB and the Singapore Economic Development Board, the Centre is being developed as an integrated unit dedicated to the discovery of novel drug candidates from natural sources.

We now wish to appoint a Senior Biochemist to the position of Research Leader of the Bioassay Group. Reporting directly to the Head of the Centre, you will be responsible for the development and supervision of the biological screening programme which will incorporate enzyme, receptor and functional cellular assays designed to detect novel bioactive

compounds of potential therapeutic use in a wide range of disease targets. You will have a proven track record of scientific achievement with several years' relevant postdoctoral experience, preferably in the drug discovery field. You will also have a demonstrable capacity for scientific innovation, a broad knowledge base spanning the major areas of modern biological sciences and a dedicated commitment to the goal of drug discovery.

This is a key position in which the successful applicant will play a major role in the development of the Centre's screening programme. Excellent communication, interpersonal and management skills, along with strong leadership qualities and a powerful drive to succeed in a challenging

environment will therefore be essential attributes. For the candidate able to provide the necessary expertise, enthusiasm and commitment, the appointment provides a unique opportunity for career and personal development in an environment which combines the widely acknowledged cultures of scientific excellence within the IMCB and Glaxo. Competitive terms and conditions of employment, along with generous relocation assistance to this exciting part of the world will also be offered.

Please send a full CV with covering letter to: Dr. Miranda G.S. Yap, Centre for Natural Product Research, Institute of Molecular and Cell Biology, National University of Singapore, 10 Kent Ridge Crescent, Singapore 0511, Fax (65) 779-1117.



Glaxo Research and Development





DEPARTMENT OF PURE AND
APPLIED BIOLOGY

Chair of Parasitology

Applications are invited for a Chair of Animal Parasitology in the Department of Pure and Applied Biology.

The University has agreed to fill this Chair prior to the retirement of Professor Donald L Lee in 2-3 years time to ensure continuation of the strong research reputation and teaching in parasitology within the University. Applications from those with a good international scientific reputation in molecular biology, immunology, biochemistry, physiology or epidemiology of parasites will be particularly welcome but applications from candidates specialising in other aspects of parasitology will be considered seriously. The post offers an important opportunity for research within a university containing a well-developed supporting infrastructure and considerable opportunity for interdisciplinary activity within a community of more than 100 academic staff in the biological sciences.

The salary will be within the non-clinical professorial range.

Candidates wishing to discuss the post informally should contact: Professor D L Lee (tel: 0532 332880; fax: 0532 332882; e-mail: PAB6DLL@LEEDS.AC.UK) through whom arrangements can also be made to visit the Department.

The University of Leeds is an Equal Opportunities Employer. Women and members of ethnic minorities are under-represented in the University in posts at this level and the University would therefore particularly welcome applications from members of such groups whilst, however, affirming that the appointment will be made entirely on merit.

Further particulars may be obtained from (Mrs) S M D Wheeler, Personnel Director, Office of the Register, The University of Leeds, Leeds LS2 9JT, UK. Tel: 0532 335775 (direct line); fax: 0532 335779, quoting the reference number 56/54.

Closing date for applications: Friday, 9 September 1994.

Associate Director Environmental Programs

Lawrence Livermore National Laboratory (LLNL) is seeking candidates for the position of Associate Director for Environmental Programs. This is a new directorate with the mission of developing and representing programmatic environmental work at the Laboratory. The Associate Director will manage a broad inter-disciplinary program in environmental research, development, and demonstration including research and applied projects in climate change, the geosciences and ecological sciences; waste management; environmental restoration and monitoring; and characterization and risk assessment. The Associate Director will report to the Director of the Laboratory and manage a FY 1995 budget of \$75M and a staff of 300.

Requirements include a Ph.D. or equivalent experience in the relevant sciences or engineering with demonstrated and documented experience and success in the environmental field or related areas. Evidence of creativity and success in environmental program development and demonstrated leadership and management skills in a high-technology environment also required.

LLNL offers a challenging work environment and a competitive salary/benefits package. Interested applicants are invited to mail resume to Kristine Kansa, Recruiting and Employment Division, Lawrence Livermore National Laboratory, PO Box 5510, L-725, Dept. AJSC7M4KK, Livermore, CA 94551. U.S. Citizenship required. We are proud to be an Equal Opportunity Employer. M/F/D/V.

University of California

 **Lawrence Livermore
National Laboratory**

Mark Your Calendar for 23 September: SCIENCE's Annual Careers Issue

On 23 September 1994 *Science* will present its annual Careers issue. Here's your chance to place your advertisement in one of the most important and popular issues of the year. Last year's Careers issue highlighted over 65 pages of career opportunities for scientists at all levels. The 1994 issue will once again rank as one of the top scientific career planning resources. You can be sure scientists at all levels will use the Careers issue to survey the job market and plan future career moves.

When you advertise in the 23 September issue you will receive:

- **Bonus Distribution**

Copies of the 23 September issue will be distributed to over 2,000 attendees at each of the Biotechnology/Pharmaceutical Job Fairs in La Jolla, CA on September 23-24, and in Cambridge, MA on September 30-October 1.

- **Advertisers' Index**

Full page advertisers will be listed separately on an index affixed to the covers of the issues distributed at the job fairs.

- **Harvey Readership Study**

Full page advertisers will benefit from a Harvey Readership Study - a terrific way to find out what *Science* readers are thinking about your advertising message.

Advertising Deadline: 6 September

To advertise call Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.
In Europe call (44) 0223 302067 or fax to (44) 0223 302068

Tenure-Track And Postdoctoral Opportunities.

Listed below are a few of the outstanding opportunities for conducting research that are now available at the National Institutes of Health.

Tenure-Track Positions Assistant Professor Equivalent

Kidney Diseases James E. Balow, MD

A tenure-track position is available to develop an independent research program in progressive kidney diseases. Candidates must have an MD degree and be qualified as a clinical nephrologist. Expertise in current methods in molecular biology/pathology, as well as in design and execution of clinical studies are required. Besides appropriate laboratory space and equipment, support by up to two postdoctoral fellows and a technician will be provided. Candidates will be evaluated for tenure within a period not to exceed six years. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Kidney Diseases Section (OE-50), NIDDK, Building 10, Room 9N-222.

Signal Transduction Allen M. Spiegel, MD

An opportunity is available to develop an independent, first-rate research program that complements ongoing research on the structure and function of G proteins and G protein-coupled receptors. Individuals of the highest caliber with a research interest in signal transduction, preferably related to G proteins, and with substantial experience in biochemistry and molecular biology should apply for this tenure-track position. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Metabolic Diseases Branch (OE-50), NIDDK, Building 10, Room 9N-222.

Postdoctoral Positions

Aging and Behavior in Nonhuman Primates Donald K. Ingram, PhD

A position is available for an applicant with demonstrated experience in nonhuman primate behavioral analysis. Studies will be conducted using automated equipment to assess sensory, motor, and cognitive performance. A large sample of rhesus and squirrel monkeys is available for longitudinal studies of the effects of caloric modification on the aging process. Applicant must have less than five years postdoctoral experience. Laboratory of Cellular and Molecular Biology (OE-50), NIA, Gerontology Research Center, Hopkins Bayview Research Campus, Baltimore, MD 21224.

Immunopathogenesis and Virology of HIV-1 Michael Norcross, MD

Studies of heterosexual transmission of HIV-1, including development and standardization of antiviral assays, characterization of HIV and virus entry pathways, and analysis of HIV-specific immune responses are in process. Experience in immunology and molecular biology related to AIDS and HIV-1 is desirable. Division of Hematologic Products (OE-50), FDA/CBER (HFM 541), 1401 Rockville Pike, Rockville, MD 20852-1448.

Molecular Virology Indira Hewlett, PhD

The role of cellular factors and cytokines in HIV replication and pathogenesis is being studied. Using gene amplification techniques for detection and quantitation of HIV in infected individuals, studies addressing *in vivo* pathogenesis, approaches to therapeutic intervention, and virus transmission are also being investigated. Applicants must have less than five years postdoctoral experience. Laboratory of Molecular Virology (OE-50), FDA/CBER (HFM 315), 1401 Rockville Pike, Rockville, MD 20852-1448.

Signal Transduction Hua Gu, PhD

Two positions are available to study the signal transduction process in the immune system. Research focuses on *in vivo* animal models and takes a multidisciplinary modern biological approach, including conditional gene targeting. Applicants should have a strong background in molecular biology and/or biochemistry. Experience in gene targeting is not required. Laboratory of Immunology (OE-50), NIAID, 12441 Parklawn Drive, Room 139, Rockville, MD 20852.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.nih.gov) or via modem (1,3014022221 or 1,8003582221) with modem parameters set at "7,Even,1". When connected to NIH, type in "vt100" for terminal emulation, "F5E" for initials, and "AJL1" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes additional opportunities at the NIH, may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov" and port "70". Select *Grants and Research Information* to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.



National Institutes Of Health

9000 Rockville Pike, Bethesda, MD 20892

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POSITIONS OPEN

BIOMEDICAL ENGINEERING CENTER THE OHIO STATE UNIVERSITY

Biomedical Engineering Center is seeking a faculty member (ASSISTANT, ASSOCIATE or FULL PROFESSOR) with expertise in Biomedical Imaging. This faculty position is made possible by a recently funded Whitaker Foundation Special Opportunity Award. The applicants will have a doctorate in engineering and demonstrated expertise in biomedical image capture, processing or display. The successful candidate will work as part of a multidisciplinary team of engineers, scientists, and clinicians, and conduct basic and applied research and development in the area of biomedical imaging. The new faculty member will participate fully in the development of the new graduate curriculum in biomedical imaging, teach courses, advise graduate students, and develop independent research projects and secure extramural funding to support these activities. This position is a tenure-track appointment. The Biomedical Engineering program at Ohio State currently has over 90 graduate students, a third of whom are working in biomedical imaging. Applicants should send résumé and three letters of reference in confidence to: **Dr. J. Fredrick Cornhill, The Ohio State University, Biomedical Engineering Center, 1080 Carmack Road, 270 Bevis Hall, Columbus, OH 43210-1002. Telephone: (614) 292-1285; FAX: (614) 292-7301. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.**

TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSOR TRANSGENICS Michigan State University

Applications are invited to head a newly funded transgenic core facility in the Physiology Department at Michigan State University at the assistant or associate professor level. The successful candidate will supervise the construction of transgenic animals, i.e., mice, and oversee a staff in the production and maintenance of transgenic animals. Significant experience in the generation of transgenic animals is required. The goal of this facility is to provide transgenic animals for use by investigators both within the Physiology Department and in other university departments. In addition, the candidate will be expected to develop a vigorous externally funded research program and participate in departmental teaching programs. Interested individuals should provide a complete curriculum vitae, a brief statement of research interests, experience in construction of transgenic animals, bibliography and copies of key publications or reprints. Applicants should arrange for at least three letters of recommendation to be sent from scientists who can evaluate their accomplishments and future potential for research and teaching. Applications should be sent to: **Chairperson, Transgenic Animal Search Committee, Department of Physiology, Michigan State University, East Lansing, MI 48821-1101. Applications accepted until position is filled.**

ANIMAL PHYSIOLOGY—York University, Toronto, Canada.

Applications are invited for the position of **ASSISTANT PROFESSOR** in Animal Physiology in the Department of Biology in the Faculty of Pure and Applied Science. The successful candidate will be nominated for a Women's Faculty Award of the Natural Sciences and Engineering Council, and appointment is contingent upon success in that competition. Nominees must be Canadian citizens or permanent residents and within five years of receiving their doctorate. The department is interested in receiving applications in any field dealing with the physiology or endocrinology of animals. Applications, including a current curriculum vitae and a selection of published work, should be sent to: **Prof. K.G. Davey, Chair, Physiology Search Committee, Department of Biology, Faculty of Pure and Applied Science, York University, North York (Toronto), Ontario, Canada M3J 1P3. Email: davey@vm2.yorku.ca. FAX: (416) 736-5698.** Three referees should be asked to send letters direct to Prof. Davey. Applications and letters of reference should reach the department by Sept. 12, 1994. York University is situated in Metropolitan Toronto, an active center for scientific and scholarly research, offering a wide range of cultural activities. York University is implementing a policy of employment equity, including affirmative action for women faculty.

