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## Monoclonal Antibodies

A line of 50 monoclonal antibodies (mAbs) against a wide range of cell adhesion molecules includes CD31 (PECAM), CD 54 (ICAM), CD56 (NCAM), CDw-49b, and ELAM-1. A new clone of anti-human Fas antibody, clone UB2, is a purified immunoglobulin G mouse mAb that reacts specifically to human Fas and does not recognize mouse Fas antigen. **Kamiya Biomedical. Circle 139.**

A range of mAbs against various CD44 isoforms includes anti-human CD44 H, anti-human CD44 v3, anti-human CD44 v4/5, anti-human CD44 v6, and anti-human CD44 v8/9. These mAbs can be used in histology, immunoprecipitation, flow cytometry, and protein immunoblotting. **R & D Systems Europe. Circle 140.**

New mAbs are available to several nitric oxide synthases (NOS), which are cell type-specific enzymes that catalyze the synthesis of nitric oxide. The line includes mAbs to brain-specific NOS, endothelial cell-specific NOS, and inducible NOS. **Transduction Laboratories. Circle 141.**

## Laboratory Automation System

The BIOMEK 2000 Laboratory Automation Workstation automates assays and sample preparation according to the researcher's methods, performing tasks such as pipetting, diluting, plate washing, high density replicating, and photometric assay quantitation. It has



applications in immunology, molecular biology, biochemistry, drug discovery, clinical research, and molecular diagnostics. The instrument features a large work surface with up to 12 selectable

positions for versatile configuration of the researcher's choice of labware. Windows-based software allows the operator to easily set up the unit for complex procedures. **Beckman Instruments. Circle 142.**

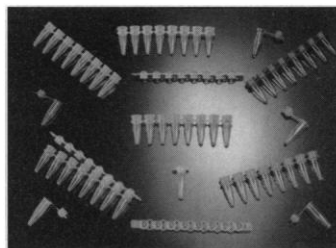
## Data Analysis for Windows

SCIENTIST for Microsoft Windows is software dedicated to experimental data fitting and simulation. It features a range of user-transparent numeric and symbolic capabilities and has built-in data-fitting capabilities that clearly differentiate it from other programs that do "curve fitting." In the model-building process, any combination of user-defined algebraic and differential equations, Laplace transformations, implicit equations, multivariate equations, or linear and nonlinear equations can be used for simulation and data fitting. SCIENTIST also determines best-fitting splines, polynomials, and interpolating functions. Numerous math functions, complex numbers, and "if-then-else" constructs are supported. **MicroMath Scientific Software. Circle 143.**

## DNA Clean-Up Kit

The CleanSweep DNA clean-up kit removes linkers and primers from enzymatic reactions. Vector DNA or large (>300 bp) DNA fragments can be rapidly and efficiently separated from smaller linkers or primers. This product selectively precipitates larger DNA fragments while leaving the linkers or primers suspended in the supernatant, without the use of harsh organic solvents. The entire procedure can be completed in less than 15 min. **AMRESCO. Circle 144.**

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.



## PCR Reaction Tubes and Strips

These 0.2-ml thin-wall reaction tubes and eight-tube strips for polymerase chain reaction applications are designed for more even heat transfer and significantly faster cycle times. The tubes and strips are molded from chemically inert polypropylene in natural, blue, green, amber, red, and yellow. **Evergreen Scientific. Circle 145.**

## Macroporous Cellulose Carrier

Cellsnow, composed of macroporous cellulose, is a carrier for mammalian cell culture. Cellsnow provides cell adhesive and growth tendencies with fibroblast cells, epithelial cells, endothelial cells, and other anchorage-dependent cells. Cellsnow can also be used for anchorage-independent cells such as hybridomas. The macroporous structure of Cellsnow allows for high cell viability and cell-specific productivity, and a high elasticity reduces cell damage from collisions and mechanical shearing force. Cellsnow may be sterilized by autoclaving for use in large-scale cell culture. Direct air sparging and various bioreactor systems can also be employed. **Wako BioProducts. Circle 146.**

## Nonradioactive In Vitro Translation Kit

The Nonradioactive In Vitro Translation Kit, when coupled with the Biotin/Streptavidin

Chemiluminescent Western Blotting Kit, provides sensitivity, speed, and safety during protein synthesis. The mRNA is translated into a biotinylated protein using the supplied reticulocyte lysate and charged lysine-tRNA. Following the translation reaction, polyacrylamide gel electrophoresis separation, and protein immunoblotting, the protein can be detected in less than 2 hours with sensitivity comparable to radiolabeled proteins. The entire procedure of translation, separation, and detection takes less than 6 hours. The biotin-labeled proteins are not degraded by autoradiolysis, eliminating the need for repeat labeling experiments and the additional exposure to and expense of radioactivity. **Boehringer Mannheim. Circle 147.**

## Literature

*Sigma Immunochemicals 1994 Catalog* lists more than 1600 antibodies, growth factors, enzyme substrate and buffer tablets, and related products. New products include: a line of mouse CD marker antibodies labeled with various markers; antibodies to  $\beta$ -actin, dystrophin, Golgi proteins, pan cadherin, plectin, and syntaxin; 20 new growth factors and antibodies to growth factors; and buffer pouches. **Sigma Immunochemicals. Circle 148.**

*1994 Product Handbook* is a 320-page catalog on a complete line of data acquisition and imaging products, including both software and hardware. **Data Translation. Circle 149.**

*ABI Advanced Biotechnologies 1994* is a catalog from a company that offers infectious disease antigens, purified viruses, viral proteins and antibodies, viral DNA controls, elutriated lymphocytes and monocytes, cultured mononuclear cells, bioprocess validation services, large-scale bacterial fermentation, and more. **ABI Advanced Biotechnologies. Circle 150.**

# Science

## PERSONNEL PLACEMENT

### LINE CLASSIFIED ADVERTISEMENTS

➤ **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.

➤ **How to Submit a Classified Ad:** Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.

➤ **Mail or FAX materials to:**  
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Telephone: 202-326-6555  
FAX: 202-682-0816

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➤ **Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +44 223 302 067 (telephone) or +44 223 302 068 (FAX).

➤ **Credit Cards:** *Science* accepts MasterCard and VISA. Discount does not apply to credit cards.

➤ **Cancellations:** Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

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For rates and info. about fractional display ads (all ads 1/2 page and larger), contact:

Recruitment Advertising  
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**CONDITIONS:** Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it.

## POSITIONS OPEN

### FACULTY POSITION IMMUNOLOGIST/VIROLOGIST

Johns Hopkins University School of Public Health has an **ASSISTANT or ASSOCIATE PROFESSOR** opening for an experienced Ph.D. or M.D. immunologist/virologist. We especially invite applications from individuals with interests and experience in immunological responses to and correlates of protection conferred by vaccines. Candidates must have demonstrated excellence in independent research. The successful candidate would join a faculty active in research on the development of vaccines to protect against respiratory and diarrheal viruses and other mucosal pathogens. This position involves the conduct of independent and collaborative research, and teaching and training of graduate students in the Departments of International Health (Division of Vaccine Sciences) and Immunology and Infectious Diseases. To apply, send a letter of application with a description of current and future research plans, curriculum vitae and names and addresses of three referees to: **Dr. Mary Lou Clements, Johns Hopkins University Center for Immunization Research, Hampton House 225, 624 North Broadway, Baltimore, MD 21205; FAX: 410-550-6898. JHU is an Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR MUTAGENESIS ENVIRONMENTAL HEALTH SCIENCES

The Department of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill seeks to recruit a tenure-track Assistant/Associate Professor with expertise in molecular mutagenesis and human biomonitoring. This individual is expected to develop a research program that examines mutational spectra and causal mechanisms associated with exposure to chemicals or agents of environmental concern using cell culture, animal and human cells. Integration with other research programs in the department and university is desirable. Excellent research laboratory facilities and equipment are available. The successful applicant will be expected to establish extramurally funded research and to develop graduate-level teaching to complement the existing program in environmental health and toxicology.

Send letter of application, curriculum vitae, description of research interests and goals, and the names and addresses of three references to: **James A. Swenberg, Chair/Molecular Mutagenesis Search Committee, Department of Environmental Sciences and Engineering, CB #7400, UNC-CH, Chapel Hill, NC 27599-7400. Applications must be received by 23 May 1994.**

*The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Minority and female candidates are encouraged to apply.*

### ASSOCIATE PROFESSOR/PROFESSOR

The Department of Experimental Pathology invites applications for tenure-track **Associate Professor/Professor positions**. Candidates who have developed independent funding in cellular or molecular investigation of vascular disorders, tumor biology, or immunology are particularly encouraged to apply. Applicants should send curriculum vitae, description of research interest, and names of three references to: **Dr. Michael B. Stemerman, Chairman Department of Experimental Pathology, New York Medical College, Valhalla, NY 10595. An Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT PROFESSOR

The Department of Life Sciences at the University of New England seeks candidates for a one-year full-time position to teach undergraduate courses in human neuroscience or human gross anatomy, normal and abnormal physiology, general physiology, and general biology, beginning fall 1994. If funded, the position may be converted to tenure-track effective fall 1995. Applicants should have a Ph.D. and documented interest/experience in interdisciplinary education, active and collaborative approaches to teaching/learning, and use of teaching techniques to promote critical thinking. Review of applications will begin on April 24, 1994. A cover letter describing interest in the position, curriculum vitae and three letters of references should be sent to: **Dr. John Lemons, Chair, Department of Life Sciences, University of New England, Biddeford, ME 04005. The University of New England is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### PHYSIOLOGY ASSISTANT PROFESSOR

The Department of Physiology invites applications from individuals with at least 2 years of postdoctoral experience for a tenure-track position. Cardiovascular research is emphasized but all qualified applicants will be considered. Successful candidate will establish an independent research program, seek extramural funding and enjoy teaching in medical physiology. Send curriculum vitae, brief description of teaching experience, current research activities, career goals and names of three references, prior to May 1, 1994, to: **D. Fred Peterson, Ph.D., Chairperson, Department of Physiology, Kirksville College of Osteopathic Medicine, Kirksville, MO 63501. KCOM is an Equal Opportunity/Affirmative Action Employer.**

### BACTERIOLOGIST

The Department of Microbiology and Immunology at the University of Texas Medical Branch (UTMB) at Galveston, Texas, is seeking applicants for a tenured or tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Individuals with a Ph.D., D.Sc., M.D. or M.D./Ph.D. are invited to apply. The individual would be expected to develop an independent research program focusing on bacterial pathogenesis or on the development of effective immunological intervention against bacterial infections. The applicant would be expected to actively interact with other bacteriologists at UTMB. The Department of Microbiology and Immunology has excellent and expanding programs in immunology, virology and bacteriology, as well as a stable and nourishing environment. These programs, plus an exceptional start-up package, make this a unique opportunity for career development. UTMB is a large medical center located in Galveston, Texas, a historical community in close proximity to Houston. *We particularly encourage women and underrepresented minorities to apply.* Submit curriculum vitae, a statement of research interests, and the names, addresses, and telephone numbers of three references by June 15, 1994, to: **Bacteriology Search Committee, c/o Bellur S. Prabhakar, Ph.D., Department of Microbiology and Immunology, Route J19, UTMB, Galveston, TX 77555-1019. UTMB is an Equal Opportunity M/F/H/V Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.**

