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**THE AAAS
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**HILLIARD RODERICK
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The AAAS Program on Science and International

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A prize of \$5,000 plus a commemorative medal will be awarded at the 1996 AAAS Annual Meeting. Travel expenses to the meeting will be paid. *Deadline for submission of materials is 1 August 1995.*

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To submit a nomination, please provide:

- ❖ Your name, address, and phone number
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- ❖ Two letters of support
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For more information about the Hilliard Roderick Prize, contact the AAAS Program on Science and International Security at 1333 H Street, NW, Washington, DC 20005; or 202/326-6490; 202/371-0970 (Fax); or PSIS@AAAS.ORG (e-mail).



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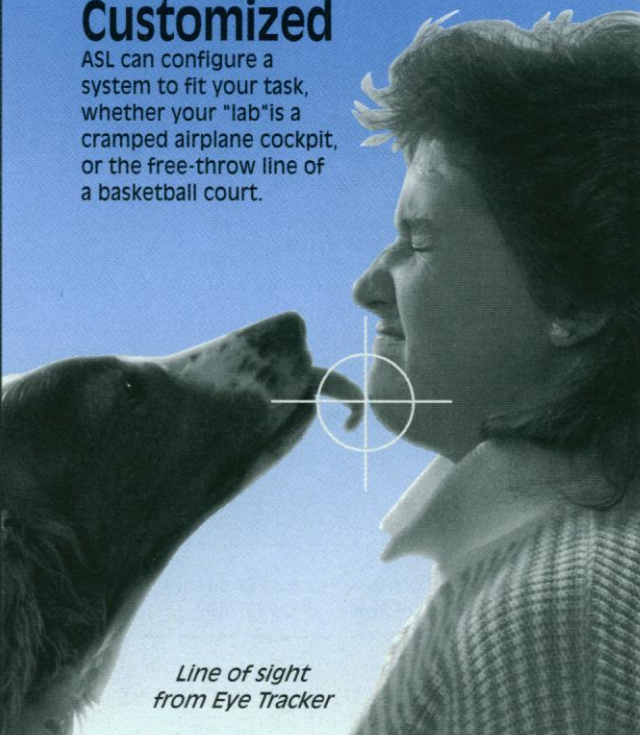
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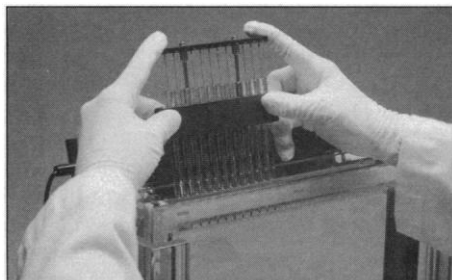


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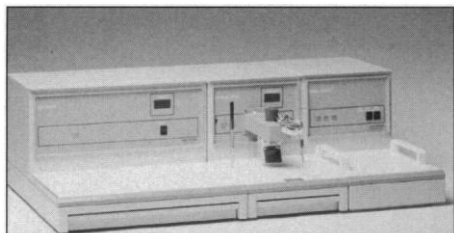
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close observation of the sample. The console includes a heating plate with four force-warming holes. Temperature range is $+20^{\circ}$ to $+70^{\circ}\text{C}$. The Thermal Console includes a processor chamber for storing cassettes and specimen infiltration. All surfaces are either nylon or Teflon. **Curtin Matheson Scientific. Circle 143.**

Growth Medium

TB Dry is a high nutrient medium designed to maximize yields of vector recombinant plasmid and cosmid DNA. All components are included in a single dry powder. There is no need to autoclave separate solutions to produce it. **Mo Bio Laboratories. Circle 144.**

Literature

Biotechnology Brochure offers a comprehensive review of J.T. Baker's capabilities to assist biotechnology companies in the manufacture of therapeutic products. Products covered include pyrogen-tested salts, ultrapure bioreagents, biochromatography media, and high purity solvents. **J.T. Baker. Circle 145.**

BioSolutions is a publication with articles on applications of membrane filtration products. The latest issue features a lead article on rapid protein recovery from polyacrylamide gels using a centrifugal device and a microporous separator. **Amicon. Circle 146.**

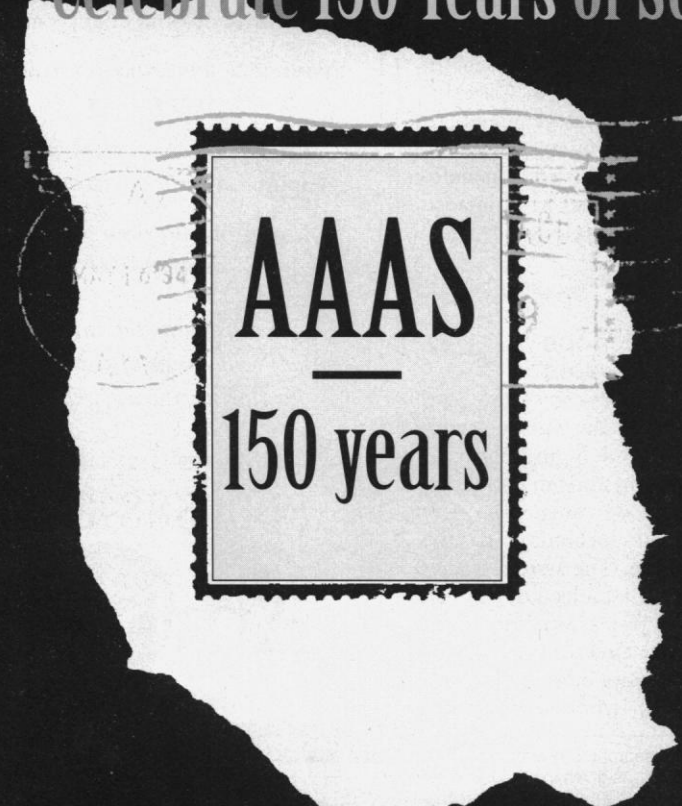
Lab Catalog 1995 is a 38-page introduction to a line of balances, moisture analyzers, automatic titrators, density meters, thermal analyzers, and other instruments. **Mettler Toledo. Circle 147.**