POSITIONS OPEN

ASSISTANT, ASSOCIATE OR FULL PROFESSOR OF MICROBIOLOGY & IMMUNOLOGY STANFORD UNIVERSITY SCHOOL OF MEDICINE

One full-time faculty position at Stanford University School of Medicine. Candidates should have established (or be prepared to establish) an independent laboratory program in some area of animal virology. Applicants with interest in the cell biology, molecular biology, immunology, or pathogenesis of viral infections are especially encouraged. Interests in using viruses as agents for gene therapy, and molecular biology of viral pathogenesis are also desirable.

Salary support, laboratory space and start-up funds are available for this position, but there should be evidence of ability of the candidate to successfully compete for peer-reviewed research funding.

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

Please send curriculum vitae, a statement of career plans, and at least three names of references to: **Edward S. Mocarski, Chair, Virology Search Committee, Department of Microbiology & Immunology, Stanford University School of Medicine, Fairchild Science Building, D347, Stanford, CA 94305-5402.**

ASSISTANT/ASSOCIATE PROFESSOR PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY

Outstanding candidates are being sought for tenure-track positions to join a rapidly growing group of 30 plus members in the Program in Molecular and Cellular Biology. Candidates should have strong research programs within the broadly defined areas of biochemistry and cell, molecular and developmental biology which will serve to complement those areas of research currently in existence. Candidates should have demonstrated evidence of productivity. Teaching duties are modest and will be primarily at the level of graduate student and postdoctoral fellow education. Salary, space and start-up funds are competitive with national levels. Interested individuals should submit curriculum vitae, a brief description of research plans and the names of three individuals who will serve as references to: **Dr. Douglas M. Stocco, Chair, Search Committee, Program in Molecular and Cellular Biology, Texas Tech University Health Sciences Center, 3601 4th Street, Lubbock, TX 79430 before 1 January 1995. Equal Opportunity Employer.**

COASTAL OCEANOGRAPHY: One-year, September 1994, **Visiting Assistant Professor or Instructor.** Ph.D. or A.B.D. in chemical, physical or biological aspects of oceanography required. Teaching experience in estuarine and near-shore waters and familiarity with Coastal Zone Management preferred. Will teach undergraduate marine science courses and guide student research. Four-vessel fleet and computer-interfaced water chemistry sampling gear allow state-of-the-art research on ocean processes and water quality parameters. Expected salary range \$26,184 to \$33,419, may be higher depending on qualifications, experience and increases in NJ Higher Education Compensation Plan. Screening begins immediately. Send letter, résumé and three letters of reference to: **Dr. Barbara Byrne, Dean, Natural Sciences and Mathematics, The Richard Stockton College of NJ, AA29, Pomona, NJ 08240-0195. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

Duke University, subject to final budget approval, announces a tenure-track **ASSISTANT PROFESSORSHIP** in Cognitive Science. Speciality area to be considered include, but are not limited to: attention, imagery, memory, motor control, and vision in humans. Some combination of computational, developmental, experimental, mathematical, or neuroscience perspectives is preferred. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

Please send a letter of application, vitae, and at least three letters of recommendation to: **Cognitive Science Search Committee, Department of Psychology: Experimental, Duke University, Durham, NC 27708, USA. Applications received by December 1, 1994 will be guaranteed consideration.**

POSITIONS OPEN

DIRECTOR, SCIENTIFIC & MEDICAL AFFAIRS—CARDIOVASCULAR PHYSIOLOGIST, SURGEON, OR BIOENGINEER

To assume major responsibility for R&D program in cardiac assist devices, including clinical investigations, overseeing all facets of device development through regulatory approval to commercialization. Experience in clinical trial design and interface with clinical investigators and the FDA. Medical device industry background. **M.D., Ph.D. or D.V.M. Science Classified Advertising, Box 54, 1333 H Street NW, Rm. 814, Washington, DC 20005.**

The Swiss Federal Institute of Technology Zurich (ETHZ) invites applications for the position of a

PROFESSOR OF GEOLOGY (EARTH-SYSTEM-SCIENCE)

We are seeking a creative scientist with an international reputation and with experience in the analysis and modeling of exogenic processes on various spatial and temporal scales. The new professor should be interested in the study of physical, chemical and biological interactions and processes in the earth-system. Experience in the analysis of geological records (e.g., geochemistry, sedimentology, lake or ocean sediments, etc.) and their numerical modeling and simulation are desirable. The ideal applicant will develop new methods and apply them to innovative multidisciplinary research projects in collaboration with research groups at the ETH, at other Swiss locations, and abroad.

The new professor should be a talented teacher with a multidisciplinary perspective. He/she is expected to participate in teaching introductory earth science courses, to take responsibility for the teaching of advanced classes and seminars and to advise graduate students.

Please submit your application together with a detailed résumé, list of publications, statement of research interests and the names of three potential referees to: **President of ETH Zurich, Prof. Dr. J. Nüesch, ETH Zentrum, CH-8092 Zurich, no later than September 15, 1994. In its effort to increase the number of women in academic top positions, the ETHZ specifically invites applications from women.**

PROFESSOR HARVARD MEDICAL SCHOOL/ CHILDREN'S HOSPITAL

The Harvard Medical School and Children's Hospital jointly invite applicants with a commitment to the broad field of gene therapy for the position of Professor. We anticipate that this individual will direct a premier program of fundamental research and also provide major leadership for gene therapy initiatives throughout Harvard Medical School and its affiliated hospitals. Nominations, letters of application and curriculum vitae should be sent to: **Dr. Stuart H. Orkin, Chairman Ad Hoc Committee, Division of Hematology, Howard Hughes Medical Institute, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Harvard University and Children's Hospital are Equal Opportunity/Affirmative Action Employers and encourage the application of qualified women and minorities.**

SYSTEMATIC DATABASE MANAGER

Harvard University is seeking a **SYSTEMATIC DATABASE (SD) MANAGER** to provide strategic planning, system analysis and overall direction for the development and maintenance of collection information systems for the University's botanical and zoological collections. The SD Manager should have a strong background in academic and/or museum computing with detailed knowledge of the operation of Internet applications. The individual will have oversight responsibility for server systems management including high-level problem solving for resolution of hardware and software failure. The individual will supervise a Microcomputer Systems Specialist to provide technical support for staff, and she/he will participate in collections' community collaborative projects. Requirements: Higher degree in computer and/or biological science with preference for Ph.D. in systematic biology, and at least five years' biological database and network management experience. Send inquiries or letter of application, resume and three references to: **Dr. Robert E. Cook, Harvard University Herbaria, 22 Divinity Avenue, Cambridge, MA 02138.**



**CHAIRMAN
BIOCHEMISTRY AND
MOLECULAR BIOLOGY**

The University of Miami School of Medicine seeks applications from scientists with strengths in the area of molecular biology to fill the position of Chairman of the Department of Biochemistry and Molecular Biology. The University of Miami has significant resources that will be committed to enable the new Chair to strengthen and develop the Department. The Markey Foundation has committed a grant of over \$5M to assist the University in attracting an outstanding individual to lead the Department. The new Chair will recruit a number of new faculty, as well as replace several positions due to anticipated retirements. The Department is housed in a new building of its own, and adequate space is available for expansion. There are presently 16 faculty whose research funding is approximately \$2M in direct costs. Faculty in mid-career with outstanding research records are encouraged to apply. Send letter of application, curriculum vitae, statement of research interests, description of administrative philosophy and teaching experience, three publications, and the names of four references preferably by September 1, 1994 to: Dr. Karl L. Magleby, Chairman, Department of Physiology and Biophysics (R430), University of Miami School of Medicine, P.O. Box 016430, Miami, FL 33101-6430. The University of Miami is an Affirmative Action/Equal Opportunity Employer.



**Director, Centre for Research in
Neurodegenerative Diseases
Faculty of Medicine,
University of Toronto**

The Faculty of Medicine at the University of Toronto is seeking a Director of its Centre for Research in Neurodegenerative Diseases. The Centre has nine independent investigators currently carrying out basic and clinical research related to Alzheimer's and other neurodegenerative diseases. The Centre occupies 15,000 square feet of newly renovated laboratory and office space.

The Director is responsible for the operations of the Centre including the recruitment of investigators. Candidates should have an active basic or clinical research program, relevant to neurodegenerative diseases, a strong record of scholarly achievement, leadership qualities and administrative skills. The successful applicant will be given a full-time academic appointment, as Associate Professor or Professor, in an appropriate department of the Faculty of Medicine.

Applications should be sent to: Dr. Arnie Aberman, Dean, Faculty of Medicine, University of Toronto, Room 2109, Medical Sciences Bldg., 1 King's College Circle, Toronto, Ontario, M5S 1A8, FAX (416) 978-1774. Applicants should enclose a current curriculum vitae.

The University of Toronto encourages applications from qualified men and women, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Closing date for applications is October 14, 1994.

RESEARCH UPDATE

Cyanamid continues its commitment to enhancing worldwide livestock production.

At American Cyanamid Company's Agricultural Research Division, we have a long-range commitment to discovering ways to increase worldwide livestock production through chemical, biochemical and biological research. This commitment is evidenced by our expanding research budget which has tripled over the last decade. Currently, we seek team players for the following:

Research Poultry Scientist/Avian Physiologist (PhD)

You will be a key member of the Animal Science and Therapeutics Group engaged in the discovery and evaluation of novel methods for improving poultry growth performance. Collaborate with other Research Scientists throughout Animal Industry Discovery including molecular biology, chemical synthesis, biochemistry and molecular genetics screen design in an effort to achieve this goal. Opportunity exists for both basic and applied research in this area. Laboratory and field evaluations are expected. Position requires a PhD in Poultry Science or Avian Physiology with experience conducting field research. Expertise in poultry nutrition and parasitology is a plus. (Ref. KH)

Post-Doctoral Molecular Biologist

This is a post-doctoral position for a 2 year period for a Molecular Biologist with an interest in exploring new targets for the advancement of animal health. You will participate in a program in which molecular biology techniques are used to select novel targets and to design screens that will identify compounds useful in controlling animal parasites. We require a PhD in Molecular or Cell Biology with a strong background in molecular biology and experience in standard techniques, such as cloning/sequencing, library screening and PCR. Expertise in heterologous gene expression in E.coli and yeast is desired. (Ref. DK1)

Senior Product Registration Manager (PhD/DVM)

You will be responsible for coordinating the preparation of U.S. and international product registration dossiers. You will establish working relationships with FDA review personnel, organize visits to the FDA and act as liaison with the FDA in regards to U.S. registration requirements. Position requires a Veterinary (DVM) or Animal Science (PhD) background and pharmaceutical (human or animal) regulatory experience. A knowledge of U.S. and international regulatory requirements with the ability to interact with the FDA and advise staff on the interpretation of these requirements is essential. (Ref. JA)

Biologist (BS/MS)

Your work will be focused on selecting pharmacological and molecular targets and utilizing them in screens designed to identify new antiparasitic and performance enhancing compounds. Our approach will utilize correlated *in vitro* and *in vivo* pharmacological studies, characterization of neurotransmitter and hormone receptors and, if necessary, molecular cloning of new drug targets. Active compounds emerging from your screens will be exploited in collaboration with our medicinal chemistry and animal health groups. Your background should include experience with radioligand binding assays and data analysis, cell culture and tissue preparation, and basic methods of protein chemistry such as HPLC, FPLC, SDS-PAGE, etc. Experience in molecular biological methods such as PCR, cDNA library screening, and DNA sequencing is desirable but not essential. Industrial experience is preferred. (Ref. DK2)

Immunochemist (MS)

You will be responsible for developing/improving growth promoting vaccines, with particular emphasis on generating high quality and uniform peptide conjugate preparations for target animal species. The successful candidate will possess a Master's degree in Biological Science with a strong background in immunochemistry, biochemistry, protein/peptide chemistry, and general immunobiology. Experience in vaccine development, peptide synthesis, carrier conjugation, quantitative chemical analysis, animal handling, antibody production and evaluation is essential. Familiarity with all related technical procedures to carry out experiments is required. You should be able to design appropriate experiments to systematically improve vaccine efficacy and continuously monitor the process of the development. Industrial experience is desired. (Ref. DC)

American Cyanamid Company offers an excellent compensation and benefits package which includes 401(k) savings plan, flex-time work schedules and a convenient location one hour from New York City or Philadelphia. To explore these opportunities, please forward your resume, noting the appropriate reference for the position of your choice, to: Employment Office, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer.