**University of California, San Francisco. ASSISTANT or ASSOCIATE PROFESSOR OF NEUROLOGY.** The Department of Neurology and the Program in Neuroscience, UCSF, seek exceptional candidates at the level of Assistant or Associate Professor of Neurology in Residence, based at San Francisco General Hospital. Applicants are expected to have potential for a strong, independently funded research program and credentials in teaching and clinical neurology. Possible research areas of demonstrated scholarship include cellular and molecular neuroscience, molecular genetics, and biochemistry. Excellent laboratory facilities available. Send curriculum vitae, research interests, and three names for reference to: **Ivan Diamond, M.D., Ph.D., Department of Neurology, 4M62, 1001 Potrero Avenue, San Francisco, CA 94110. The University of California is an Equal Opportunity/Affirmative Action Employer. Women, minority groups and handicapped individuals are encouraged to apply.**

**University of California, San Francisco. ASSISTANT PROFESSOR to PROFESSOR OF NEUROLOGY level.** The Department of Neurology, the J. David Gladstone Institutes, and the Program in Neuroscience, UCSF, seek exceptional candidates at the level of Assistant Professor to Professor of Neurology in Residence, based at San Francisco General Hospital. Applicants are expected to have potential for a strong, independently funded research program and credentials in teaching. An interest in Alzheimer's Disease and neurotrophic factors is preferred, with demonstrated scholarship in cellular and molecular neuroscience, molecular genetics, or biochemistry. Full salary and excellent laboratory facilities available. Send curriculum vitae, research interests, and three names for reference to: **Ivan Diamond, M.D., Ph.D., Department of Neurology, University of California, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110. The University of California is an Equal Opportunity/Affirmative Action Employer. Women, minority groups and handicapped individuals are encouraged to apply.**

**THE GLENN  
FOUNDATION FOR  
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**Announces  
The winner of the  
1993 Glenn**

**Foundation Award  
EARL R. STADTMAN, PhD  
National Heart, Lung  
and Blood Institute,  
NIH, Bethesda, MD**

Dr. Earl Stadtmán, one of the pioneers in providing a framework for identification and quantification of cellular damage that can lead to premature aging, was the recipient of the 1993 Glenn Foundation Award for significant research in the biology of aging. Dr. Stadtmán was honored for his research in defining specific molecular mechanisms that implicate discrete biochemical changes in the loss of physiological function.

The \$20,000 award was presented to Dr. Stadtmán at The Gerontological Society of America's 46th Annual Scientific Meeting in November of 1993.

The award is funded by the Glenn Foundation for Medical Research in Santa Barbara, California and administered by The Gerontological Society of America. The Society is the national multidisciplinary organization for researchers, educators and practitioners in aging.

The deadline for the 1994 Glenn Award selection process is May 8. For further information, contact: Awards Coordinator, The Gerontological Society of America, 1275 K Street, NW, Suite 350, Washington, DC 20005-4006: (202) 842-1275.



# RISK MANAGEMENT: ENVIRONMENTAL RESEARCH

The Center for Risk Management of the Health Sciences Research Division at the Oak Ridge National Laboratory (ORNL) has immediate PhD-level openings in the following areas:

## RISK ASSESSMENT

Requires a PhD in geology, health physics, environmental sciences, or chemistry, together with a working knowledge of risk assessment methodologies and experience dealing with federal agencies.

## BIOTECHNOLOGY

Requires experience in either procaryotic molecular cloning methods (Bioengineering) or in developing noninvasive diagnostic techniques (medical biotechnology).

## SOIL SCIENCE

Must have demonstrated ability to direct research on the effectiveness of soil remediation technologies that remove volatile organics from soils.

ORNL is managed by Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy. For immediate consideration, send your resume by May 2, 1994 to: Dr. Curtis Travis, Oak Ridge National Laboratory, Dept. SCI-0408, P.O. Box 2008, Oak Ridge, TN 37831-6492.

*ORNL is an equal opportunity employer  
committed to building and maintaining a  
diverse workforce.*



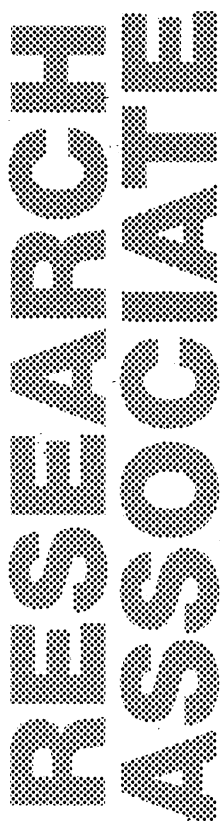
**Postdoctoral Position  
Markey Center for Molecular Genetics  
Department of Microbiology and Molecular Genetics  
University of Vermont School of Medicine**

Postdoctoral positions are available to study the biochemistry and molecular biology of genome rearrangement and stability in human cells. Two genes, hMSH2 [Fishel, et al., Cell 75:1027-1038 (1993)] and hMLH1 [Bronner, et al., Nature 368:258-261 (1994)], are the basis for microsatellite instability, Hereditary NonPolyposis Colon Cancer (HNPCC) and perhaps 15-30% of most sporadic cancers. Proteins involved in genome rearrangement include those responsible for Nonhomologous Recombination [Derbyshire, et al., Mol. Cell. Biol. 14:156-169 (1994)] and Homologous Pairing [Moore and Fishel, J. Biol. Chem. 265:11106-11117 (1990); Moore, et al., Proc. Nat. Acad. Sci. 88:9067-9071 (1991)]. The Markey Center of Molecular Genetics occupies a new building that is fully equipped for modern molecular biology and biochemistry. Burlington, Vermont is a cosmopolitan city in a superb location next to Lake Champlain and the Green Mountains, 3 hours north of Boston and 1 1/2 hours south of Montreal, Canada.

Applicants should forward a curriculum vitae, and description of research interests/experience and three letters of reference to:

Dr. Richard Fishel  
Department of Microbiology and Molecular Genetics  
Stafford Building  
University of Vermont School of Medicine  
Burlington, VT 05405

The University of Vermont is an equal opportunity/affirmative action employer



## Viral Vaccine Research

Lederle-Praxis Biologicals, a division of American Cyanamid Company, is recognized internationally as a leader in the research, development and manufacture of vaccines for prevention of viral and bacterial disease. Currently, we are seeking an energetic and talented Research Associate to join the Biochemistry Group in our Viral Vaccine Research Department.

Our current projects require the expression and characterization of native and recombinant viral antigens. Applied technologies range from protein purification and immunoassay to cell culture in small scale bioreactors. There is extensive interaction with our Molecular Biology, Immunobiology, Virology and Process Development groups.

Qualified applicants will have a Master's degree in biological sciences, at least 4 years of experience with tissue culture, virus assays and protein purification, and strong written and verbal communication skills.

We offer professional challenge, a competitive salary, a liberal benefits package, and a suburban location, just 30 miles northwest of NYC which provides a broad range of recreational and cultural activities. For consideration, send your resume to: Lederle-Praxis Biologicals, Dept. KM8875/34A/123, North Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.



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Protecting families through immunization®

## POSITIONS OPEN

### LIFE SCIENCE EDUCATION POSITION

Tenure-track ASSISTANT/ASSOCIATE PROFESSOR position starting January 1995 in science education and biology, botany or zoology. Requires Ph.D. in biological science, a teaching credential, and teaching experience at the middle or secondary school level. Teach biology, science education methods, supervise student teachers. Send résumé including three letters of recommendation and academic transcripts to: **Life Science Education Search Committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521; Telephone: (707) 826-3245.** Completed applications must be postmarked by August 15, 1994. *Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.*

### AQUATIC ECOLOGY KELLOGG BIOLOGICAL STATION MICHIGAN STATE UNIVERSITY

Kellogg Biological Station (KBS) of Michigan State University invites applications for a tenure-system ASSISTANT PROFESSOR position in aquatic ecology. Applicants should have interests in interdisciplinary research that interfaces ecological and chemical interactions in aquatic systems.

Annual year (12-month) appointment will include residency at KBS and a joint appointment in the department of Zoology or Geological Sciences on the main campus. Position available September 1, 1994.

Areas of particular interest include aquatic biogeochemistry, watershed processes and species/trophic interactions. Emphasis is on research and graduate training. Teaching involves summer programs at KBS and commitment to participation in campus-based courses. Applications should include curriculum vitae, publications, statement of academic interests, and three letters of recommendation. Applications deadline May 20, 1994, or until a suitable candidate is obtained. Submit applications to:

Dr. Michael J. Klug, W. K. Kellogg Biological Station, 3700 East Gull Lake Drive, Hickory Corners, MI 49060; Telephone: (616) 671-2341, FAX: (616) 671-2351, E-mail: klug@kbs.msu.edu.

*Michigan State University's Kellogg Biological Station is an Equal Opportunity Employer and encourages applications from women and minorities.*

### DIRECTOR DRUG ABUSE TREATMENT PROGRAM

Applications are invited for a tenure-track position in the Department of Psychiatry and Human Behavior at the University of Mississippi Medical Center. The position will be at the ASSISTANT or ASSOCIATE PROFESSOR level, depending upon qualifications. Candidates should have an M.D. and/or a Ph.D. in Psychology, Pharmacology or Neuroscience with expertise in drug abuse treatment and treatment research. The successful candidate will be expected to develop an outpatient drug abuse treatment program with an externally funded research component and to establish collaborative relations with other scientists within the department. Salary will be commensurate with rank. Start-up funds and space are available. Applicants should send curriculum vitae, a statement of current and future research goals and names of three references to:

William L. Woolverton, Ph.D.