POSITIONS OPEN

MOLECULAR GENETICIST-CYTOGENETICIST. The Applied Genetics group of companies is searching for a **DIRECTOR** for its DNA laboratory. Candidates must be Board eligible or certified in molecular genetics; cross certification in cytogenetics is desirable. The Applied Genetics group provides comprehensive services in Austin, San Antonio and surrounding areas. The DNA laboratory, located in Austin (population 450,000) offers many advantages of private practice and a comprehensive package of benefits. Contact:

Ronald J. Jorgenson, DDS, Ph.D., FACMG
Diagnostic Network of America
4201 Marathon Boulevard, Suite 206
Austin, TX 78756
Telephone: (512) 451-5173; FAX: (512) 451-5175

CHIEF OF STAFF: Harry S. Truman Memorial Veterans' Hospital in Columbia, Missouri is seeking qualified candidates for Chief of Staff position. This Veterans Administration Medical Center is a highly affiliated, complex, tertiary care facility located on the campus of the University of Missouri-Columbia. Incumbent is fully responsible to hospital director for patient care programs and educational/research activities of clinical services with close relationship to affiliated medical school as Associate Dean for Veterans Affairs. Individuals selected must have management experience in graduate and undergraduate medical education as well as clinical affairs. Selection is also dependent upon faculty appointment with affiliated medical school. Columbia offers an urban and college town atmosphere. St. Louis, Kansas City and Lake of the Ozarks recreation areas are all within easy driving distance. Interested candidates should submit current curriculum vitae to: **Chairman, COS Search Committee (160), HSTMVH, 800 Hospital Drive, Columbia, MO 65201.**

ASSOCIATE DIRECTOR FOR THE WEST-EAST CENTRE FOR MICROBIAL DIVERSITY

The West-East Centre (WEC) is a collaborative venture between the National University of Singapore and the University of British Columbia. WEC is associated with the Department of Microbiology and Immunology and is directed by Dr. Julian Davies. Its goals are to investigate microbial diversity and its molecular diversity using novel approaches. The Associate Director would be responsible for the day-to-day administration of WEC and would be expected to contribute substantially to the research program. Candidates should provide evidence of experience with modern molecular microbiology and the ability to organize and direct innovative research. Candidates should possess a Ph.D. and have had several years' experience in postdoctoral research. This is a three-year appointment, non-tenure-track position; a possible adjunct assistant professorship. The effective date of appointment is January 1, 1995. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents. Please submit application, together with the names of three referees to: **Dr. Julian E. Davies, Director, West-East Centre for Microbial Diversity, 300 - 6174 University Boulevard, Vancouver, B.C. Canada V6T 1Z3.** Applications should be received by October 30, 1994. *The University of British Columbia welcomes all qualified applications, especially women, aboriginal people, visible minorities, and persons with disabilities.*

FACULTY POSITION MOLECULAR GENETICS OF EYE DISEASE

Outstanding opportunity to join rapidly growing laboratory devoted to investigation of molecular genetics of eye disease including glaucoma and retinal and macular degeneration. New, superbly equipped facility. Experience with gene mapping and positional cloning technology is preferred. Faculty rank at Tufts University School of Medicine commensurate with experience. Please send curriculum vitae and three letters of recommendation to: **Carmen A. Puliafito, M.D., Director, New England Eye Center, 750 Washington Street, Boston, MA 02111. FAX: (617) 956-4215.**

POSITIONS OPEN

CANCER CLINICAL PHARMACOLOGY Jefferson Medical College

Applications are invited for a **FACULTY POSITION** in cancer clinical pharmacology. This new position involves a joint effort between the Division of Clinical Pharmacology and the Division of Neoplastic Diseases. The successful candidate, who will have training in both clinical pharmacology and oncology, will be expected to develop an active research program in cancer clinical pharmacology. Send curriculum vitae and names and addresses of three references to: **Dr. Thorir D. Bjornsson, Division of Clinical Pharmacology, Department of Medicine, Jefferson Medical College, 1100 Walnut Street, Philadelphia, PA 19107-5563.** *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS IN STRUCTURAL BIOLOGY

Case Western Reserve University (CWRU) School of Medicine and The Cleveland Clinic Foundation are jointly recruiting for several tenure-track junior and senior positions. Candidates with strong credentials in the study of protein structure with X-ray diffraction or NMR spectroscopic techniques are encouraged to apply.

Successful candidates will have appointments in both institutions and space within a basic science department at CWRU.

Terms are highly competitive, and an appointment provides excellent opportunities to develop strong independent research programs within a newly established Center for Structural Biology shared by two top-ranked, expanding institutions.

Exceptionally well qualified candidates may also be considered for the Directorship of the Center.

Submit curriculum vitae, brief statement of interest and proposed research interest and names of four references to: **Structural Biology Search Committee, Department of Physiology and Biophysics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4970.** *Case Western Reserve University and The Cleveland Clinic Foundation are Equal Opportunity/Affirmative Action Employers.*

NEUROBIOLOGY FACULTY POSITIONS

The Neurobiology Research Center at the University of Alabama at Birmingham (UAB) School of Medicine invites applications for tenure-track or tenured faculty positions. The Center is seeking outstanding individuals with strong records of achievement using modern approaches to neurobiology whose interests complement those of current members. Interests of the faculty include neuronal-glia ion channel function, synaptic transmission and plasticity, growth cone navigation, development and information processing in sensory systems, signal transduction and intracellular signaling. The Center has excellent research facilities and has recently been provided with new space in the Civitan International Research Complex on the UAB campus. The development of the Center is supported by funds from the UAB School of Medicine and the Lucille P. Markey Charitable Trust. An award from the W. M. Keck Foundation will support the establishment of new laboratories in molecular neurobiology, neurophysiology and neural imaging.

Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: **Michael J. Friedlander, Ph.D., Faculty Search Committee, Neurobiology Research Center, 1719 6th Ave. So., CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021** by September 15, 1994. *UAB is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available in September 1994 to study control of zebra mussels with microbial toxins. Applicants must have Ph.D. (or M.S. with exceptional experience) in a biological science. Experience in microbiology and bacterial culture techniques required; expertise in invertebrate culture techniques desired. Proven record of publications and grant-writing preferred. Physical fitness and SCUBA certification preferred for lab/field work. Position available for 2 years; salary starts at \$28,000 and is commensurate with experience. Submit curriculum vitae and three references to: **Dr. Daniel P. Molloy, Biological Survey, New York State Museum, Field Research Laboratory, RD 1—Box 151, Cambridge, NY 12816.** *Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS IN MOLECULAR BIOLOGY AND MOLECULAR PHARMACOLOGY

The Department of Pharmacology and Molecular Biology at The Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at all levels. Only those with an ongoing, funded research program or assurance of research support need apply. Preference will be given to those experienced in molecular/biochemical pharmacology and any aspect of gene expression. Attractive benefits and start-up funds are available. The school is located in a modern facility adjacent to the very pleasant North Shore community of Lake Bluff, 38 miles from downtown Chicago with proximity to forest preserves and Lake Michigan. The department under new leadership has already recruited several faculty of high caliber. Excellent core facilities and strong graduate program (Ph.D. and M.D./Ph.D.) are available. Please send curriculum vitae, research plans and three names for reference to: **Dr. Samson T. Jacob, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.** *The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS IN THE IN VITRO EVOLUTION OF PROTEINS

Positions currently available for individuals interested in the *in vitro* evolution of protein structure and function, including catalytic and therapeutic antibodies and DNA binding proteins. Research opportunities include the development of antiviral proteins, mechanistic characterization of evolved catalysts, and structural characterization by X-ray crystallography and NMR with collaborators. A major focus of this work is directed to the development of novel anti-HIV-1 strategies including therapeutic antibodies, vaccines, and the development of novel gene therapy strategies. A doctoral degree with a background in molecular biology, organic chemistry, or biochemistry is required. Applicants with a structural background and interest in designing and evolving proteins are encouraged to apply. Send curriculum vitae and three references to: **Dr. C. F. Barbas, Department of Molecular Biology, MB-11, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037. FAX: (619) 554-6778.**

TWO POSTDOCTORAL RESEARCH POSITIONS available immediately at The Johns Hopkins University School of Medicine for molecular/cell biologists in the areas of: 1) membrane protein trafficking mechanisms involved in the regulation of epithelial cell polarity and 2) protein kinase-mediated signal transduction in epithelia. The successful candidates will join a team of scientists involved in the study of renal cell development and differentiation and abnormalities therein determined by genetic diseases. A Ph.D. and demonstrated experience in cell and molecular biology techniques are required. To apply for this position, qualified candidates should send curriculum vitae, letter with a description of research experience, and the names, addresses and telephone and FAX numbers of three references to: **Patricia D. Wilson, Ph.D., 954 Ross Research Building, The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. Telephone: (410) 614-1650; FAX: (410) 955-0485; Email: PWILSON@JHUIGF.MED.JHU.EDU.** *Equal Opportunity Employer/Minorities/Females/Handicapped. Drug-free and smoke-free.*

PROTEOLYCAN IN ALZHEIMER'S DISEASE

One POSTDOCTORAL POSITION available (September 1, 1994) in the laboratory of Dr. Alan Snow in the Department of Pathology at the University of Washington in Seattle. Research in Dr. Snow's lab focuses on the role of proteoglycans in the pathogenesis of amyloidosis in Alzheimer's disease (AD). Candidates with experience in molecular biology (Northern, Southern, cloning, PCR etc.), *in-situ* hybridization and production of transgenic animals are preferentially sought. Money for a 3-year postdoctoral fellowship available. Applicants send curriculum vitae and reference list to: **Dr. Alan Snow, University of Washington, Department of Pathology, Neuropathology Labs RJ-05, Seattle, WA 98195.** Preferential candidates will be invited to Seattle to interview.



NEW JERSEY MEDICAL SCHOOL

ASSOCIATE DEAN FOR RESEARCH AND SPONSORED PROGRAMS

The University of Medicine and Dentistry of New Jersey-New Jersey Medical School invites nominations and applications for the position of Associate Dean for Research and Sponsored Programs. Reporting directly to the Dean of the New Jersey Medical School, the Associate Dean for Research and Sponsored Programs is responsible for research development and coordination, research support services, liaison with outside agencies, oversight of the research animal facility and Institutional Review Board, and student summer research programs. The school seeks an individual with strong research, administrative and academic experiences and familiarity with extramural funding agencies. An earned doctorate degree in an academic field or profession from an accredited institution is required.

For additional information or to apply, send your curriculum vitae to:

Linda C. Reich • Office of the Dean
UMDNJ-New Jersey Medical School
MSB - C 662 • University Heights
185 South Orange Avenue
Newark, New Jersey 07103-2714

Equal Opportunity/Affirmative Action Employer M/F/D/V

Postdoctoral Research Position

School of Biological Sciences - Zebra Fish Development

Vacancy UAC.451

A postdoctoral position is available for a suitably qualified candidate to join a small group studying the molecular biology of muscle development in the Zebra Fish. A background in molecular biology techniques is essential.

The position is funded for two years at NZ\$35,000 per annum. Some assistance will be available for return travel expenses.

For further information please contact Dr Clive Evans, Developmental Biology and Cancer, School of Biological Sciences, The University of Auckland, telephone 64-9-373 7599 ext 7245, fax 64-9-373 7417, email: C.Evans@Auckland.AC.NZ.

Applications in the form of a detailed CV including the contact details for two or more referees close with The Registrar, The University of Auckland, Private Bag 92019, Auckland, New Zealand on **28 August 1994**.

Please quote Vacancy Number UAC.451 in all correspondence.

W B NICOLL, REGISTRAR



New Zealand

*The University has an equal opportunities policy
and welcomes applications from all qualified persons*



FACULTY POSITION BIOMEDICAL LASER RESEARCH



A faculty position at the level of Assistant, Associate, or Full Professor is available at the New England Eye Center, Tufts University School of Medicine, to conduct ophthalmic laser research and to develop novel techniques for optical tomography and laser surgery. Potential candidates should have a strong background in optics and lasers, good communication skills, and an ability to work closely with clinical investigators. A Ph.D. degree in physics, biomedical engineering, biophysics, optics, or related field is preferred. Successful candidate will develop his or her own independent research program. Please send CV and three letters of recommendation to Carmen A. Puliafito, M.D., Director, New England Eye Center, 750 Washington Street, Boston, MA 02111, FAX (617) 956-4215.

DIRECTOR

The Centre for Biodiversity Research
The University of British Columbia

The University of British Columbia invites applications for the position of Director of the newly established Centre. Appointment will be at the Associate or Full Professor level in an appropriate Department. Salary will be commensurate with experience.

The Centre of Biodiversity Research, an interdisciplinary research unit in the Faculty of Science, brings together faculty with biodiversity research interests, and will focus on the development of comprehensive and rigorous theories for evaluating and conserving the earth's biological resources. Subsidiary objectives are centred around the development of new methods for biodiversity inventory and monitoring, and the development of new taxonomic data. The Director will be expected to promote and foster these objectives, and develop an internationally relevant collaborative program in biodiversity, and thus is expected to have had wide experience in one or more appropriate fields, and an international reputation in biodiversity. All areas of biodiversity research will be considered; applicants with experience and expertise in botanical systematics with interest in the application of molecular techniques will receive preferential consideration. The appointee will be expected to develop a strong research program and teach in appropriate graduate and undergraduate courses. **Starting date will be July 1, 1995, subject to final budgetary approval.**

There are over 50 faculty members at the University of British Columbia with interests in biodiversity research. Approximate equal strength is present in the Molecular/Genetic group, the Biological elements group and the two subgroups (Ecosystem scale research and Population research) within the Ecological resources group. The University has extensive systematic collections in both botany and zoology relevant to this biodiversity initiative. Planning is underway for new laboratory and office space for the Centre.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities.

Curriculum vitae, the names of three referees, and a brief outline of expertise and research interests should be submitted **before closing date of October 1, 1994** to:



Dr. G.G.E. Scudder, Interim Director
Centre for Biodiversity Research
Faculty of Science
The University of British Columbia
Room #1505, 6270 University Boulevard
Vancouver, B.C. CANADA V6T 1Z4
Fax: (604) 822-5558

POSITIONS OPEN

PROTEIN-PROTEIN INTERACTIONS POSTDOCTORAL POSITION

Interactions between subunits of a protein kinase and with its target proteins will be studied using molecular biology, immunochemistry, immunoelectron microscopy, synthetic peptides and protein chemistry. Position open beginning September. Please send a curriculum vitae and names, addresses and telephone numbers of three references to: **Dr. Gerald M. Carlson, Department of Biochemistry, University of Tennessee, 800 Madison Ave., Memphis, TN 38163. The University of Tennessee is an Equal Opportunity/Affirmative Action/ Titles VII and IX/Section 504/ADA Employer.**

POSTDOCTORAL POSITIONS (Two) are available for scientists interested in the study of the mechanisms of signal transduction and regulation of G protein-coupled receptors and/or the function and biology of neurotransmitter transporters. Preference will be given to individuals with strong molecular biology and/or biochemistry background. Candidates should send curriculum vitae and three letters of reference to: **Dr. Marc G. Caron, Departments of Cell Biology and Medicine, Box 3287, Duke University Medical Center, Durham, NC 27710. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study the role of POU/homeodomain genes in the development of the embryonic mouse CNS. Relevant techniques include *in situ* hybridization, transgenic mice and embryonic stem cell technology. Experience in molecular biology required. Please send cover letter, curriculum vitae and the addresses and phone numbers of three references to: **E. Bryan Crenshaw, Ph.D., Department of Neuroscience, 215 Stemmler Hall, The University of Pennsylvania, 36th & Hamilton Walk, Philadelphia, PA 19104-6074. FAX: (215) 573-2015.**

POSTDOCTORAL ASSISTANT

Postdoctoral positions are available to study enzymatic catalysis in organic solvents, both fundamental and applied projects. Expertise in enzymology, biochemistry, chemical engineering, or synthetic chemistry required. Send curriculum vitae and three letters of recommendation to: **Professor Jonathan S. Dordick, Department of Chemical & Biochemical Engineering, University of Iowa, 129 Chemistry Building, Iowa City, IA 52242. Position open until filled. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL position available in 1995 to study the role of lectins and cell surface glycoconjugates in angiogenesis. Candidates should have a Ph.D. or M.D. with expertise in biochemistry or molecular and cell biology. Send curriculum vitae and the names of three references to: **Joyce Bischoff, Ph.D., Department of Surgery, Children's Hospital and Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115.**

BONE RESEARCH PROGRAM

POSTDOCTORAL FELLOW: Seeking Ph.D. with experience in bone/cartilage research. Successful candidate will assess safety and efficacy of bone allograft products and explore new biotechnologies for bone formation.

RESEARCH TECHNOLOGIST: Seeking individual with experience in experimental surgery, tissue culture, and laboratory biochemical and analytical techniques. Requires B.S., preferably in biology or biochemistry.

Competitive salary and excellent employee benefits. Submit curriculum vitae and three references (Postdoctoral position candidates must also submit selected publications) to: **William Drohan, Ph.D., Holland Laboratory, American Red Cross, Plasma Derivatives Department, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer, minorities/females/disabled/veterans.**

A POSTDOCTORAL FELLOWSHIP is available to study signal transduction through the sphingomyelin pathway, a new signaling system mediating TNF and IL-1 action. Studies will focus on RAF and MAP kinases, NF- κ B, HIV and apoptosis. Salary is \$29,000 per year. M.D. or Ph.D. acceptable. Please send curriculum vitae to: **Dr. Richard Kolesnick, Head, The Laboratory of Signal Transduction, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.**

POSITIONS OPEN

POSTDOCTORAL POSITION open for a recent Ph.D. to study the role of protein phosphatases in cell cycle control using a variety of approaches including molecular genetics, cell biology and biochemistry (see *PNAS* 91: 6408-6412, 1994). Candidates with prior experience in heterologous expression in mammalian cells and/or protein phosphorylation research are especially encouraged to apply. Send curriculum vitae, a short statement of research interests and the names/addresses of three referees to: **Norbert Berndt, Ph.D., Childrens Hospital Los Angeles, Box 83, 4650 Sunset Boulevard, Los Angeles, CA 90027. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to conduct basic research on sodium channel expression in the cardiovascular system. Prior experience in molecular biology required; experience in immunocytochemistry, cell culture, and protein chemistry desired. Submit curriculum vitae, a description of research experience, and names, addresses, and telephone numbers of three references to: **Sidney A. Cohen, M.D., Ph.D., 522A Johnson Pavilion, 3610 Hohen Walk, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6060.**

POSTDOCTORAL FELLOWSHIP IN ARTHRITIS GENE THERAPY. We are seeking a well-trained, motivated molecular biologist to join a team of researchers who are conducting pre-clinical arthritis gene therapy studies at a leading arthritis research center. The candidate would be involved in studies to test the feasibility of using gene transfer techniques to modify mechanisms underlying arthritis. Experience with transfections, Northern blots, RT-PCR, CAT assays, vector construction and packaging, molecular cloning and plasmid purification is desired. Position requires a Ph.D. degree. FAX or send curriculum vitae and two letters of recommendation to: **William J. Koopman, M.D., Howard L. Holley Professor of Medicine, Director, Division of Clinical Immunology and Rheumatology, The University of Alabama at Birmingham, Birmingham, AL 35294. FAX: (205) 934-1564. Position available July 1, 1994. UAB is an Affirmative Action/Equal Opportunity Employer.**

JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for a **RESEARCH POSTDOCTORAL FELLOWSHIP** in molecular and cell biology of intestinal ion transport. Research deals with gene expression in epithelial cells of a family of mammalian Na/H exchangers including structure/function, phosphorylation, and plasma membrane sorting studies. Previous experience in molecular and cell biologic techniques is desirable. Candidates should be U.S. citizens or have permanent residency. Send a curriculum vitae and names of two referees to: **Mark Donowitz, M.D., Chief, GI Unit, Departments of Medicine and Physiology, Johns Hopkins University School of Medicine, 918 Ross, 720 Rutland Ave, Baltimore, MD 21205-2195. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS

Hawaii Natural Energy Institute, School of Ocean and Earth Science and Technology, University of Hawaii, extramural funds. To begin approximately October 1, 1994, through September 30, 1995; continuation dependent upon availability of funds. **TRAINING TO BE PERFORMED:** Participate in research of marine macroalgal physiology (biomass), and/or microbial and/or cyanobacterial physiology/genetics (hydrogen). **QUALIFICATIONS:** Ph.D. in Botany or related discipline. **DESIRABLE QUALIFICATIONS:** Applied research in energy alternatives development, and/or engineering systems production design. **INQUIRIES:** Dr. Kelton McKinley at (808) 956-2346. **ANNUAL STIPEND:** \$33,000 to \$40,000. To apply, submit statement of research interest, curriculum vitae, three letters of recommendation from work-related references, and samples of 2 relevant authored publications to: **Personnel Officer, Hawaii Natural Energy Institute, 2540 Dole Street, Holmes 246, Honolulu, HI 96822. Closing date: September 6, 1994. Equal Employment Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Ph.D. in biochemistry, molecular biology, or related area with research experience in protein purification or DNA manipulation to conduct studies on NIH funded project in gene regulation during development. Send curriculum vitae and the names, telephone numbers, and addresses of three references to: **Dr. Grace Jones, Molecular and Cellular Biology Section, School of Biological Sciences, University of Kentucky, Lexington, KY 40506. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

position available to study endocytosis and acidic organelles in the amoeba, *Dictyostelium discoideum*, using techniques of biochemistry, cell and molecular biology. Please send your credentials and the names of the scientists who best know your work to: **Dr. Theodore L. Steck, Department of Biochemistry and Molecular Biology, University of Chicago, 920 E. 58th Street, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Positions are available on an ongoing basis to conduct research within different research groups in the Institute of Molecular Biology at the University of Oregon. The purpose of this notice is to establish and maintain a pool of qualified applicants. Ph.D. in molecular biology or related field is required. Women and minorities are urged to apply. Salary dependent upon experience. **For application materials, please call: (503) 346-5151. An Equal-Opportunity/Affirmative Action institution committed to cultural diversity and compliance with the Americans with Disabilities Act.**

CLINICAL CYTOGENETICIST—The Department of Molecular and Human Genetics, Baylor College of Medicine, seeks an individual who is board certified by the American Board of Medical Genetics in both clinical cytogenetics and clinical genetics. This position will involve clinical service in both the Kleberg Cytogenetics Laboratory and the departmental genetics clinics. The Kleberg Cytogenetics Laboratory is a full-service diagnostic laboratory that processes approximately 3,500 prenatal and peripheral blood specimens annually and has a large molecular cytogenetics component. Departmental genetics clinics include prenatal, pediatric, adult, and metabolic clinics. The human and molecular genetics research environment at Baylor and the Texas Medical Center is outstanding, offering substantial opportunity for collaborative research activities. Salary range: \$55,000 to \$65,000. Please send a curriculum vitae, letter of interest, and three letters of reference to: **Edward R. B. McCabe, M.D., Ph.D., Department of Molecular and Human Genetics, Room S-921, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-3498; Telephone: (713) 798-5820; FAX: (713) 798-5881. Baylor College of Medicine is an Equal Opportunity Employer/Affirmative Action Employer.**

BIOPHARMACEUTICAL Nationwide Career Positions

B.S. and M.S. level Scientists
(some Ph.D. level positions available)

Cell/Tissue Culture
Protein Chemistry (HPLC)
Microbiology
Biochemistry
Immunology
Process Development
(positions available in other disciplines)
Company Fee Paid

James E. Iannoni & Associates
Biopharmaceutical Personnel Recruiters
P.O. Box 66
Hampton, CT 06247
Telephone: (203) 455-0151
FAX: (203) 455-1244

HUMAN CELLULAR THERAPY

Cellco develops biotherapeutic products and systems for expansion of hematopoietic stem cells for human therapy. Our R&D Division is a collaborative team of professionals with focused hands-on participation in supporting our clinical program. We currently seek the following scientist:

ANALYTICAL CHEMIST/BIOCHEMIST

This position requires a Ph.D. in Analytical Biochemistry or Analytical Chemistry, 3-8 years of postdoctoral training and experience with development and validation of spectroscopic, chromatographic, immunochemical analytical techniques. Experience in protein chemistry, tissue culture techniques, computer programming and instrument networking will also be helpful. Preference given to persons who have established an industrial analytical laboratory and have a detailed knowledge of GLP/GMP.