Chair of Search Committee

Department of Psychiatry and Human Behavior  
The University of Mississippi Medical Center  
2500 North State Street  
Jackson, MS 39216

Applications will be accepted until June 30, 1994. *Equal Opportunity Employer, M/F/D/V.*

The Biochemistry and Biophysics Department at the University of Pennsylvania is seeking a RESEARCH ASSISTANT PROFESSOR who is an expert in the molecular genetic basis of pancreatic B cell signalling pathways of fuel sensing and insulin secretion. Interested candidates should send curriculum vitae and have 3 letters of reference sent to: Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104-6059. Deadline: May 9, 1994. *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.*

## POSITIONS OPEN

### JUNIOR FACULTY

The University of Illinois at Chicago Section of Respiratory and Critical Care Medicine is seeking an M.D./Ph.D. with proven track record in microvascular biology research required with experience using hamster cheek pouch as a model preferred. Will be responsible for designing and performing experiments as well as writing manuscripts. Will be expected to seek independent extramural funding early on. Please send curriculum vitae and names of 3 references to: Israel Rubinstein, M.D., Department of Medicine M/C 787, Section of RCCM, 840 South Wood Street, Chicago, IL 60612. *Affirmative Action/Equal Opportunity Employer.*

### YALE UNIVERSITY SCHOOL OF MEDICINE JUNIOR FACULTY POSITION

Applicants are solicited for a tenure-track position at the rank of ASSISTANT PROFESSOR (term appointment) in the Department of Cellular and Molecular Physiology, Yale University School of Medicine, with a joint appointment in the Section of Nephrology in the Department of Medicine. Candidate must hold an M.D. degree, have 4 years of postdoctoral experience studying the molecular biology of epithelial transporters and/or channels, and be board eligible in clinical nephrology. The successful candidate is expected to develop an independent research program, as well as to assume some clinical responsibilities in Nephrology. Opportunities are available for collaborative research, as well as for graduate and medical student teaching.

*Members of minority groups are encouraged to apply.* Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by May 10, 1994, to: Dr. Walter F. Boron, Chair, Department of Cellular and Molecular Physiology, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510. *Yale University is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION GENE TRANSFER—IMMUNOTHERAPY University of Miami School of Medicine

The Department of Microbiology and Immunology and the Sylvester Comprehensive Cancer Center invite applications for two tenure-track faculty positions, one ASSISTANT PROFESSOR and/or ASSOCIATE PROFESSOR level. Candidates are expected to develop a strong program in basic research in gene transfers, virology, apoptosis, gene regulation, gene therapy or related areas applicable to our cancer programs. We offer integration into a stimulating, young and research-oriented faculty in immunology and microbiology and participation in an existing funded gene therapy program conducted together with the Division of Oncology under the umbrella of the Sylvester Comprehensive Cancer Center. All applicants who wish to be considered for the position at the level of Associate Professor should have an established, funded research program. Interested applicants should send current curriculum vitae, a statement describing research achievements and future research goals, and names and addresses of three references to: Eckhard R. Podack, M.D., Ph.D., Chairman, Search Committee, Department of Microbiology and Immunology, University of Miami School of Medicine, P.O. Box 016960 (R-138), Miami, FL 33101. *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

### PHYSICIAN/MEDICAL DIRECTOR

The Department of Psychiatry at the University of Mississippi Medical Center, under the direction of its new Chairman, is seeking a physician/psychiatrist to be the medical director of its Sleep Disorders Center. The ASDA-accredited Center includes a fully staffed 4-bed sleep evaluation unit, an outpatient clinic and a growing outreach and research program. Candidates should be certified by the American Board of Sleep Medicine and possess administrative and research skills. Rank of faculty appointment and compensation will be commensurate with experience and background. Please submit curriculum vitae and the names of three academicians who have agreed to provide letters of reference to: Angelos Halaris, M.D., Professor & Chairman, University Medical Center/Department of Psychiatry, 2500 North State Street, Jackson, MS 39216-4505. *Equal Opportunity Employer, M/F/D/V.*

## POSITIONS OPEN

EDITOR, *Journal of Clinical Pharmacology*, Official Publication of the American College of Clinical Pharmacology. Eminence in the field of pharmacology, either basic, clinical, or both, is required. Experience as an editor, or as a member of editorial boards of scientific journals preferred, but not necessary. Interested and qualified candidates should submit current curriculum vitae by no later than July 31, 1994, to: American College of Clinical Pharmacology, Executive Office, 300 Oriskany Boulevard, Yorkville, NY 13495-1332.

### CHAIR, DEPARTMENT OF BIOCHEMISTRY:

Applications and nominations are invited for the position of Chair of the Department of Biochemistry in the James H. Quillen College of Medicine at East Tennessee State University. Candidates must have a Ph.D. or M.D. degree, or both, an active research program and a distinguished record of research accomplishments including peer-reviewed funding, a commitment to teaching medical students and graduate students, and a desire to build and lead a department of prominence. The Department provides a strong commitment to graduate and medical education in an expanding research environment with anticipated construction of an additional basic science building. Applicants should provide curriculum vitae and names, addresses, and telephone numbers of four references. Screening of applications will begin April 1, 1994, and continue until the position is filled. Applications and nominations should be sent to: Dr. Robert Wondergem, Search Committee Chair, Department of Physiology, P.O. Box 70576, East Tennessee State University, Johnson City, TN 37614-0576. *Applications from women and minorities are encouraged. East Tennessee State University is an Equal Opportunity Employer.*

### SEEKING CHIEF OF SURGERY, DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, PALO ALTO—The Department of Surgery at Stanford University School of Medicine is conducting a search for an experienced academic leader to serve as Chief of Surgery at the Palo Alto Veterans Affairs Medical Center. Candidates should be experienced academic surgeons with an excellent record of clinical and laboratory research, and administrative accomplishments. The appointment will be at the level of Associate Professor or Professor based on the candidate's qualifications, and carry the title Vice Chair of Surgery. Candidates for this position should be diplomates of the American Board of Surgery.

The Palo Alto Veterans Affairs Medical Center is a Dean's hospital and closely affiliated with Stanford University. All surgeons are Stanford faculty members; all surgical specialties are represented at the Palo Alto VA and are fully integrated with their respective programs at Stanford. Construction of a new 228-bed clinical facility is underway. In addition, several satellite outpatient facilities including a new center in San Jose, approximately 30 miles from Palo Alto, are under development. The San Jose clinic is expected to open in January 1995. Such facilities provide a stable referral base consistent with changes in health care delivery.

*Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.* Interested applicants should write to: Dr. John E. Niederhuber, Chair, Department of Surgery, MSOB Room X-300, Stanford University School of Medicine, Stanford, CA 94305-5408.

### ASSOCIATE CHIEF OF STAFF, RESEARCH—

The Denver VAMC is seeking candidates for this important research leadership position. The medical center has a large, active, multidisciplinary research effort involving basic, clinical and HSRR research. Applicants should be U.S. citizens with administrative and research credentials and should qualify for a senior level faculty appointment at the University of Colorado Health Sciences Center. Applications will be accepted until 1 September 1994 or until the position is filled. Send curriculum vitae plus three references to: Robert J. Anderson, M.D., Chair of Search Committee, Medical Service (111), Denver VA Medical Center, 1055 Clermont Street, Denver, CO 80220. *The VAMC is an Equal Employment Opportunity/Affirmative Action Employer and minority and protected groups are encouraged to apply.*

U. S. DEPARTMENT OF ENERGY

# POSTGRADUATE RESEARCH PROGRAMS

Human Genome	Global Change
Toxicology	Engineering
Fossil Energy	Physical Sciences
Hazardous Wastes	Environmental Sciences
Fusion Energy	Life Sciences
Computer Sciences	Risk Analysis

- Research at national laboratories
- Stipends \$22,200 - \$55,000 depending on degree, program, research area
- Recent graduate degree
- U.S. citizenship or PRA status may be required

Information and applications:

**Postgraduate Research Programs**  
Science/Engineering Education Division  
Oak Ridge Institute for Science and Education  
P.O. Box 117  
Oak Ridge, TN 37831-0117  
(615) 576-7385

## PIONEER HI-BRED INTERNATIONAL, INC.

Pioneer is seeking applicants for our ongoing program of crop improvement.

**PROJECT LEADER, Disease Resistance Gene Expression (JOB #1357 - A JORGENSEN)** - the primary responsibility of the person occupying this position is to identify, isolate, employ, and assay gene expression systems in transgenic plants. The successful candidate is expected to be an expert in the analysis and manipulation of nucleic acids, including recombinant DNA technology. Candidates who have experience studying transgene expression are desired. **EDUCATION/EXPERIENCE:** Ph.D. or equivalent experience in area of molecular biology plus 3-5 years of directly related laboratory experience.

Applications received by April 22, 1994 will be assured of consideration. However, applications will be considered until the position is filled.

Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO sets of resume information. Indicate the JOB # on the envelope and your correspondence including names, addresses and telephone numbers of three references to:



**PIONEER**

PIONEER HI-BRED INTERNATIONAL, INC.  
Attn: Jo Ann Jorgensen JOB #1357-A  
P.O. Box 1004  
Johnston, IA 50131-1004

## DIRECTOR

The Search Committee of the **Lamont-Doherty Earth Observatory of Columbia University** invites applications and nominations for the position of **Director**.

Lamont-Doherty Earth Observatory is the largest academic earth science institute in the world and fosters research on all aspects of earth, ocean and atmospheric sciences. Multidisciplinary research on global scale problems continues to be a hallmark of the Observatory. The Observatory has scientific, technical and support staff numbering 532, along with over 100 Columbia University graduate students who carry out their Ph.D. research here. In addition, the Observatory operates a state-of-the-art geophysical research ship.

The Director is the chief executive officer of the Observatory and is responsible for fiscal and operating activities, as well as fostering the intellectual health of the campus. Fiscal responsibilities also include supervision of the Observatory's fund raising activities. A distinguished career of scientific or relevant accomplishments, and the ability to be an articulate spokesperson and capable advocate for the Observatory are important criteria in the selection of our new Director. Confidential communications should be addressed to: **Professor Richard G. Fairbanks, Chairman, Director Search Committee, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY 10964, e-mail: fairbank@ldeo.columbia.edu/ fax: 914-365-8153/phone: 914-365-8499.**

*We act affirmatively toward equal employment opportunity.*

## PostDoctoral Research Associate

Will conduct research and study on the biochemistry of baculovirus gene maturation and assembly. Successful applicant will study and apply most aspects of recombinant nucleic acid and baculovirus expression vector techniques. For studies of protein structure pursuant to function, emphasis will also be on recombinant and expression vector technologies. Starting at \$25,000, negotiable commensurate with experience.

Please send resume and three references to:

**Dr. Max Summers**  
Center for Advanced Invertebrate Molecular Sciences  
Texas A&M University  
Department of Entomology  
College Station, TX 77843-2475

*Texas A&M University is an  
Affirmative Action/Equal Opportunity  
Employer*

## Cellular Immunology Gene Therapy

Postdoctoral fellowships are available in the Surgery Branch, NCI for scientist with experience in cellular immunology or molecular biology for research projects dealing with:

1. Studies of the cellular immune response to tumor antigens
2. Gene therapy of cancer

Send resume to:

**Steven A. Rosenberg,  
M.D., Ph.D.**

**Chief, Surgery Branch  
National Cancer Institute  
National Institutes of Health  
Building 10, Room 2B42  
Bethesda, MD 20892  
Telephone: 301-496-4164**



NIH is an Equal Opportunity Employer



## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to participate in molecular biology of and/or cell biology of animal RNA viruses. Strong experience in biochemistry or molecular biology or tissue culture essential. Previous experience in virology not required. Please contact: **Dr. Raju Ramasamy, Microbiology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-6687; FAX: 615-327-6072.** Candidates may also send curriculum vitae and two letters of recommendation to the above address.