The successful applicant will play a key role in advancing Cellco science into early patient treatment. We offer a competitive compensation and benefits package and the opportunity to design your own laboratory. Please send or Fax your CV, publications list and addresses, telephone and FAX numbers of three references to: Fax (301) 916-1010. Cellco, Inc., Human Resources, 12321 Middlebrook Road, Germantown, MD 20874. E.O.E.

Cellco
INCORPORATED

University of Virginia School of Medicine Chairperson, Department of Biochemistry

The University of Virginia School of Medicine invites applications and nominations for chairperson of the Department of Biochemistry. The Department of Biochemistry is one of five basic science departments within the School of Medicine. It is particularly noted for its strengths in the areas of quantitative structural biology and membrane biophysics. The department has a well-established and strong graduate program, and participates in the education of medical students as well as in a combined M.D./Ph.D. program. The University of Virginia has an outstanding research reputation and is in the process of expanding each of the basic science departments in the School of Medicine. An exceptional recruitment package is available, including new tenure-track positions, and expanded departmental space in a new research building.

Candidates for this position should have a Ph.D. and/or M.D. degree, a distinguished record of scholarly activity, an internationally recognized research program, the ability to administer a comprehensive academic program, and proven leadership skills. Applications are encouraged from outstanding scientists in a wide range of disciplines, including biochemistry, biophysics, molecular biology, cell biology, structural biology, or molecular regulation of gene expression. The University of Virginia is noted for its strengths in the areas of signal transduction and protein structure, and we hope to attract an individual who will complement and/or enhance these two areas of strength.

Interested individuals should submit a letter of application, curriculum vitae, a research summary, and three references to Gary K. Owens, Ph.D., Chair, Search Committee, Dept. of Molecular Physiology and Biological Physics, University of Virginia School of Medicine, Box 449, Charlottesville, VA 22908.

The University of Virginia is an affirmative action/equal opportunity employer. Women and under-represented minorities are encouraged to apply.

National Center for Human Genome Research National Institutes of Health Visiting Investigator Program

The Visiting Investigator Program provides faculty level scientists from outside the NIH with the opportunity to spend a 3-12 month period at the National Center for Human Genome Research (NCHGR) laboratories and clinics at the NIH. Visiting investigators can use their stay at the NCHGR to learn new technologies, develop research collaborations, or pursue sabbatical research projects. Basic and clinical genetic researchers and social scientists may access the Center's laboratories, core facilities, clinics, and training programs for study in any area of human genetic disease, including the social implications of genetic research. Partial funding of salary support is available, as well as all funding for research related expenses while at the NIH. Project proposals extending to one year are preferred in order to enhance the possibility of accomplishing research objectives. Applications may be initiated by submitting: a curriculum vitae, a cover letter describing the proposed project to study or collaborative effort (including the time frame proposed to complete the study), and a supporting letter from the candidate's department head (or equivalent). Applications are accepted throughout the year with the program commencing January 1, 1995. Applications for the cycle beginning January 1, 1995 must be received by September 1, 1994.

For Program application information
or questions, contact:

Betty Wolf, Director
Visiting Investigator Program
NIH/National Center for
Human Genome Research
Building 49, Room 4A28
9000 Rockville Pike
Bethesda, Maryland 20892
Tel: (301) 402-2012
Fax: (301) 402-2440
e-mail: wolfie@helix.nih.gov

Women and minority candidates are strongly
encouraged to apply.



Bristol-Myers Squibb Company

Uncompromising Science

In 1994, Bristol-Myers Squibb will invest more than \$1 billion in research and development. Our 3,800 scientists and support personnel are dedicated to achieving and sustaining a pre-eminent position in the design and development of breakthrough, cost-effective therapies.

PRINCETON, NJ

Pharmacokinetics Research Investigator Pharmacokineticist, Ph.D.

This position is directly responsible for the development of study designs and research protocols and the formation of new approaches to drug development. Requires a Ph.D. in Pharmacokinetics and 2 - 5 years postdoctoral experience which includes advanced knowledge related to pharmacokinetics and its application to drug development. Your background should also include experience conducting clinical and non-clinical pharmacokinetic studies, including preparation of protocols and final study reports. Reply to Dept. MG-161.

Oncology Drug Discovery Research Scientist Biologist, BS/MS

The Experimental Therapeutics Department is seeking a research associate to join a team of scientists involved in identifying novel approaches for cancer therapy. The scientist will participate in studies of the in vitro and antitumor activity of monoclonal antibody immunoconjugates.

Candidates should possess a BS/MS in Biology with a minimum of 1 year experience in mammalian cell culture and in vivo biology. Experience in tumor xenograft models and athymic mouse models desirable. Reply to Dept. MG-78.

Resumes for Princeton, NJ openings should be forwarded to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Dept., P.O. Box 4000, Princeton, NJ 08543-4000.

Equal Opportunity Employer,
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WALLINGFORD, CT

Virology Research Scientists Multiple Opportunities

The Virology Discovery Group has several research positions available for highly motivated individuals interested in the discovery and development of novel antiviral compounds. Candidates should have a B.S. or M.S. with 2-3 years industry or research laboratory experience. Successful candidates will possess skills in the areas of cell culture, molecular biology and/or biochemistry. Prior experience with viral research is highly desirable. Reply to Dept. HD-195.

CNS Discovery Group Research Investigator Molecular Biologist, Ph.D.

Join a team of scientists engaged in the cloning and characterization of novel G protein-coupled receptors. Applicants must have a Ph.D. and a minimum of 3 years postdoctoral experience. Extensive experience in common molecular biological techniques such as cDNA library construction and screening, polymerase chain reaction, site-directed mutagenesis, Northern and Southern blotting and expression of cloned genes in prokaryotic and eukaryotic cells is required. Experience in expression cloning techniques, protein purification and/or antisense technology would also be an asset. The successful candidate should be familiar with modern principles of neurobiology and must have a collaborative, interactive personality. Reply to Dept. HD-207.

Research Investigator Electrophysiologist, Ph.D.

This is a challenging opportunity for a Ph.D. Electrophysiologist/Ion Channel Biophysicist who has a minimum of 3 years postdoctoral experience. We seek a collaborative researcher with in vivo and in vitro experience including whole cell voltage and patch clamping techniques, preparation and recording from oocyte expression systems and from tissue culture. Additional experience with intracellular and extracellular recordings from brain slices is considered an asset. The successful candidate should be conversant with neurochemical, neuroanatomical, as well as cell and molecular biological techniques necessary for the characterization of neuronal effects of drug candidates and for identifying potential targets for drug development. Reply to Dept. HD-0177.

Resumes for Wallingford, CT openings should be forwarded to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 5101, Wallingford, CT 06492.

ORQUEST, INC.

Orquest, Inc. is a new emerging company focusing on the development of biological products for regeneration of connective tissue diseases. Orquest's mission is to be a uniquely positioned biotechnology company entering the orthopedics market by developing and commercializing patented biomatrices allowing active growth and regeneration of bone, cartilage, and soft skeletal tissues.

Orquest is seeking to build a team of highly successful scientists who will contribute to the creation of a unique and successful research and product development program.

- **Senior Scientist: Cartilage Biochemistry**

We seek an accomplished individual to lead a small group of scientists involved in a basic and applied research program in the area of cartilage regeneration and repair. We are especially interested in someone with a strong background in animal research. The successful candidate will have a Ph.D. or DVM with at least five years of post graduate experience involving *in vitro* and animal modeling of cartilage repair.

- **Scientist: Polymer Chemistry**

We are seeking a scientist who will evaluate and utilize biopolymers toward the development of tissue regeneration matrices. You will develop and scale up matrix fabrication processes, collaborate with outside contract polymer synthesis sites, and bring expertise in GLP, SOP and GMPs to all phases of the company's operations. The successful candidate will have a Ph.D. in Chemistry with at least five years of industrial experience in developing processes for the controlled release of proteins and growth factors.

- **Scientist: Bone Cell Biology**

We seek an accomplished scientist who will lead our bone cell biology group in evaluating matrices for bone grafting. This position requires a Ph.D. in Biology or related discipline with three years' experience in culturing and evaluating bone cells.

- **Protein Chemist: Collagen Chemistry**

You will collaborate with other scientists in developing collagen matrices for cartilage and bone regeneration. This position requires a BS/MS in Chemistry or Biochemistry with experience in collagen characterization, modification, and evaluation.

- **Histologist**

We are seeking an individual with experience in mineralized tissue histology. You will be using histological techniques to evaluate materials developed for bone and cartilage regeneration. This position requires a BS level certified Histologist or Histologist Technician (HT) or Histotechnologist (HTL) with three years of related experience.

- **Biochemist**

You will be involved in developing *in vitro* and *in vivo* models of cartilage regeneration. You must have extensive experience in culturing chondrocytes and in characterizing their extra-cellular matrix molecules. The successful candidate will have a minimum of five years' experience in cartilage biochemistry along with a BS/MS in Chemistry or Biochemistry.

Orquest offers highly competitive salaries, a benefit package which includes stock participation and the opportunity to contribute to a new and exciting area of therapeutic product development. Please submit your resume or curriculum vitae to: Orquest, Inc., Human Resources Department, 365 Ravensdale Drive, Mountain View, CA 94043, Orquest is an equal opportunity employer.



Temple University School of Medicine

Associate Dean for Research and Biotechnology Transfer

Temple University School of Medicine is seeking an established scientist with MD, Ph.D. or MD/Ph.D. degree and reputation in basic research. Credentials to qualify for appointment as Associate or Full Professor. Qualifications include successful competition for external peer-reviewed grants; detailed understanding of federal, philanthropic and industrial research funding; knowledge/experience in biotechnology transfer; and demonstrated leadership in research. Experience in administering academic unit preferred. Individual will direct Office of Sponsored Projects; develop and maintain record of research activities throughout school; develop tracking system for grants in process of being submitted; stimulate and coordinate research activities among school's academic units; and maintain ongoing knowledge of research opportunities. Requires strong interpersonal, organizational, and communication skills. May continue own research program and/or have appropriate teaching responsibilities. Interested individuals should send CV's and bibliographies to: **Allen R. Myers, MD, Dean and Associate Vice President, HSC, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.**

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS IN HUMAN CANCER BIOLOGY

University of Wisconsin-Madison

The Department of Human Oncology and the UW Comprehensive Cancer Center invites applications for several highly competitive NIH-funded predoctoral and postdoctoral fellowships. Postdoctoral positions beginning between October 1994 and March 1995 are open to Ph.D.s (or equivalent) with a strong background in biochemistry, cell biology, molecular biology, genetics, immunology or related fields, who wish to apply their skills to cancer-related problems. For further information, qualified individuals (U.S. citizens or permanent residents, only) should, by August 15, 1994, contact one of the faculty below at the listed address. Applications for several graduate fellowships for studying leading to a Ph.D. in Human Cancer Biology, beginning September 1995, are due March 15, 1995, but applicants are urged to apply earlier. For more information and application forms contact: Dr. Clifton, Program in Human Cancer Biology, K4/334 CSC, University of Wisconsin, 600 Highland Avenue, Madison, Wisconsin 53792.

Faculty and research programs include: **David A. Boothman, Ph.D.**, DNA damage-induced gene expression, experimental therapeutics; **Chawnshang Chang, Ph.D.**, molecular endocrinology, steroid receptors; **Steven S. Clark, Ph.D.**, oncogenes, molecular pathogenesis of leukemia, developmental immunology; **Kelly H. Clifton, Ph.D.**, radiation carcinogenesis, regulation of cancer progenitor cells; **Michael N. Gould, Ph.D.**, oncogenes and suppressor genes, molecular carcinogenesis; **Timothy J. Kinsella, M.D.**, modifiers of radiation damage; **R. Timothy Mulcahy, Ph.D.**, biochemical mechanisms of drug resistance, experimental therapeutics; **Catherine A. Reznikoff, Ph.D.**, molecular carcinogenesis, cancer genetics; **Joan H. Schiller, M.D.**, growth factors and cytokines; **Paul M. Sondel, M.D., Ph.D.**, tumor immunology, molecular biology of cytokine receptors, gene therapy; **Ajit K. Verma, Ph.D.**, signal transduction, molecular carcinogenesis; **George Wilding, M.D.** growth factors and oncogenes.

INTRABIOTICS PHARMACEUTICALS, INC.

IntraBiotics is a healthcare company addressing the current crisis in infectious disease caused by resistance to existing antimicrobial pharmaceuticals. The company's mission is to develop novel, peptide antimicrobials active against a broad range of bacteria and fungi, and certain viruses. Openings exist for director level and senior scientist positions in the following areas:

Microbiology: To establish group responsible for evaluation of product candidates for *in vitro* efficacy and cytotoxicity. **Requirements:** Ph.D. Microbiology and significant pharmaceutical industry experience in antimicrobial drug research and development; familiarity with bacterial, fungal and parasitic infections.

Pharmacology: Responsible for designing and executing program of *in vivo* efficacy and toxicity testing with goal of defining clinical candidates. **Requirements:** Ph.D. Biological Sciences, with pharmaceutical industry experience in anti-infectives, monitoring contract studies, and knowledge of FDA requirements.

Protein Chemistry: To establish group responsible for production and characterization of peptide antimicrobials, development of analytical methods, and design and analysis of congeners. **Requirements:** Ph.D. Protein Chemistry or Biochemistry with industrial research and/or development experience in peptide chemistry.

Formulation Development: To establish group responsible for development of topical and systemic formulations. **Requirements:** Ph.D. Biochemistry or Chemistry, and industrial experience in peptide and/or protein formulations.

Strong management experience is critical for all positions, as is the ability to work effectively as part of an interdisciplinary team. The successful candidates will be individuals with strong motivation to transfer their substantial experience to the rapidly changing environment of a start-up company. IntraBiotics is located in an excellent area on the San Francisco peninsula for a growing healthcare company. The company offers competitive salaries and benefits, and significant equity participation. Please send CVs in confidence to: Human Resources--SCLad, IntraBiotics Pharmaceuticals, Inc., 3000 Sand Hill Road, Building 4, Suite 270, Menlo Park, CA 94025-7114

CONFERENCE

8th International Conference on Carcinogenesis and Risk Assessment "Genetics and Susceptibility: Impact on Risk Assessment"

November 30 - December 3, 1994
Barton Creek Conference Resort
Austin, Texas

Cheryl Walker, Chairman, University of Texas M.D. Anderson Cancer Center
John Groopman, Co-Chairman, Johns Hopkins University

Keynote Address - Curtis Harris, National Cancer Institute

Human and Animal Models

Cheryl Walker
Louise Strong
Daniel Haber
Norman Drinkwater
Peter Demant
Larry Donehower

Factors that Modify Risk

Andres Klein-Szanto
Fred Kadlubar
Peter Shields
Larry Marnett
Lawrence Grossman
Barbara Hulka

Validation and Extrapolation Issues

Ray Tennant
Tamra Goodrow
Nancy Gorelick
John Ashby
John Robertson

Biomonitoring

Gerald Wogan
Stephen Hecht
Calum Muir
Diane Birt
John Groopman

Future Directions for Risk Assessment

Introduction - William Farland EPA
Kenneth Olden NIEHS
Paul Kleihues IARC

Roundtable: Incorporating Genetics into Future Risk Assessments Rapporteur - Gil Omenn

Applications as well as abstracts for poster sessions are being accepted. A limited number of student travel fellowships will be awarded based on submitted abstracts. For additional information and applications please contact the following:

8th International Conference on Carcinogenesis
and Risk Assessment
P.O. Box 389
Smithville, Texas 78957
Telephone: 512-237-2403
Fax: 512-237-2522

TOXICOLOGIST

STERITECH, a fast-growing San Francisco bay area biopharmaceutical company, has an immediate opening for a toxicologist with whole animal testing experience. Toxicologist's responsibilities are predominantly administrative (oversee/assist in monitoring GLP studies conducted by contract research labs) and approximately 25% research or lab projects (plan and conduct in-house *in vivo* tertiary screening).

Qualifications required include a Ph.D. or M.S. in toxicology, pharmacology or related area and postgraduate experience in general toxicology (2 years for Ph.D. level or 5 years for M.S. level). Pharmaceutical industry/contract lab experience desirable.

Steritech offers excellent salaries and benefits, including 401(k), stock options and medical/dental plans. Send CV or resume, three professional references and salary history to: Toxicologist, Steritech, Inc., 2525 Stanwell Dr. #300, Concord, CA 94520. Applicants only. EEO.

UIC The University of Illinois at Chicago

DEPARTMENT HEAD DEPARTMENT OF BIOLOGICAL SCIENCES

Applications and nominations are being sought for the position of Head of the Department of Biological Sciences at the University of Illinois at Chicago. The Head is the chief administrative officer of the Department, with overall responsibility for instruction, budget, promotion, and faculty and staff recruitment. The Head is expected to provide strong leadership for the department in our continued development of research, teaching, and public service programs.

The Department of Biological Sciences consists of 37 faculty, over 120 graduate students and approximately 800 undergraduate majors. Major subdivisions of the Department include cell and developmental biology, ecology and evolution, molecular biology, neurobiology and plant biology. Located in the heart of Chicago, UIC enrolls 16,000 undergraduate, 5,000 graduate, and 3,000 professional students. Biological Sciences is a particularly well funded department within UIC's Research I environment.

The successful candidate will have an earned doctorate and be eligible for appointment at the rank of full professor. A strong record in research and university teaching, a demonstrated commitment to equality of opportunity, and substantial leadership and organizational skills are required. Women and minority candidates are especially encouraged to apply. The desired appointment date is August 21, 1995.

Applications should be received by September 15, 1994 to receive full consideration, although the search will proceed until the position is filled. Materials, including a full curriculum vitae and names and addresses of four references, should be directed to:

Professor Brian Nichols
Biological Sciences Search Committee
c/o College of Liberal Arts and Sciences, m/c 228,
The University of Illinois at Chicago
601 South Morgan Street
Chicago, Illinois 60607-7104

UIC is an Affirmative Action/
Equal Opportunity Employer.

DEAN

UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL

The University of Medicine and Dentistry of New Jersey is seeking a Dean for the Robert Wood Johnson Medical School.

The Dean is the chief academic and administrative officer of the School, with primary responsibility for its educational, research, patient care and service mission and programs.

An MD or other related terminal degree is required, with a strong background, including administrative experience, in medical education. Other qualifications include: recognition as a leader in biomedical research; ability to provide leadership in a complex academic environment; ability to represent the School and the University to external constituencies.

A letter of application or nomination and a current curriculum vitae should be submitted to:

David Carver, M.D., Chair
Dean Search Committee
c/o Department of Pediatrics
UMDNJ- Robert Wood Johnson Medical School
306A Medical Education Building
1 Robert Wood Johnson Place
New Brunswick, NJ 08903-0019

The Committee will begin reviewing the credentials of applicants in September. The position will be available in April, 1995.

UMDNJ is an Affirmative Action/Equal Opportunity Employer m/f/d/v, and a member of the University Health System of New Jersey.



EMPLOYMENT PROFILE

Activated Cell Therapy, Inc. develops and commercializes living cell therapy services and related products for the treatment of cancer, autoimmune disease and chronic viral infection. Near-term, the company's proprietary technologies will expand markets for restoring immune system function following high-dose chemotherapy or radiation therapy. Activated Cell Therapy will also use its technologies to create new markets for living cell therapies that treat disease by modulating or modifying the immune response.

SCIENTIST

We currently have an opening for a Scientist in our Cellular Immunology Department. The candidate will work in an interdisciplinary team with the goal of developing immunotherapies for cancer and viral infections. Specific responsibilities will focus on understanding the events leading to the priming of cytotoxic T lymphocytes *in vitro*. The program has access to clinical samples, supports the use of novel techniques and encourages interactions with collaborators and consultants from diverse disciplines.

The candidate should possess a Ph.D. in immunology and the desire to apply basic research in immunology to the development of therapeutics aimed at cancer and viral infections.

We are a growing company that offers an excellent compensation and benefits package, along with the opportunity to make a significant impact in the industry. For consideration, please send your curriculum vitae with a cover letter to: Activated Cell Therapy, Inc., 291 North Bernardo Avenue, Mountain View, California, 94043. Attn: Human Resources.

We are an equal employment opportunity/
affirmative action employer.



Explore the full potential of your expertise with Ocean Spray, a healthy, growing Fortune-500 company which empowers its people to achieve excellence in everything they do.



AGRICULTURAL SCIENTIST ENTOMOLOGY

We currently seek a proven Agricultural Scientist to conduct applied research on economically impactful insect pests in cranberries. In this capacity, you will develop biological control strategies that incorporate conventional chemical and biological control measures, follow through on regulatory issues, and participate in grower educational outreach efforts. Although this position is based in Massachusetts, it will involve research and extension efforts in other principal cranberry growing regions. To qualify, candidates must have an MS plus experience, or a PhD in Entomology or Economic Zoology and an in-depth knowledge of integrated insect management in agricultural ecosystems. Strong interpersonal/communications skills and a valid driver's license are also required. Small fruits entomology, pesticide development and pesticide registration experience a plus.

We offer a competitive salary and benefits package with a challenging environment in which to grow. Please send/fax your resume, including salary history, in confidence to: Ocean Spray Cranberries, Inc., Attn: Human Resources Department, One Ocean Spray Drive, Lakeville-Middleboro, MA 02349. Fax: (508) 946-7980. An Equal Opportunity Employer, M/F/D/V.

As a concerned corporate citizen, Ocean Spray Cranberries has assumed a leadership role in pre-employment drug screening.

Quality People, Quality Products

Known worldwide as a leader and innovator in the medical products industry, Storz manufactures and markets a comprehensive line of advanced ophthalmic products. Our dynamic organization, a division of Fortune 100 American Cyanamid, currently has an excellent opportunity for a:

SENIOR RESEARCH PHARMACOLOGIST

In Pearl River, NY

Working at our Ophthalmic Pharmaceutical Research and Development facility in Pearl River, New York, the successful candidate will play a key role in the expansion of our pre-clinical drug screening and development capabilities. This will include responsibility for our in vivo glaucoma drug screening program as well as involvement in other pre-clinical studies.

Qualified candidates will have a Ph.D. plus at least 2 years experience in eye research, particularly aqueous humor dynamics, and a solid foundation in mechanisms of drug action and in vivo and in vitro drug screening methods.

Mail or fax resume and salary history in confidence to:

Employment Manager

**Storz
Dept. PS**

**3365 Tree Court Industrial Blvd.
St. Louis, MO 63122**

Fax: (314) 861-3032



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Equal Opportunity Employer



*Principal Investigator
(Protein Structure)*

MAKE A POSITIVE IMPACT!

The Life Sciences Group of DuPont Central Research and Development is seeking a highly motivated and creative individual with a strong background in protein structure and function.

The successful candidate will conduct an independent research program on the relationships among protein sequence, structure and function and will have an impact in a variety of areas, including the redesign of enzymes to alter their catalytic properties and the development of novel polyamide materials.

To qualify, you must have a Ph.D. and postdoctoral experience, a high degree of independence and the ability to collaborate with biochemists and chemists working in a variety of areas.

We are located in Wilmington, DE, an area that offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. DuPont offers an excellent compensation and benefits package. To be considered, please forward your resume to: DuPont Human Resources, PSS-0092, Wilmington, DE 19898. An Equal Opportunity Employer.



Central Science & Engineering



CHIEF, Laboratory of Immunochemistry, FDA,
Center for Biologics Evaluation and Research,
Office of Blood Research and Review, Division of
Transfusion Transmitted Diseases.

To direct regulatory activities and a research program related to the prevention of blood-borne infections such as HIV and HTLV. Studies include humoral and cellular immune response to these and related viruses.