### POSTDOCTORAL POSITION

A position is immediately available for an individual interested in proteolytic mechanisms of cellular migration through extracellular matrix. The person should have a working knowledge of protein biochemistry and recombinant DNA technology. The position is for a one-year term which may be extended to two years. Interested persons should send curriculum vitae and the names and telephone numbers of four references to: **Dr. Jay W. Fox, Department of Microbiology, University of Virginia Health Sciences Center, Charlottesville, VA 22908.** The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority scientists.

**POSTDOCTORAL POSITION** available immediately to study adrenergic receptor modulation of calcium homeostasis and contractile function in cardiac myocytes. Preference will be given to applicants with experience in quantitative fluorescence microscopic techniques. Send curriculum vitae and 3 letters of reference to: **Dr. Susan F. Steinberg, Department of Pharmacology, Columbia University, 630 West 168 Street, New York, NY 10032.** Columbia University is an Equal Opportunity/Affirmative Action Employer.

**TWO POSTDOCTORAL POSITIONS** available, one immediately, to study blood cell differentiation, including growth arrest, apoptosis and suppression of leukemia, at the molecular and cellular level. The role and regulation of transcription factors, proto-oncogenes and novel genes is being investigated [MCB 12, 2493 (1992); MCB 13, 841 (1992); Cell 72, 197 (1993); Blood 81, 2257 (1993); MCB 14, 2852 (1994); MCB 14, 2861 (1994)]. Send curriculum vitae and names of three references to: **Drs. B. Hoffman and D. Liebermann, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140.** Temple University is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and minorities.

**POSTDOCTORAL POSITION** available to investigate genes involved in inflammation using tissue culture, transgenic mouse and embryonic stem cell technologies. Expertise in experimental pathology, cell biology or molecular biology required. Send curriculum vitae, names of three references, and statement of research interests to: **Mary C. Dinauer, M.D., Ph.D., Wells Center for Pediatric Research, Indiana University School of Medicine, 702 Barnhill Drive, Indianapolis, IN 46202.** Equal Opportunity/Affirmative Action Employer.

### DUPONT HASKELL LABORATORY

Haskell Laboratory for Toxicology and Industrial Medicine, DuPont, has a **POSTDOCTORAL POSITION** available. The DuPont Company is seeking qualified applicants for a position in Environmental Sciences. The position is available immediately to establish and evaluate *in vitro* sediment toxicology testing methods. Renewable for second year; previous relevant experience preferred. Please submit résumé and two letters of recommendation to: **Ms. Mary Jane Hudson, Administrative Services Associate, Haskell Laboratory for Toxicology and Industrial Medicine, Elkton Road, P.O. Box 50, Newark, DE 19714.**

**POSTDOCTORAL POSITIONS** to study the cell and molecular biology of macrophage activation related to disease. (1) Intrinsic defects in the myeloid lineage of autoimmune-prone mice: cytokine regulation, kinase signaling, patterns of T cell activation (**David Beller, Ph.D.**). (2) Macrophage responses to *M. tuberculosis*: gene expression, transcription factors, intracellular signaling (**Matthew Fenton, Ph.D.**). Immunology Unit, Boston University Medical Center, 88 East Newton Street, Boston, MA 02118. FAX: 617-638-8259.

## POSITIONS OPEN

### SANDIA NATIONAL LABORATORIES/ STERLING-WINTHROP PHARMACEUTICALS POSTDOCTORAL POSITION IN COMPUTATIONAL CHEMISTRY

Sandia National Laboratories in Livermore, California, and Sterling-Winthrop Pharmaceuticals Research Division are assembling a cooperative research team as part of a Department of Energy sponsored CRADA (Cooperative Research and Development Agreement). The goal of this team is to develop state-of-the-art computational chemistry methods for drug design. We have immediate openings for postdoctoral appointments in several areas. Successful candidates should have a Ph.D. in chemistry and proven experience in code development. In addition, they should have experience in one of the following areas: protein homology modeling; calculation of protein structure from NMR or X-ray data; assignment of resonances from multidimensional NMR data; ligand-protein docking; or computer science areas such as databases, graph theory, expert systems, novel optimization methods or statistics. The research group has expertise in a wide range of fields including computational chemistry, X-ray crystallography and NMR spectroscopy. We have access to extensive computing resources including graphics workstation, distributed networks of high-end workstations containing up to 50 nodes, and Intel and nCUBE massively parallel machines. Salary and fringe benefits are extremely competitive. Candidates should send curriculum vitae (with names of references), reprints and uncited copies of college transcripts to: **Dr. Richard Judson, c/o A.M. Isham, Personnel, 8522-S40, Sandia National Laboratories, P.O. Box 969, Livermore, CA 94551-0969.** Deadline is June 1, 1994. U.S. citizenship is required. Equal Opportunity Employer, M/F/V/H.

### POSTDOCTORAL POSITIONS IN OPHTHALMIC LASER RESEARCH

One or two postdoctoral research positions are 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 biomedical engineering, biophysics, optics, or related field is preferred. Successful candidate will be encouraged to develop his or her own independent research program. 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.**

### POSTDOCTORAL POSITION AVAILABLE— POSITIONAL CLONING

An NIH-funded postdoctoral position is available in a multidisciplinary training program to identify genes conferring susceptibility to psoriasis, a common, HLA-associated, familial skin disease. Techniques to be employed include selection cloning, CpG island identification, exon trapping, and mutation detection. Applicants should possess a Ph.D. with experience in molecular biology or molecular genetics, and must be U.S. citizens or permanent residents to qualify for funding. Minority students are particularly encouraged to apply.

Please send curriculum vitae to: **James T. Elder, M.D., Ph.D., Department of Dermatology, University of Michigan, C560A MSRB II, Box 0672, University of Michigan, Ann Arbor, MI 48109-0672.**

The University of Michigan is a non-discriminatory, Affirmative Action Employer.

**RESEARCH WETLANDS ECOLOGISTS** (GS-12). Two **POSTDOCTORAL RESEARCH ASSOCIATE** positions (Forester, Ecologist, Plant Physiologist, or Hydrologist) are available in Charleston, South Carolina, and Stoneville, Mississippi, to plan and conduct research in forest ecology, plant community dynamics, and forest hydrology contributing to understanding of forest wetland structure and functions in southern bottomland forests. Ph.D. in Forestry, Ecology, Hydrology, Plant Physiology, or Soils is required for these two-year positions, which will require extensive travel. Target starting date is June 15, 1994. A completed SF-171, transcripts, description of research interests, and preferred location should be sent by May 6, 1994, to: **Mr. Richard Quick, Southern Forest Experiment Station, USFS, 701 Loyola Avenue, New Orleans, LA 70113.** Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITION TRANSCRIPTIONAL REGULATION UC SAN FRANCISCO

Experienced and productive individual to study protein kinase C regulation of transcription in cardiac muscle (see *JBC* 268: 26658, 1993 and *JBC* 269: 3775, 1994). Relevant expertise required. Salary to \$50,000 for U.S. citizen Ph.D. with 2 years of prior experience. Unexpected opening available immediately. Outstanding opportunity. Letter, curriculum vitae, and references to: **Paul C. Simpson, M.D., Professor of Medicine UCSF, VAMC 111-C-8, 4150 Clement Street, San Francisco, CA 94121.** Closes May 9, 1994.

**POSTDOCTORAL POSITION IN IMMUNOLOGY.** Investigation of EBV/C3 receptors on human T cells (*J. Exp. Med.* 173:971, 1991; *Eur. J. Immunol.* 22:1123, 1992; *Immunol. Today* 14:56, 1993; *J. Immunol.* 150:5311, 1993). Ph.D. and background in Molecular Immunology/Biochemistry required. Specify Job # 094-060, send curriculum vitae, statement of career interests and objectives, and names of three references to: **Constantine D. Tsoukas, Ph.D., Department of Biology, San Diego State University, San Diego, CA 92182-0057.** Affirmative Action/Equal Employment Opportunity/Title IX Employer.

### POSTDOCTORAL POSITIONS

Several positions are available immediately for molecular biologists, cell biologists, and electrophysiologists to study the regulation of ion channels and exocytosis during fertilization. The electrophysiologist should be familiar with patch clamping, and experience with perforated patches is desirable. Interested candidates should send curriculum vitae and the names of three references to: **Dr. Harvey Florman, C/O Human Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.**

An Equal Opportunity/Affirmative Action Employer, M/F/H.

**POSTDOCTORAL POSITION** to study mechanism of action of pyrazinamide and related antimycobacterial agents (see *Journal of Medicinal Chemistry* 35: 1212-1215, 1992). Laboratory actively involved in biochemistry, *in vitro* and murine model studies of *Mycobacterium tuberculosis* and *Mycobacterium avium*. Send curriculum vitae to: **Dr. Michael Cynamon, Central New York Research Corporation, 800 Irving Avenue, Syracuse, NY 13210.** An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately at Harvard Medical School and Beth Israel Hospital for qualified Ph.D. (or M.D.) scientist. Projects involve the use of biochemical, genetic, transgenic, and gene targeting approaches to define the etiology and pathogenesis of non-insulin dependent diabetes and obesity (see *Nature* 366, p. 740, 1993). Successful candidate will have demonstrated experience in the application of techniques of modern cell and molecular biology. Send inquiries and two letters of recommendation to: **Jeffrey S. Flier, M.D., Professor of Medicine, Harvard Medical School, Chief, Endocrine Division, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215.** Women and minorities are encouraged to apply. Beth Israel Hospital is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION IN VIRAL NEUROIMMUNOLOGY** is immediately available to study the immunopathogenic mechanisms involved in a virally induced demyelinating disease as an infectious model for multiple sclerosis. Molecular biological and cellular immunological techniques are heavily used for this project, and candidates who have a Ph.D. and solid working knowledge in these areas will be preferred. Send curriculum vitae and names of three references to: **Dr. Byung Kim, Professor of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

**POSTDOCTORAL POSITION** to study the molecular mechanism of T cell development in mice. Ph.D. or M.D. degree required plus experience in molecular and/or cellular biology. Send curriculum vitae and 3 letters of recommendation to: **Dr. Lisa M. Spain, Assistant Professor, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.** Equal Opportunity Employer.

**Boehringer Ingelheim Pharmaceuticals, Inc.** has earned a position of strength and respect in the pharmaceutical industry. We are currently conducting a search for an experienced Ph.D. to join us in our suburban Connecticut facility and work with us in our continued success.

## ELECTROPHYSIOLOGIST

The Electrophysiologist we seek will help us to examine the underlying mechanisms in, and the effects of, drugs on leukocyte development, activation and proliferation. The ideal candidate has 2 or more years post-doctoral experience in whole cell and single ion channel electrophysiological recording techniques with an emphasis on cell types involved in immune function. Experience in ion channel expression and regulation in xenopus oocytes is desirable.

Boehringer Ingelheim is located on a campus-like setting in a beautiful area of Western Connecticut. Boehringer offers a competitive salary and benefits package including relocation assistance for qualified candidates. To apply, send resume and salary history to: **Dept. JC-1S, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, Ridgefield, CT 06877-0368.** An equal opportunity employer m/f/d/v. As a progressive health care company, we have a non-smoking environment.



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### RESEARCH SCIENTIST Immunology

Working in a multidisciplinary environment, you will interact with scientists from the Molecular Biology, Bacteriology, Virology, and Protein and Carbohydrate Chemistry Departments in the design and preclinical testing of prototype vaccine formulations.

To qualify, you should have a Ph.D. (or equivalent), 2-5 years' experience in humoral and cellular immunology, and a knowledge of the mucosal immune system.

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## THE NEUROSCIENCES INSTITUTE

La Jolla, California

THE NEUROSCIENCES INSTITUTE (NSI) IS AN INDEPENDENT not-for-profit organization at the forefront of research on the brain. The NSI, located on the campus of The Scripps Research Institute in La Jolla, is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

### EXPERIMENTAL NEUROBIOLOGY

APPLICATIONS ARE INVITED FOR POSITIONS AS SENIOR Fellow and Junior Fellow in Experimental Neurobiology. The NSI is beginning a research program in experimental neurobiology designed to increase understanding of brain processes at several organizational levels from the molecular to the cognitive. After completion of new NSI laboratory facilities in the autumn of 1994, research will be carried out in such areas as molecular biology, cellular neurobiology, pharmacology, neuroanatomy, functional brain imaging, and psychophysics. Fellows in Experimental Neurobiology will be expected to take advantage of opportunities for scientific exchanges with Fellows in Theoretical Neurobiology.

Applicants should be at the assistant professor (Senior Fellow) or postdoctoral (Junior Fellow) level and should have backgrounds in experimental neurobiology. Senior Fellows will be provided with adequate financial support to equip laboratories and maintain ongoing independent research programs. Starting dates for these positions will be autumn 1994 or thereafter.

### THEORETICAL NEUROBIOLOGY

APPLICATIONS ARE INVITED FOR POSITIONS AS INSTITUTE Fellow in Theoretical Neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and detailed formulations of biologically based models of perceptual systems. Advanced supercomputer facilities are available. Institute Fellows will have daily opportunities to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral or assistant professor level with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome. Positions are now available.

ALL FELLOWS WILL RECEIVE STIPENDS APPROPRIATE TO their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: **Dr. Gerald M. Edelman, Director, The Neurosciences Institute, 3377 North Torrey Pines Court, Suite 310, La Jolla, California 92037.**



## POSITIONS OPEN

**BIOLOGY:** Viterbo College invites applications for a 1-year position with possible renewal to teach biochemistry, comparative animal physiology, and introductory biology. Application review begins April 22, 1994. Application, curriculum vitae, 3 letters of recommendation, graduate transcripts to: **Dr. Linda Malick, Chair Biology Department, Viterbo College, 815 South 9th Street, La Crosse, WI 54601. Equal Opportunity/Affirmative Action Employer.**

### DIRECTOR, CENTER FOR WILDLIFE ECOLOGY

The Center for Wildlife Ecology (CWE) of the Illinois Natural History Survey (INHS) invites applications for a terrestrial vertebrate ecologist at the associate or full professional scientist level. Candidates must have experience and interests in administration and research. The successful applicant will: (1) administer and interact with staff members who conduct multidisciplinary research programs; (2) facilitate and assist staff in securing funding for research; and (3) develop or maintain an extramurally funded research program. Professional scientists at INHS are appointed for an indefinite term, whereas the additional duties and responsibilities of Center Directors are reviewed and renewable every four years. The full-time, state-supported position is on the University of Illinois campus. Opportunities exist for university affiliations and advising graduate students. Applicants must have a national reputation and an earned Ph.D. in a discipline of biology represented by CWE. Applications should be received by 16 May 1994. Submit letter of application, résumé, statement of administrative and research interests, and the names, addresses, and telephone numbers of four references to: **Ms. Jacqueline Sanders, Personnel Officer, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820; Telephone: (217) 244-7790. FAX: (217) 333-4949. The INHS is an Equal Employment Opportunity/ADA Employer.**

**NEUROPATHOLOGY DIRECTOR**—The New York Hospital—Cornell Medical Center Department of Pathology is searching for a board certified academic neuropathologist to direct an active neuropathology service. The individual will also be expected to carry on a clinical or basic research program and engage in resident and medical student teaching. Candidates who have a research background, a record of publications and external funding will be given preference. Financial support is available to help establish new research programs. Strong programs in neurology and neuroscience at the institution and at the neighboring Rockefeller University and Memorial Sloan-Kettering Cancer Center offer outstanding opportunities for collaboration. Academic rank and salary will be commensurate with experience and scholarly accomplishments. Interested candidates should submit curriculum vitae and the names of three references to: **Dr. Daniel M. Knowles, Professor and Chairman, Department of Pathology, The New York Hospital—Cornell Medical Center, 525 East 68th Street, New York, NY 10021. Cornell University Medical College is an Affirmative Action/Equal Opportunity Employer.**

**RESEARCH INSTRUCTOR AND POSTDOCTORAL FELLOW.** Available immediately for well-funded new initiative to study cell growth regulation and signal transduction for candidates with background in molecular biology and/or protein purification. Please send curriculum vitae and three letters of recommendation to: **Dr. Sarah Spiegel, Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, 307 Basic Science Building, 3900 Reservoir Road, NW, Washington, DC 20007. Telephone: 202-687-1432. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study the IL-6 signal transduction pathway in B cells and the mechanism of regulation of late B cells-specific genes by IL-6 inducible transcription factors. Training in molecular biology is essential and experience in immunology or biochemistry is preferred. Please submit curriculum vitae, a brief statement of research interests and three letters of reference to: **Dr. Selina Chen-Kiang, Brookdale Center for Molecular Biology, Box 1126, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Telephone: 212-241-6588; FAX: 212-860-9279.**

## POSITIONS OPEN

### HEAD DEPARTMENT OF BOTANY

The College of Agriculture and Life Sciences of North Carolina State University is searching for an outstanding individual to administer the teaching and research programs of the Department of Botany. Applicants should possess an established reputation in Plant Sciences, a Ph.D. degree and academic experience in teaching, advising, and research commensurate with the rank of Full Professor. Administrative experience or demonstrated leadership potential is preferred. Applications should include a résumé with publication list, names and addresses of at least three references and a letter describing interests and qualifications for the position. Date available is July 1, 1994, and the preferred application deadline is May 31, 1994, or until a suitable candidate is identified. Address applications to: **Dr. Stephanie E. Curtis, Chair, Search Committee; Department of Genetics, Box 7614, North Carolina State University, Raleigh, NC 27695-7614. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.**

### THE HEBREW UNIVERSITY— HADASSAH MEDICAL SCHOOL JERUSALEM, ISRAEL FACULTY POSITIONS

Applications are welcomed for positions that will be available for the academic year, 1995/96:

(I.) Tenure-track faculty positions in basic medical sciences with preference to candidates who utilize modern molecular/cellular approaches.

(II.) A tenure-track position in physiology with preference to a candidate who utilizes a cellular/molecular approach in either cardiovascular, renal, pulmonary or digestive system physiology.

Ph.D. and/or M.D. degree and postdoctoral training are required. Excellence in research and teaching will be of prime importance for decisions of the search committee. Candidates are expected to develop independent research. Curriculum vitae, list of publications, 3 to 5 selected reprints, research plans and three (3) letters of recommendation addressed to the Dean, **Prof. O. Abramsky**, should arrive at the Dean's office (P.O.B. 12272, Jerusalem 91120, Israel) no later than June 15, 1994.

### POSTDOCTORAL POSITION IN EXPERIMENTAL ONCOLOGY

**St. Jude Children's Research Hospital  
Memphis, Tennessee**

A postdoctoral position is available to participate in an established research program investigating the role of specific chromosomal translocations in the etiology of pediatric solid tumors. Current investigations focus on the isolation of the genes located at these breakpoints, the characterization of their transcriptional and transforming properties, and the development of molecular strategies for solid tumor therapy based upon targeting of their encoded proteins. The research environment is highly interactive with opportunities for linking projects to medical applications in the areas of cancer diagnosis and therapeutics. Candidates with a Ph.D. and/or M.D. degree interested in joining a multidisciplinary group utilizing techniques of biochemistry, molecular biology, and molecular cytogenetics to understand mechanism underlying tumorigenesis should submit curriculum vitae, reprints, and the names of three references to: **Dr. Davis N. Shapiro, Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available for studies of signal transduction and contractile system function in vascular smooth muscle. Intrdisciplinary approaches involving biochemistry, biophysics and cellular physiology suitable for applicants with training in biochemistry, biophysics, cell biology, physiology or pharmacology. Funding limited to individuals eligible for NIH training grant support. Send statement of research interests and curriculum vitae with names of references to: **Dr. Richard A. Murphy, Department of Molecular Physiology and Biological Physics, Box 449, Health Sciences Center, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Employment Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### LAB SUPERVISOR MOLECULAR BIOLOGY

**MICROBIOLOGICAL ASSOCIATES, INC.** is an established and expanding biotechnology and toxicology testing service business. This individual will supervise a high-volume, multi-project commercial molecular biology lab. Requires experience in trouble-shooting scientific studies, analyzing and evaluating experimental and test data, preparing technical reports and writing SOP's. GLP experience essential. GMP experience desired. Requires 5 plus years in molecular biology techniques and 2 years of supervisory experience. Please send your résumé (with current salary) to Human Resources Department: **MICROBIOLOGICAL ASSOCIATES INC., 9900 Blackwell Road, Rockville, MD 20850. FAX: (301) 738-1036. Equal Opportunity Employer/m/f/d/v.**

**POSTDOCTORAL POSITION:** Available immediately to study the transport of RNA on cytoskeletal elements in oligodendrocytes. The project will involve biochemistry/molecular biology coupled with video and confocal microscopy to examine the motor molecules responsible for movement per se and to identify the adaptor proteins involved in targeting specific RNA's for transport. A strong background in biochemistry is required and experience with microscopic analysis is highly desirable. The project will be a collaborative effort among the labs of **Drs. John Carson, Murray Deutscher and Stephen King**. Send curriculum vitae and the names and addresses of 3 references to: **Dr. Murray Deutscher, Department of Biochemistry, University of Connecticut Health Center, Farmington, CT 06032-3305. Telephone: (203) 679-2130 (JC); 679-2506 (MD); 679-3347 (SK). FAX: (203) 679-3408.**