Qualifications: Physicians - requirement for Doctor of Medicine or Osteopathy degree from accredited institution. Graduates of foreign medical schools submit copy of permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. **Scientists** - doctoral level degree in immunology/chemistry or other related field along with advanced training and/or experience in immunochemistry is desired. Experience in the development, manufacture or testing of biologics is desirable. Highly developed analytical, written and oral skills, as well as the ability to research problems and issues is desired.

GS-13/14: Salary range for Physician is \$59,099 - \$83,059. Physician may also be eligible for a comparability allowance up to \$20,000 per annum. **Salary range for Scientist** is \$49,947 - \$76,733. Salary, benefits, and level of responsibility are commensurate with education and experience.

Interested candidates contact **Ms. Murphy** on (301)402-4654 to obtain SF-171 (application for employment) and additional information regarding vacancy announcement.

U.S. Citizenship required. FDA is an EEO Employer and has a Smoke-Free Environment.

Postdoctoral Position

A position is available from September 1, 1994 to study the biochemistry and molecular biology of a new candidate tumor suppressor protein. Recent graduates with a background in biochemistry and molecular biology are encouraged to apply. Send curriculum vitae and a summary of research experience to: **A.H. Chishti, Ph.D., Department of Biomedical Research, St. Elizabeth's Medical Center, Tufts University School of Medicine, 736 Cambridge St., Boston, MA 02135; fax (617) 789-3111.** An Equal Opportunity Employer.

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CHEMISTRY OPPORTUNITIES

Beckman Instruments, Inc., a world leader in laboratory and hospital instrument systems, has the following opportunities:

MOLECULAR BIOLOGIST

We are seeking a Ph.D. level research scientist interested in the development and evaluation of DNA manipulation protocols for use with automated analytical instrumentation. Required experience includes DNA subcloning, amplification, sequencing and hybridization. Familiarity with laboratory robotics and the principles of capillary electrophoresis is highly desirable. This position primarily requires independent laboratory benchwork, however, participation in multidisciplinary product development teams is expected, requiring the ability to represent customer needs with good communication skills. Minimum 2 years experience. **Refer to job code: GS.**

QUALITY SCIENTIST

We are seeking an analytical chemist to plan, design, implement, analyze and report on manufacturing quality using statistical data analysis and experimental design to ensure compliance to Good Manufacturing Practices and ISO requirements. Experience establishing and maintaining GMP practices is essential. Knowledge of HPLC and DNA/protein chemistries is highly desirable. Requirements include BS or MS degree in Chemistry/Biology and a minimum of five years experience in a GMP environment. **Refer to job code: VO.**

For consideration, please send your resume to: **Beckman Instruments, Inc. (indicating appropriate job code), 2500 Harbor Blvd., A-40E, Fullerton, CA 92634.** Equal opportunity employer.

BECKMAN

DIRECTOR MOUNT SINAI GENE THERAPY INSTITUTE

Applications are being accepted for Director of the newly established Gene Therapy Institute at the Mount Sinai School of Medicine. A major Institutional commitment has been made to develop gene therapy for genetic disorders, infectious diseases and malignancies. The successful candidate will be an M.D. and/or Ph.D. with an active independent research program whose responsibilities will include: establishment and coordination of the vector, microscopy/assessment, and laboratory animal cores, and a GMP facility; recruitment of faculty; and the design of human gene therapy protocols for local and federal regulatory approval.

The position is available **September 1, 1994**. Salary and rank will be commensurate with experience. To apply, send curriculum vitae and three letters of reference to: **Dr. R.J. Desnick, Chairman and Professor, Department of Human Genetics, Mount Sinai School of Medicine, Box 1203, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer.

The Mount Sinai Medical Center of New York



McGill DEAN OF THE FACULTY OF SCIENCE

Nominations and applications are invited for the position of Dean of the Faculty of Science of McGill University. The appointment, effective not later than June 1, 1995, is normally for a five-year term and may be renewed.

The Dean is responsible to the Vice-Principal (Academic) for the supervision and administration of the academic programs, budgets and all activities of the Faculty of Science. Candidates should have appropriate scholarly and administrative experience; facility in both English and French is desirable.

McGill University is committed to Equity in Employment.

In accordance with Canadian Immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents.

Nominations and applications will be most useful if accompanied by a detailed curriculum vitae and the names and addresses of three referees, and should be submitted by October 15, 1994 to:

**Dr. T.H. Chan
Vice-Principal (Academic)
McGill University
845 Sherbrooke Street West
Montreal, QC H3A 2T5**

RESEARCH OPPORTUNITIES IN AN IDEAL SETTING.

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Scientist/ Program Manager

The position requires a Ph.D. in Immunology with a minimum of 3 years' demonstrated immunology research experience. The ability to set up a variety of in vitro and experimental animal models of multiple sclerosis is essential. Management experience preferred. (Job#07225-SS)

Cellular Immunologist

The position requires a Ph.D. in Immunology with 1-3 years' human immunology research experience. Applicants must possess a strong background in the development of human T cell lines and T cell clones. Some knowledge of flow cytometry and lymphokine preferred. (Job#07225-CI)

Protein Biochemist

The position requires a Ph.D. in Biochemistry and 3+ years' experience in protein purification, characterization and state-of-the-art assay development for various natural & recombinant proteins. (Job#07225-PC)

We offer attractive compensation, a generous benefits package, including stock options, and the opportunity to make significant scientific contributions. To apply, please send/fax resume to **Anergen, Inc.**, Attn: Job#, 301 Penobscot Drive, Redwood City, CA 94063 FAX: (415) 361-8958. EOE.



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UNIVERSITY OF CONNECTICUT

Two Assistant/Associate Professorships

- **Drosophila Geneticist**
- **Eukaryotic Molecular/
Cellular Biologist**

The University of Connecticut, Department of Molecular and Cell Biology invites applications for two anticipated tenure-track positions to begin on September 1, 1995. The successful candidates should have significant postdoctoral experience, and will be expected to establish strong, extramurally funded research programs. The research program of the *Drosophila* geneticist may be in any area of cell and developmental biology. The research program of the eukaryotic molecular/cell biologist will be in the general areas of eukaryotic cell signaling and gene regulation. Additionally, the successful candidates will be expected to participate in graduate training and in the teaching program of the Department. Applicants should submit a curriculum vitae and a statement summarizing research activities and future plans. Application materials and at least three letters of recommendation should be sent to: Halile M. Krider, Chairman, *Drosophila* Genetics Search Committee, Department of Molecular and Cell Biology, The University of Connecticut, 354 Mansfield Road, Storrs, CT 06269-2131. Larry Hightower, Chairman, Molecular Biologist Search Committee, Department of Molecular and Cell Biology, The University of Connecticut, 75 N. Eagleville Road, Storrs, CT 06269-3044. The review of applications will begin on September 15, 1994 and continue until the positions are filled. The University of Connecticut encourages minorities, women and people with disabilities to apply for this position.



Applications Scientists

Fisons Applied Sensor Technology (FAST), a rapidly growing division of worldwide industry leader Fisons Instruments, is seeking an Applications Scientist for its exciting new biomolecular interactions.

The successful candidate will have a Ph.D. and relevant laboratory experience in biochemistry or a related field. Applicants must have a firm command of chemical kinetics, as well as superior presentation and communication skills. Key responsibilities include conducting field and in-house technical seminars and demonstrations, training customers, and developing new applications.

Enthusiastic and multi-talented scientists who want to become an integral part of our FAST team should send their resume with salary history to:

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Technology
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The Lindsley F. Kimball Research Institute of the New York Blood Center invites applications for a Postdoctoral position to study cell-cell interactions, receptor mediated endocytosis, and identification of novel cytokines and their genes

This Institute-funded position provides the excellent research facilities and environment for professional growth conducive to a well established laboratory on New York's preferred East side.

Applicants should have a Ph.D. with a strong background in molecular biology and immunology. Experience in protein purification, cell culture and physiological systems desirable. The position commands a salary commensurate with experience.

To apply, please send Curriculum Vitae, summary of research interests, and names and telephone numbers of three to four references to: Dr. D. Banerjee, Department of Membrane Biochemistry II, New York Blood Center, 310 East 67th Street, New York, NY 10021. An Equal Opportunity Employer. M/F/D/V

**Lindsley F. Kimball
Research Institute**

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CHAIRPERSON SECTION OF PLANT BIOLOGY UNIVERSITY OF CALIFORNIA, DAVIS

The University of California at Davis announces that the search for Professor and Chairperson of the Section of Plant Biology within the Division of Biological Sciences has been extended and invites applications and nominations for this position. The chairperson will be responsible for providing academic and administrative leadership to promote excellence in teaching and research in the Section. Candidates must have active research programs with outstanding records of achievement in an area of experimental plant biology such as cell and molecular plant biology, developmental plant biology or physiology and biophysics.

The Section offers undergraduate degrees and serves as the administrative core of the Graduate Group in Plant Biology, a campus-wide unit which offers Masters' and Ph.D. degrees. Due to recent retirements, there is an opportunity for significant recruitment of new faculty. The Section will be moving to a newly constructed building in late 1996.

Candidates should submit a curriculum vitae, a statement of their research program, a statement of their teaching and administrative experience and philosophy to:

**Chair of the Search Committee
Section of Plant Biology
University of California
Davis, CA 95616**

Closing Date: Open until filled. In this extended search, applications will be considered upon receipt. The University of California is interested in candidates who reflect the highest standards of scholarship and professional activities and who do not discriminate on the basis of race, color, national origin, religion, sex, disability, age or sexual orientation.

*The University of California is an Equal Opportunity/
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FACULTY AND POSTDOCTORAL POSITIONS IN BIOCHEMISTRY/MOLECULAR BIOLOGY/ MOLECULAR GENETICS

The University of Michigan is seeking highly motivated, creative scientists to fill **faculty** and **postdoctoral** positions which can evolve into long-term employment. Preference will be given to candidates who can join us prior to year end.

Applicants should possess a Ph.D. or M.D. with expertise in Biochemistry and/or Molecular Biology. **Faculty** applicants should possess at least 5-6 years of **postdoctoral** experience, with demonstrated research excellence and strong written and oral communication skills.

Faculty Positions Are Available To Develop Research Programs To:

1. Identify and characterize genes directly regulated by nuclear retinoic acid or vitamin D receptors.
2. Delineate mechanisms through which ultraviolet light activates transcription factors such as AP-1 and NF- κ B, in human skin.

Postdoctoral Positions Are Available To Investigate:

1. Molecular characterization of enzymes (cytochrome P-450) involved in retinoid metabolism, signal transduction pathways (protein kinase cascades) mediating skin irritation, expression and interactions among members of the nuclear receptor superfamily, and regulation of protein kinase C isoenzyme expression (Dr. Gary J. Fisher)
2. Transgenic mouse models to study retinoid action in skin, mechanisms of transcriptional regulation by retinoid receptors (Dr. Jia-Hao Xiao)
3. Psoriasis genetics (linkage and gene identification), tumor suppressor gene function (identification of interacting proteins), and positional cloning of epidermal differentiation genes (selection cloning, exon trapping, and enhancer identification) (Dr. James T. Elder).

U.S. citizens and permanent residents will be considered for NIH Training grant-funded positions.

Please clearly indicate the position(s) that you are applying for. Send curriculum vitae to: John J. Voorhees, M.D., Professor and Chair, Department of Dermatology, University of Michigan, 1910 Taubman Center, Ann Arbor, MI 48109-0314.

The University of Michigan is a non-discriminatory, Affirmative Action employer and encourages applications from candidates who will enrich and contribute to the cultural diversity of our University.

PROTEIN ENGINEERING POSTDOCTORAL SCIENTIST

HELPING PEOPLE LIVE BETTER LIVES

We are seeking a Postdoctoral Scientist to work in an aggressive program involving protein engineering. The goal of this program is the generation of unique proteins that serve the specific needs of diagnostic laboratory medicine without changes to the lab's current diagnostic instrumentation. The candidate should have a Ph.D. in a field which provided 1-3 years experience with various aspects of molecular biology. This background should include purification of mRNA, cDNA cloning, PCR-assembly, site-specific and cassette mutagenesis, expression of recombinant genes and M13 based sequencing. Knowledge of protein analysis methods and purification would be helpful. This individual will help solve protein structure/activity problems by working in an exciting multidisciplinary environment with on-going world-class collaborations.