*An Affirmative Action/Equal Opportunity Employer  
M/F/PwD/V.*

**POSTDOCTORAL POSITION** available to study molecular and cellular mechanisms involved in signalling and regulation of thromboxane receptors. Project will focus on structure/function relationships in G-protein coupling and receptor desensitization. Ongoing research includes analysis of thromboxane receptor gene regulation and thromboxane effects in vascular smooth muscle and platelets. Ours is a well-funded laboratory of Ph.D.'s, M.D.'s and M.D./Ph.D.'s working together to characterize thromboxane's role in platelet-vascular interactions. Interested parties should send curriculum vitae and references to: **Gerald W. Dorn II, Associate Professor of Medicine/Cardiology and Pharmacology and Cell Biophysics, University of Cincinnati Medical Center, 231 Bethesda Avenue, ML0542, Cincinnati, OH 45267-0542. FAX: (513) 558-3116. The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** (2 years) is available immediately for studying the role of growth factors in lung development and specific lung diseases. Strong background in molecular biology is essential. Molecular biological, biochemical and immunochemical techniques will be used to study the regulation of genes encoding pulmonary surfactant proteins, and growth factors and their receptors. Application deadline is May 1, 1994. Send curriculum vitae and three letters of recommendation to: **Sikandar Katyal, Ph.D., Associate Professor, Department of Pathology, Division of Cellular and Molecular Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261.**

### POSTDOCTORAL POSITIONS IN IMMUNOLOGY

Immediately available for recent Ph.D. or M.D. interested in cellular and molecular aspects of lymphocyte development and maturation. The candidate will receive training in state-of-the-art molecular and immunobiologic techniques. Current research areas include: helper T cell development and differentiation into memory (**Hayakawa**); and B cell development, selection and repertoire formation (**Hardy**). Experience in immunology is preferred but candidates with a strong background in molecular biology and biochemistry also welcome. Please forward curriculum vitae and names of 3 references to: **Dr. Kyoko Hayakawa or Dr. Richard R. Hardy, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. We are an Equal Opportunity Employer.**

## HELLENIC PASTEUR INSTITUTE

The Hellenic Pasteur Institute invites applications for the position of its General Director.

Candidates should submit a resume which provides qualifications and experience compatible with the scientific virtues and activities of the Hellenic Pasteur Institute, which are as follows:

1. Public Health
2. Research in Human and Animal Microbiology and Immunology
3. Training of Scientists in related areas
4. Production of vaccines, biologicals and therapeutic substances

Contracts are of three years duration. Applications should be forwarded to the: Hellenic Pasteur Institute, 127 Av. Vas. Sophias, Athens 115 21, Greece. (tel: 301 6447959-960) Closing date: 10 May, 1994.



# Leicester University

## APPOINTMENTS IN BIOLOGICAL CHEMISTRY AND BIOMOLECULAR SCIENCES

- (1) Chair in Macromolecular Crystallography
- (2) Senior Lectureship in Computational Chemistry
- (3) Lectureship in Structural Biochemistry

The University intends to build on its existing strengths in molecular and cell biology, biological spectroscopy, bio-organic chemistry, and protein sciences with the establishment of a Macromolecular Crystallography Group in the Centre for Biomolecular Sciences. The closing date for applications for each of the above positions is 16 May 1994; but the appointment to the Chair will be made first, to enable the successful candidate to participate in the appointments to the other two posts. Further particulars may be obtained from the Staffing Office (Academic Appointments), University of Leicester, University Road, Leicester, LE1 7RH, Telephone (0533) 522422, Fax number (0533) 525140.

Informal enquiries concerning positions (1) and (3), which will be in the Department of Biochemistry, may be made to: Professor W. V. Shaw, Telephone (0533) 525024 or Fax (0533) 523369 or Professor G. C. K. Roberts, Telephone (0533) 525534 or Fax (0533) 525526. Professor J. H. Holloway, Telephone (0533) 522106 or Fax (0533) 523789 will be pleased to answer questions concerning position (2), an appointment in the Department of Chemistry.

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## University of Basel (Switzerland) Professor of Conservation Biology (ausserordentlicher Professor)

This position is offered as part of a new program in applied aspects of ecology and conservation biology. The successful candidate should have a degree in biology and should establish a new, integrated study programme in conservation of nature, landscape and environment in close co-operation with a newly established professorship in applied aspects of geography. Candidates with a good background in plant science are preferred.

The candidate will be expected (1) to teach basic courses in environmental biology, (2) to participate in graduate teaching in biology, (3) to take part in the programs of ecological botany, (4) to launch or to participate actively and creatively in interdisciplinary research projects, (5) to establish a link to practitioners of conservation biology, and (6) to be familiar with the flora and/or fauna of Central Europe.

Preference is given to biologists with international research experience in conservation biology and with an interest in problems of protection and sustainable management of ecosystems.

In case of equal qualifications, preference will be given to female applicants. Applications with curriculum vitae, copies of three to five important publications, and a brief statement about current and future research plans should be submitted until May 20, 1994, to: Dekanat der Philosophisch-Naturwissenschaftlichen Fakultät, Klingelbergstrasse 23, CH-4056 Basel (Switzerland). Further inquiries about the position should be addressed to the chairman of the search committee, Prof. Thomas Boller (Botanisches Institut, Hebelstrasse 1, CH-4056 Basel, Telephone +41 61 261 92 34).

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Available immediately to study molecular and cellular regulation of glucose metabolism in gestational diabetes. Studies include insulin signal transduction in muscle and participation in development and analysis of transgenic animals with emphasis on adipocyte metabolism. Candidate should have strong training in molecular biology/biochemistry and previous experience with tissue culture. Send/FAX curriculum vitae, and 3 references by April 25, 1994, to: Dr. Jacob E. Friedman, Department of Biochemistry, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106. Telephone: (216) 368-1616; FAX: (216) 368-4544.

## POSTDOCTORAL POSITIONS

Postdoctoral positions are available in the Department of Molecular Biology and Biochemistry at the University of California, Irvine. These positions are for 1 or 2 years under the sponsorship of the following faculty members: **D. Aswad:** biochemistry of neural functions; **B. K. Burgess:** biochemistry and genetics of nitrogen fixation; **M. F. Cumsy:** mitochondrial protein import and gene expression in yeast; **R. Davis:** biochemical genetics of *Neurospora*; **E. Ehrenfeld:** molecular mechanisms of replication in poliovirus and hepatitis A virus; **H. Y. Fan:** animal virology nucleic acid studies in murine leukemia viruses; **C. Glabe:** developmental biology, cell-cell interactions; **G. A. Granger:** cell and molecular mechanisms operative in cellular immunity; **B. A. Hamkalo:** eukaryotic chromosome structure and function; **A. Henschen:** structure-function relationships in proteins; **A. A. James:** molecular biology of insect vectors of infectious diseases; **J. E. Manning:** gene sequence organization in eukaryotic DNA, electron microscopy; **R. Milei:** neurotransmitter receptors and synaptic functions; **M. B. O'Connor:** molecular genetics of development; **T. Poulos:** protein X-ray crystallography and protein engineering; **D. F. Sencar:** regulatory energetics and protein-DNA assemblies; **T. Osborne:** molecular biology of transcriptional regulator proteins; **W. M. Stanley, Jr.:** protein biosynthesis in eukaryotic cells; **A. Tenner:** molecular basis of the enhancement of leukocyte function; **K. K. Tewari:** nucleic acids of chloroplasts and other organelles; **S. Tewari:** neuro-molecular biology and CNS acting drugs; **L. P. Villarreal:** molecular biology of small DNA viruses; **E. K. Wagner:** nucleic acids and molecular biology of herpesvirus replication; **C. A. Woolfolk:** general microbiology, enzymology. We are recruiting for the 1994-95 academic year. Applicants for postdoctoral studies should send curriculum vitae and the names and addresses of three referees to the appropriate members of the participating faculty. Deadline for applications is February 28, 1995. For further information contact or write to: **The Department of Molecular Biology and Biochemistry, University of California Irvine, Irvine, CA 92717. The Department of Molecular Biology and Biochemistry encourages female and minority applicants to apply. The University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.**

**POSTDOCTORAL POSITION** available to investigate the influence of chemical structure on the hepatic uptake and disposition of natural and synthetic retinoids. Experience with perfused organ systems or cellular systems is desirable. Send curriculum vitae, a letter of application describing research experience, and a list of three references to: Dr. Cheryl L. Zimmerman, College of Pharmacy, University of Minnesota, 308 Harvard Street, S.E., Minneapolis, MN 55455.

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**POSTDOCTORAL POSITIONS** available to work on either (i) Function and structure of the pleckstrin homology (PH) domain (see *Biochem. Biophys. Res. Comm.* 195:1145-1151, 1993) or (ii) studies of neurofilaments and their associated proteins (see *J. Neurocytol.* 22:1039-1059, 1993). Molecular biological, biochemical and immunological expertise would all be advantageous. Send curriculum vitae and reference letters to: Dr. Gerry Shaw, Department of Neuroscience, JHMHCB Box J-100244, Gainesville, FL 32610; E-mail: SHAWGPJ@NERVM.BITNET. *Equal Employment Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### HUMAN MOLECULAR GENETICS

**POSTDOCTORAL POSITION.** Join us in positional and subtractive cloning of human glaucoma genes. Applicant should have a strong background in molecular biology. Send curriculum vitae, brief description of prior research, and names of three references to: Julia E. Richards, Ph.D., Department of Ophthalmology, The University of Michigan, 537 W. K. Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105. A nondiscriminatory, Equal Opportunity Employer.

### POSTDOCTORAL FELLOWSHIPS

The Center for Functional Imaging in the Life Sciences Division of the Lawrence Berkeley Laboratory currently has two positions available: (1) Synthetic Organic Chemist, Medicinal Chemist or Radiochemist to synthesize short-lived PET radiopharmaceuticals. Candidate will interact with a multidisciplinary group of scientists and physicians to develop metabolic tracers for neurological imaging. Recent Ph.D. in Chemistry with experience in synthetic organic chemistry and spectroscopic techniques required. Experience in isotopes labeling desired. Box # JSCI2352. (2) Biochemist to develop and apply techniques for neuropharmacological studies in animals in conjunction with neurochemical studies using PET. Recent Ph.D. in Biochemistry or Pharmacology with experience in metabolite extraction from animal tissues, HPLC and the use and handling of radioisotopes. Experience in electrochemical detection and neurochemical *in vivo* microdialysis techniques, tissue preparation for autoradiographic studies and receptor binding studies desired. Box # JSCI2316. Send curriculum vitae and names of three references, indicating Box #, to: Lawrence Berkeley Laboratory, Staffing Office, One Cyclotron Road, Building 938A, Berkeley, CA 94720. An Equal Opportunity Employer.



### POSTDOCTORAL TRAINING IN NEUROSCIENCE

**POSTDOCTORAL FELLOWSHIPS** are available for training in neuroscience-oriented approaches to drug abuse research through a training program funded by the National Institute of Drug Abuse (NIDA). Research emphases include design of novel ligands for opioid receptors, molecular biology of opioid and catecholaminergic receptors, signal transduction of opioid receptors, and peripheral and spinal mechanisms of pain and analgesia. A dynamic neuroscience community enhances training opportunities with a critical mass of NIDA-supported investigators who have a productive history of collaborative research. Trainers include: D. R. Brown, R. Elde, G. J. Giesler, K. Hargreaves, A. A. Larson, P.-Y. Law, H. Loh, P. Portoghesi, V. S. Seybold, B. Sharp, S. Thayer and G. Wilcox. Eligible candidates must have completed a Ph.D. degree or equivalent by the time of appointment and must hold U.S. citizenship or permanent resident status. Address applications (curriculum vitae plus statement of training goals) and 3 letters of reference to: Virginia S. Seybold, Ph.D., Department of Cell Biology and Neuroanatomy, University of Minnesota, 4-135 Jackson Hall, 321 Church Street, S.E., Minneapolis, MN 55455. E-mail: ginger@med.umn.edu. Application deadline is May 15, 1994. *The University of Minnesota is an Equal Opportunity Employer and Educator.*

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

#### Ligand-binding transcription factors and target sites

NIH and NSF-funded research training in the isolation and characterization of hormone receptors and transcription factors regulated by receptor action. The research involves identification and analysis of target binding sites for these regulators on promoter DNA.

Experience in protein biochemistry or molecular biology preferred. Send curriculum vitae and names of three references to: David Stiles, Molecular and Cellular Biology Section, School of Biological Sciences, University of Kentucky, Lexington, KY 40506. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH FELLOW** position available at the University of Pennsylvania, School of Dental Medicine. The position will involve studying energy metabolism in relationship to the mineralization of cartilage and bone. Applicants should have a Ph.D. and a background in cell culture, protein biochemistry and molecular biology. Please contact Dr. Irving M. Shapiro at 215-898-8936 or send curriculum vitae to: University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, 520 Levy, Philadelphia, PA 19104-6002 or FAX to 215-898-3695. *University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL RESEARCH POSITION IN p53-DEPENDENT CELL CYCLE REGULATION

Positions available immediately for recent graduates trained in cell biology, molecular biology and biochemistry. Studies to investigate the cellular function of the p53 antioncogene utilizing novel cell lines that express inducible p53 genes. Interested graduates should forward curriculum vitae and three letters of reference to: James L. Sherley, M.D., Ph.D., c/o MAS-Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. *Equal Opportunity Employer.*

### POSTDOCTORAL SCIENTIST THEORETICAL POPULATION GENETICS

The National Science Foundation Center for Microbial Ecology at Michigan State University seeks a postdoctoral scientist to conduct research in cooperation with a team of Japanese scientists. One part of this collaborative research is focused on evolutionary aspects of mutation rate in microorganisms. An individual with training in theoretical population genetics is being sought.

The individual selected will conduct research with our collaborators in Tokyo, Japan, and will receive a competitive salary plus cost-of-living adjustment, relocation and housing expenses. It is anticipated that the appointment will be made for 2 years, with a possible third year in the Center for Microbial Ecology at Michigan State University. *U.S. citizenship is required.* The position will remain open until a suitable candidate is found. Screening of candidates will begin in May 1994.

To apply, send a letter describing your training and research interests, curriculum vitae and arrange for three letters of reference to be sent to: Dr. Richard E. Lenski, Center for Microbial Ecology, 540 Plant & Soil Sciences Building, Michigan State University, East Lansing, MI 48824-1325. *MSU is an Equal Opportunity Employer.*

**POSTDOCTORAL SCIENTIST.** National Institute for Environmental Studies, Environmental Health Sciences Division. Applications are invited for a 1 to 2 year postdoctoral position, supported by STA fellowship, for research into the physiological roles of metallothionein. Experience in molecular biology, biochemistry and cell biology would be an asset. Before application, please read carefully details of the employment condition and eligibility (*Science* 255, 1644-1645, 18 March 1994). Submit curriculum vitae, and names of three references to: Dr. Chiharu Tohyama, Environmental Health Science Division, NIES, 16-2 Onogawa, Tsukuba 305, Japan. FAX: +81-298-51-0471.

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## National Science Foundation (NSF)

NSF's Division of Environmental Biology (formerly Biotic Systems and Resources) is seeking qualified applicants for Program Director positions in FY 94. The incumbents to these positions will administer grant programs of research in the following areas: ecology, systematic biology, population biology and ecosystem studies. These positions will be filled on a one- or two-year visiting scientist/temporary basis and are excepted from the competitive civil. These positions may also be filled on a permanent basis.

The per annum salary range is \$59,022 to \$91,988. Applicants must have a Ph.D. or equivalent experience. In addition, six or more years of successful research experience beyond the Ph.D. is required. Some administrative experience is also desired. Applications are also being accepted for future vacancies for these positions.

Applicants should submit a Standard Form 171, Applications for Federal Employment, or resume to the National Science Foundation, Division of Human Resource Management Office, Suite 315, 4201 Wilson Blvd., Arlington, VA 22230. Attn: Catherine Handle. Call 703/306-1185 for further information about the NSF application process, or 703/306-1480 for technical details on these specific positions. Hearing impaired individuals should call 703/306-0090.

No person, otherwise qualified, shall be discriminated against on the basis of race, color, religion, sex, national origin, age, or disability or otherwise be excluded from being hired by NSF.

## Assistant Professor of Biochemistry

The Department of Biochemistry, Midwestern University, invites applications for a new, tenure-track Faculty position at the rank of Assistant Professor. Applicants must hold a Ph.D. degree in Biochemistry (or equivalent), have completed a postdoctoral research fellowship, and have demonstrated both ability and interest in teaching Biochemistry to health career students. The successful candidate will teach in several team-taught courses (Biochemistry, Nutrition, Genetics) for health career students (medical, pharmacy and allied health), and will develop an independent research program in Biochemistry. Interested applicants should send a cover letter summarizing their teaching experience and current research interest, and future plans; curriculum vitae; representative publications; and the names of three references. Candidates invited for interviews must also submit a teaching portfolio.

Interested applicants should send the above items to: Sandra Lee, Ph.D., Chairman, Biochemistry Department.



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The successful candidate will investigate antiviral agents in cell-based systems, develop in vitro and in vivo assays and participate in external research collaborations. Development of novel antiviral approaches is an essential part of this position.

The successful candidate will have a minimum of three years of post-doctoral experience and hands-on familiarity with retroviruses (preferably HIV). A demonstrated ability for research in cell-based systems is required. A record of productivity, indicated by a sustained publication record is essential.

Interested individuals should forward their resume and a list of references to Box DCS-93042, PARKE-DAVIS Pharmaceutical Research, Human Resources, 2800 Plymouth Road, Ann Arbor, MI 48105.



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The successful candidate will have the following qualifications and experience:

- PhD in the natural sciences with a minimum of 10 years post degree experience;
- Principal Investigator experience, preferably with polar field experience;
- Administrative and technical management of large multi-disciplinary science projects and programs in the public/private sector;
- Demonstrated experience in the supervision of personnel, project planning, budgeting and bottom line accountability;
- Comprehensive understanding of laboratory management and operations based on direct experience.

It is desirable for the candidate to have an understanding of science computer support technology, antarctic or southern oceans research experience, and fluency in Spanish.

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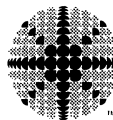
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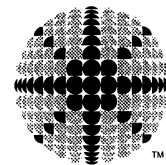
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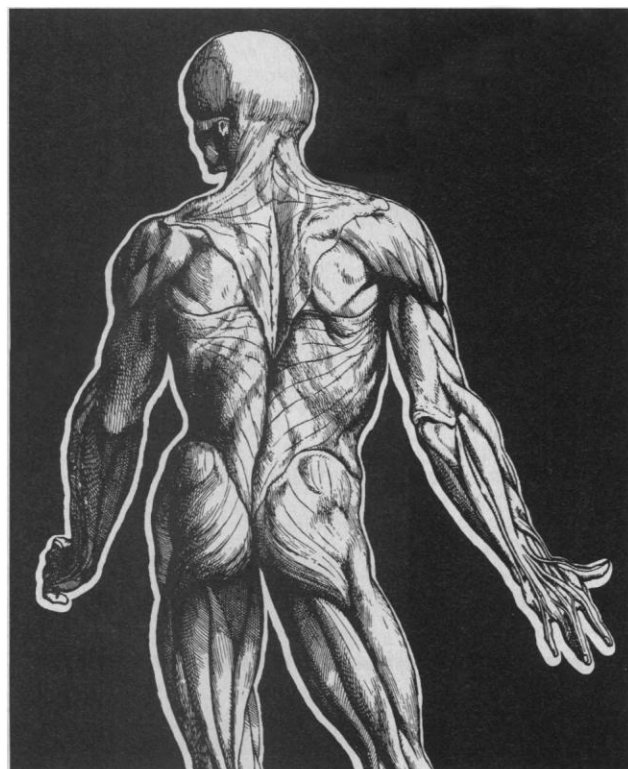


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# Announcing the 2nd Annual BS/MS Careers Issue *August 26, 1994*

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*A. K. Ganguly, V.P., Chemical Research,  
Schering Plough Research Institute*

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SCIENCE Magazine offers you a once a year opportunity to reach the best and brightest science students and tell them about your career opportunities in the August 26, 1994 issue. You'll reach over 159,000 regular subscribers as well as get special bonus distribution to top science students around the US.

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Make sure your message gets the impact you need through our regular 159,000 subscriber base and through the bonus distribution to students in the top biology and chemistry programs around the US. Full page advertisers get bonus distribution to the top 50 colleges and universities in the special reprint of the BS/MS advertising section.

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## **The clock is ticking, so don't delay!**

Timing means everything when you need to reach top scientists. Advertising in SCIENCE increases your chance of reaching the best and brightest candidates first. Get scientists excited about your company. Advertise in SCIENCE!

## **Placing your ad is easy!**

The SCIENCE recruitment advertising staff makes your advertising placement easy! Call Janis Crowley at (212) 496-7704, or fax (202) 682-0816 for more information.