The appointment is for 1 year, renewable for a second year and available now. Competitive salary, benefits and relocation allowance provided.

For consideration please forward your CV to the Human Resources Department at Boehringer Mannheim Corporation, 9115 Hague Road, Indianapolis, IN 46250. Please reference POSTDOC. Principals only please. An Equal Opportunity Employer.

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HERPES VIROLOGIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research is seeking an Investigator and a Scientist to join the product support function of our Molecular Virology and Host Defense Department. The department's 44 members work on projects which encompass basic and applied research on many aspects of molecular virology and the immunology of infectious diseases including the discovery of novel antivirals, viral pathogenesis, immunomodulation, hematopoietic cytokines and stromal cell biology.

Investigator

The selected candidate will plan, supervise and implement product support activities for anti-herpes compounds in addition to contributing to our efforts to discover novel anti-virals; identify key experimental needs and conduct appropriate studies in addition to coordinating the work of numerous outside investigators; apply knowledge of biochemistry, molecular tools and in vitro and in vivo models of virus infection to expand the profile of antiviral compounds, and present results of work at scientific meetings.

The qualified candidate will have a Ph.D. (or equivalent) in Virology; 3-5 years' postdoctoral experience in studies of herpes viruses, preferably in clinical support virology, drug profiling, or drug resistance mapping; an excellent record of scientific achievement as evident from publications, patents, abstracts and presentations; excellent communication skills and the ability to work effectively with individuals of varied backgrounds and disciplines; with industry and supervisory experience preferred. Refer to Job #H0226.

Scientist

Working with an Investigator and other staff, the selected candidate will develop and carry out experimental strategies for expanding the profile of anti-herpes compounds; apply your knowledge of in vitro and in vivo virology techniques, in addition to assisting with data analysis and the preparation of results for presentation.

The qualified candidate will have a BS or MS in Microbiology; 3-6 years' experience in Virology, with herpes virus experience highly preferred; excellent laboratory skills to include virus culture and animal models, molecular, and biochemical techniques, and data analysis; good communication skills; with industry experience preferred. Refer to Job #H0227.

Based in our modern state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. Interested applicants should send resume with salary history to: SmithKline Beecham Pharmaceuticals, PO Box 401, Job #____, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

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POSITIONS OPEN

RESEARCH ASSOCIATE FOOT-AND-MOUTH DISEASE VIRUS RESEARCH

The U.S. Department of Agriculture, Plum Island Animal Disease Center, is seeking a **POSTDOCTORAL RESEARCH ASSOCIATE**. The Associate will be part of a multidisciplinary research group studying foot-and-mouth disease virus (FMDV) and will concentrate on the study of FMDV receptors. Projects include characterization of bovine and swine integrin molecule(s) involved in virus reception by cloning and expressing these integrin genes in receptor negative cells, and studies on the engineering of eukaryotic cells to express novel viral receptor proteins. The research requires experience in immunology and molecular biology.

Appointments are for two to three years with a salary range of \$36,313 to \$43,522. Successful candidates must have obtained a relevant Ph.D. within the last three years. Interested individuals should send curriculum vitae, including the names and addresses of three references to: Dr. Barry Baxt, USDA-ARS-NAA, Plum Island Animal Disease Center, P.O. Box 848, Greenport, NY 11944. Telephone: (516) 323-2500; FAX: (516) 323-2507; Email: bbaxt@asrr.arsusda.gov.

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

NEUROSCIENTIST

Neurex Corporation is a rapidly growing biopharmaceutical company in the San Francisco Bay Area. We have an immediate opening for a Scientist with a broad background in molecular neurobiology. The successful candidate will have a Ph.D. in Molecular Physiology or Pharmacology and a minimum of 2 years of relevant postdoctoral electrophysiological characterization of cloned and expressed ion channels. Send résumé to: BH-SC-2, Neurex Corporation, 3760 Haven Ave., Menlo Park, CA 94025. Equal Opportunity Employer.

EG&G ENERGY MEASUREMENTS PLANT ECOLOGIST JOB NUMBER: SBO-94-02

Work location is in Southern San Joaquin Valley, California. Related B.S. degree + 2 years' experience or equivalent. Contact: Recruiting, (805) 681-2477. U.S. Citizenship required. EG&G/EM is an Equal Opportunity Employer.

IMMUNOLOGIST

University of California, San Francisco (UCSF) seeks an immunologist with proven experience in the production of monoclonal and polyclonal antibodies. Proficiency in hybridoma technology and cell culture is essential. A Bachelor's degree with 2 to 3 years' experience or a Master's degree with 1 to 2 years' experience is required. Starting salary up to \$35,500. Send curriculum vitae and a list of three references to: Stanley Prusiner, University of California, San Francisco, CA 94143-0518. UCSF is an Affirmative Action/Equal Opportunity Employer.

SYMPOSIUM

CHEMICAL MIXTURES AND QUANTITATIVE RISK ASSESSMENT

The Second Annual Symposium of the Health Effects Research Laboratory will be held November 7-10, 1994 at the North Raleigh Hilton in the vicinity of Research Triangle Park, NC. The focus will be recent progress in chemical mixtures research, emphasizing advances in mechanistic understanding. Topics for discussion include: current risk assessment guidelines and practices; experimental approaches, methods, and models to evaluate mixtures; and pharmacokinetic and pharmacodynamic interactive mechanisms. The purpose is to identify critical data needs and important future research directions; and to promote active dialogue on the role of mechanistic research on chemical mixtures in future risk assessment strategies. For more information, please contact:

RSD Conference Coordinator
MD-70, Health Effects Research Laboratory
U.S. EPA, Research Triangle Park, NC 27711
Telephone: (919) 541-5193; FAX: (919) 541-4002
Internet: MEETINGSMAIL@HERL45.HERL.EPA.GOV

POSITIONS OPEN

IMMUNOBIOLOGIST

The Department of Pathology at the Cornell University Medical College is searching for a senior-level immunobiologist with a record of scholarly accomplishments and external funding to establish a vigorous independent research program in B lymphocyte ontogeny. The candidate will be expected to develop strong collaborative interactions with the clinical and experimental hematopathologists in the Department. Other responsibilities will include teaching medical students, graduate students, and pathology house staff. Rank and salary will be commensurate with the level of scholarly accomplishments. Interested individuals should submit curriculum vitae and the names of three references to: Daniel M. Knowles, M.D., Professor and Chairman, Department of Pathology, The New York Hospital-Cornell Medical Center, 525 East 68th Street, New York, NY 10021.

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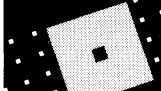
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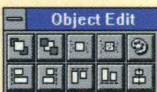
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The recently-released Version 3.0 includes enhancements that further define ORIGIN's uniqueness. The new curve fitting tool bar, for example, offers users a quick and easy way to set fitting constraints and generate confidence

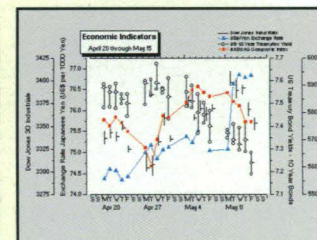
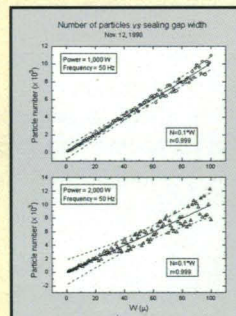
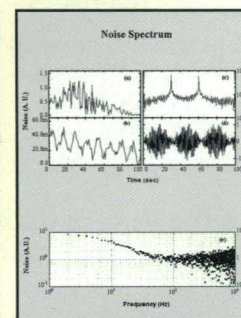
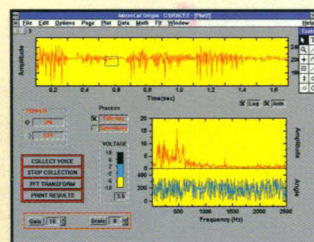
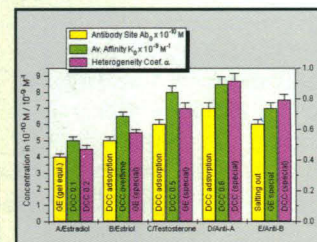
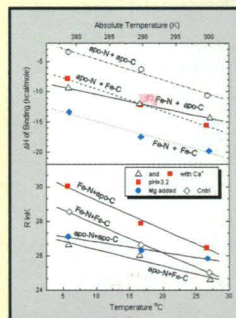
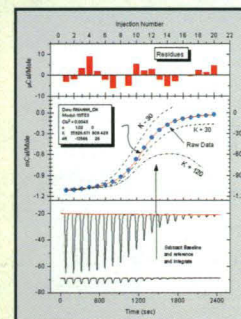
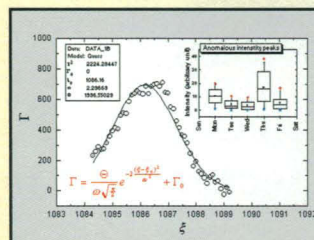
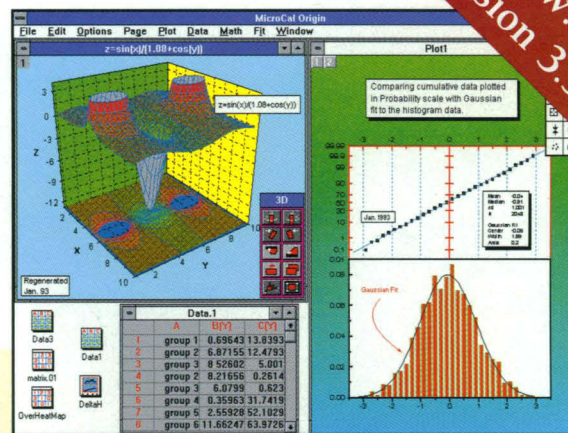
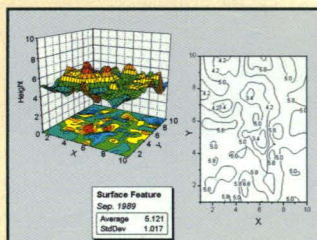
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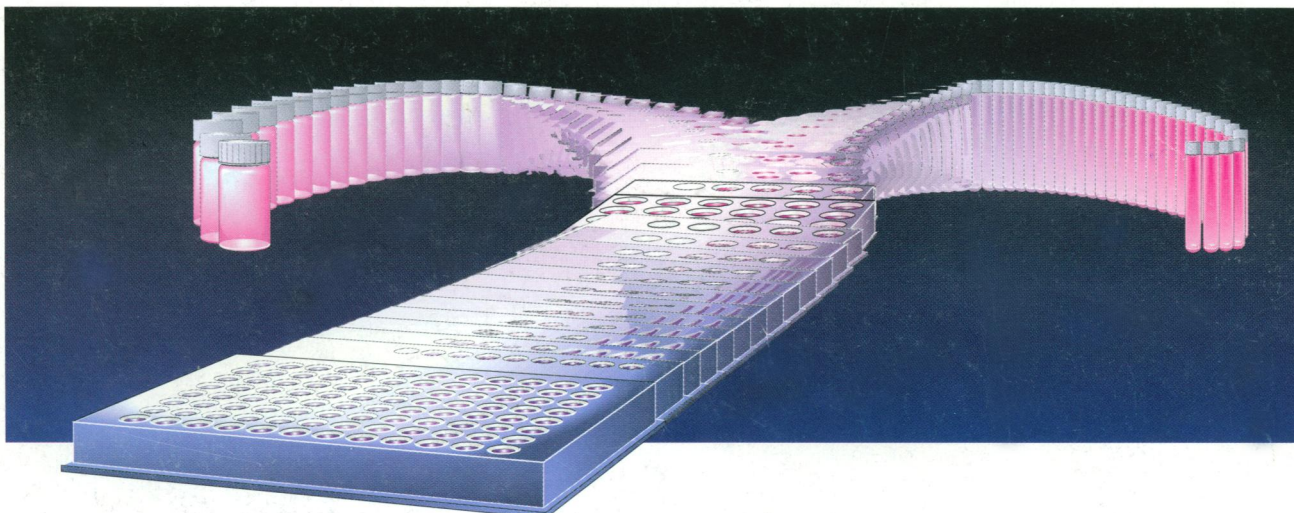
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