# SCIENCE

## **Listing of colleges and universities participating in the 1993 bonus distribution of the SCIENCE BS/MS reprint:**

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Vanderbilt University  
Washington University  
Winston-Salem State  
University\*  
Yale University

**Advertising Space Reservation  
Deadline: August 9, 1994.**

*\*Denotes institution with historically high minority enrollment*

## POSITIONS OPEN

**ASSOCIATE RESEARCH SCIENTIST:** Prepare and transplant cells; eye surgery on experimental animals; process histology specimens with microtome, cryostat, autoradiography; study tissue with light, electron microscopy, and histochemical methods; record/analyze experimental results. Organize data for publication. M.D. in Medicine plus 2 years in job or 2 years of ophthalmology involving eye surgery. Minimum of 3 publications in eye research. Send curriculum vitae to: **P. Gouras, M.D., Department of Ophthalmology, 630 West 168 Street, New York, NY 10032.**

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### RESEARCH ASSOCIATE/ ECOLOGICAL MODELER UNIVERSITY OF THE VIRGIN ISLANDS ST. THOMAS

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**FLOW CYTOMETER OPERATOR.** Responsible for the operation and maintenance of institutional flow cytometry facility including a Becton-Dickinson FACScan and cell sorter. Also responsible for development of new protocols, user training and technical assistance. Experience in flow cytometry, medical technology and computer systems desirable. Background and degree in biological sciences preferred. Excellent benefits package. Send curriculum vitae and 3 letters of reference to: **Leo Lefrançois, Ph.D., UConn Health Center, Department of Medicine, 263 Farmington Avenue, Farmington, CT 06030-1310; FAX: 203-679-1287.**

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TransPharm, Inc., is focused on the production of pharmaceutical and nutritional proteins in the milk of transgenic animals. We are currently seeking a postdoctoral scientist for our bovine embryonic stem cell research program. The successful candidate will have a strong background in developmental biology and experience in one or more of the following areas: mammalian embryo culture, embryo manipulation, murine embryonic stem cells or tissue culture. This project will be conducted in collaboration with our affiliate, Pharmaceutical Proteins, Ltd., Edinburgh, UK. Academic collaborations are also possible.

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**BIOLOGISTS**—Wildlife, fisheries, ecology, forestry, GIS, and genetics. LGL Alaska Research Associates is reviewing résumés for seasonal, part- and full-time positions in Alaska. Faculty, students, and other professionals desiring a challenging research environment should submit a letter and résumé (no telephone calls, please) to: **LGL Alaska Research Associates, 4175 Tudor Centre Drive, Suite 101, Anchorage, AK 99508.**

**SCIENTIST**—Research hematologist. To work on a challenging sample preparation project. Small, fast-moving company, planning to expand a project in automated cytometry, is looking for a multidisciplinary scientist with at least five years of postdoctoral experience in two or more of the following fields: Microscopic Hematology, FISH, Density Gradients, Enzymology, Cytochemistry, Cytogenetics. A very focused project will lead to future opportunities for more independent product innovation. We offer competitive salaries and benefits. Send letter of interest and résumé to: **Ruth White, Applied Imaging Corporation, 2380 Walsh Avenue, Building B, Santa Clara, CA 95051.**

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Ecogen Inc., an international agricultural biotechnology company located in the Philadelphia area and specializing in microbial pesticide development and biological control, has immediate openings for the following positions:

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Analytical protein biochemist with experience in quantitative assay development including immunoassays.

Interested candidates should submit a current résumé including the names, addresses, and telephone numbers of three references to:

**Ecogen Inc.  
Human Resources Department #94-17  
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Equal Opportunity Employer.**

**RESEARCH STAFF ASSOCIATE:** Position in a stroke study at the Columbia Presbyterian Medical Center. Preference for those with B.S., M.S., or MPH in epidemiology and prior clinical experience. Duties include: supervision of data collection staff, review of medical information, patient interviews, data analysis, and writing reports. Address inquiries to: **Ralph Sacco, M.D., Neurological Institute, Room 547, 710 West 168th Street, New York, NY 10032.** *An Affirmative Action/Equal Opportunity Employer.*

## MEETINGS

### CONVOCATION ON SCIENTIFIC CONDUCT June 6-7, 1994

The officers of the National Academy of Sciences, National Academy of Engineering, and the Institute of Medicine are holding a public convocation on the responsible conduct of science. Its purpose is to encourage continued progress in this area and identify key steps toward maintaining the highest standards of scientific conduct in the future. A poster and resource session is planned for Monday. Those interested in bringing materials should call **202-334-2483.** The convocation is free. To register please FAX your name, address, affiliation, telephone and FAX numbers **(202-334-1687).** You may also E-mail: **SSpauldi@NAS.EDU.** Deadline: May 27, 1994.

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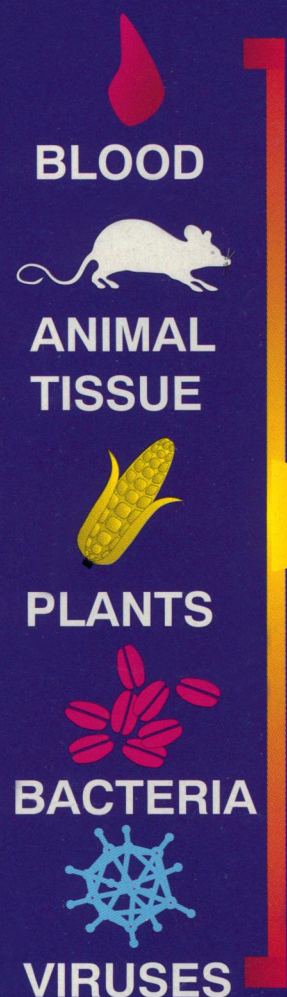
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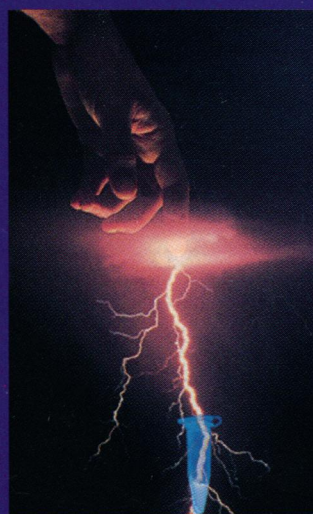
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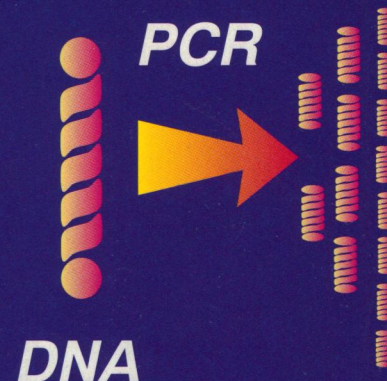
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WINNER



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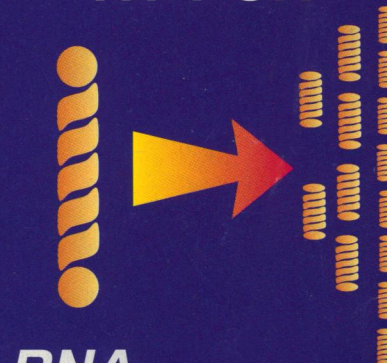


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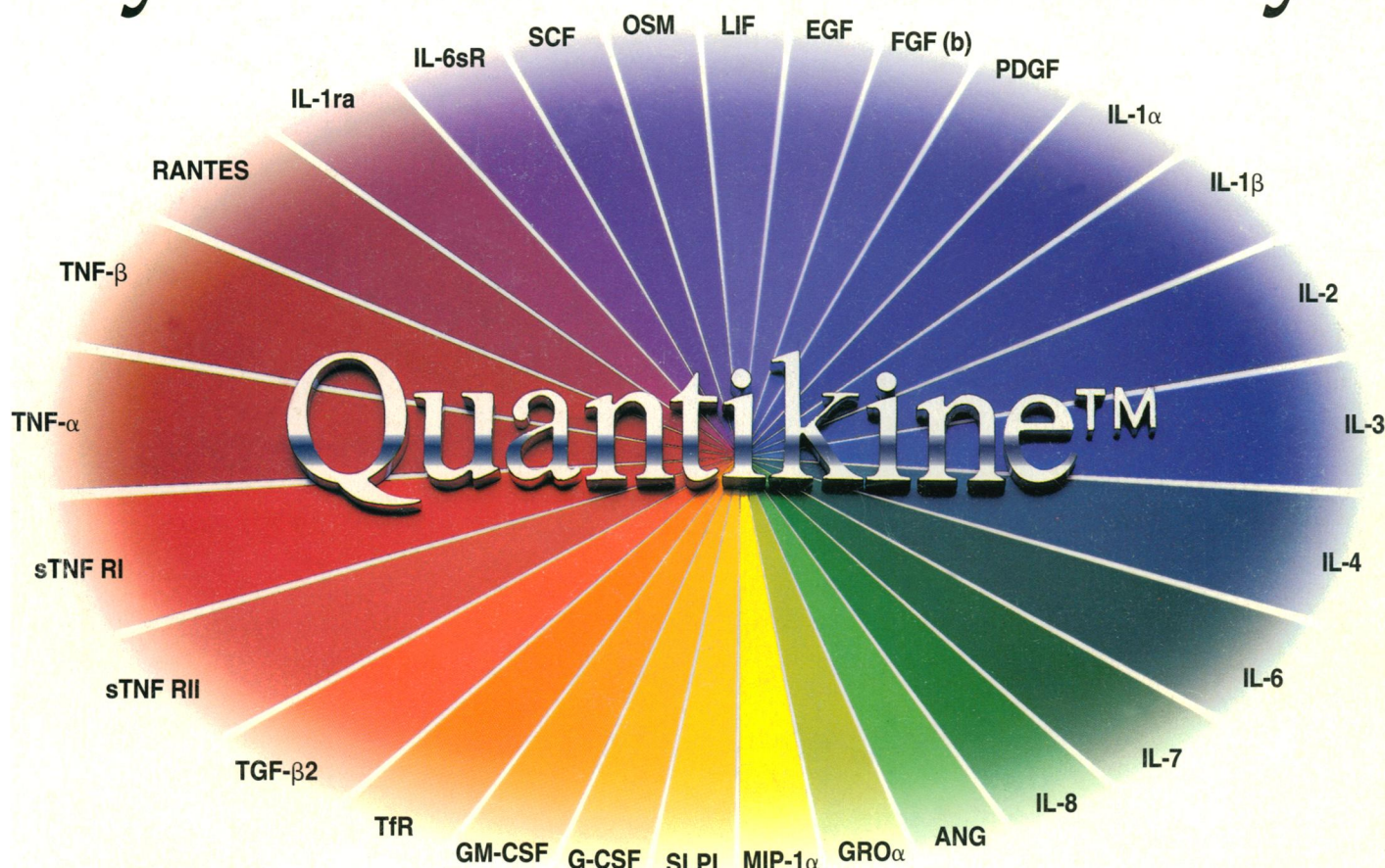
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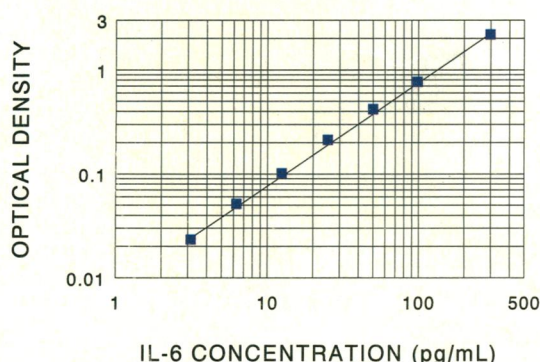


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