Purifier Class II Safety Cabinets and Clean Benches describes a line of these products. **Labconco. Circle 148.**

FluorImager SI: Quantitative Fluorescent Imaging for Gels, Blots, TLC, and Microplates presents information on fluorescent sample preparation, FluorImager SI system operation and performance, reagent kits, and quantitative fluorescent image analysis. **Molecular Dynamics. Circle 149.**

Drug Development and Formulations CD-ROM contains data updated monthly from patents from seven major countries and from more than 1200 international conferences and journals. **Derwent. Circle 150.**

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In 1998, the American Association for the Advancement of Science (AAAS) will celebrate the 150th anniversary of its founding. A commemorative postage stamp would be a fitting tribute to the Association's historic efforts to promote the progress of science and engineering in the service of humankind.

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CONDITIONS: The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

ASSISTANT PROFESSOR Department of Biosystems and Agricultural Engineering University of Minnesota

Applications are being accepted for an **ASSISTANT PROFESSOR** (12-month appointment, tenure-track) to teach courses in biosystems engineering and to develop a strong research program emphasizing improved utilization of agricultural and biological materials. Applicants must have a Ph.D. by date of appointment in agricultural, biological, chemical, or related engineering field and education or experience in biology, biosystems, or bioprocessing. Send letter of application, including curriculum vitae; a one-page summary of career goals in the context of the position; college transcripts; and names, addresses, and telephone numbers of three professional references by August 15, 1995, to: Dr. Kevin Janni, Search Committee Chair, Department of Biosystems and Agricultural Engineering, University of Minnesota, 1390 Eckles Avenue, St. Paul, MN 55108. Telephone: 612-625-3108; FAX: 612-624-3005.

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

ASSISTANT PROFESSOR GERIATRICS AND GERONTOLOGY UNIVERSITY OF MICHIGAN

The Division of Geriatric Medicine is seeking applications for a **TENURE-TRACK FACULTY** position from researchers with interests in the genetics, cell biology, or molecular biology of aging and geriatric disease. The successful candidate will be expected to set up an independent, extramurally funded research program and to interact with other faculty researchers on projects of mutual interest. Opportunities for participation in the clinical programs of the Division of Geriatric Medicine are available for physician scientists. Minimum qualifications include an M.D. or Ph.D. degree and evidence of highly successful postdoctoral research in a relevant discipline. Excellent new space and start-up package. Send letter of application, curriculum vitae, publication list, summary of research plans, and names of three or more referees to: Faculty Search, University of Michigan Geriatrics Center, 300 North Ingalls Building, Box 0405, Ann Arbor, MI 48109-0405. An Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGY Assistant Professor (Tenure-Track)

The Medical College of Ohio invites applications for a **TENURE-TRACK POSITION** in the Department of Microbiology. Candidates must have a doctoral degree and postdoctoral research experience. Primary research interests should involve molecular aspects of pathogenesis, with emphasis on host-pathogen interactions. Teaching responsibilities include participation in a microbiology course for medical students and development of a graduate level course in molecular pathogenesis. The successful candidate is expected to develop an independent research program based on extramural support. Start-up funds and a state-supported salary are available. A curriculum vitae, future research plans, and three letters of recommendation should be sent to: **Chairman, Department of Microbiology, Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43699.** Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION NEUROSURGERY

The Department of Neurosurgery at Hennepin County Medical Center invites applications for a faculty position, with a joint appointment (**ASSISTANT PROFESSOR**, non-tenure) in the Department of Neurosurgery at the University of Minnesota. Position requires postdoctoral neuroscience training and potential to establish an independent, externally funded research program focused on neurotrauma. Research interests should include neurotransmitter alterations (microdialysis), mechanisms of secondary damage, and/or development of pharmacotherapies following traumatic brain injury. Send letter of interest, curriculum vitae, and three letters of recommendation to: Neurosurgery Search Committee, Minneapolis Medical Research Foundation, 914 South 8th Street, Minneapolis, MN 55404. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF VIRGINIA DEPARTMENT OF MICROBIOLOGY Viral Pathogenesis/Gene Regulation

The Department of Microbiology, University of Virginia is seeking an outstanding scientist for the tenure-track position of **ASSISTANT** or **ASSOCIATE PROFESSOR**. The successful candidate is expected to develop a high quality research program in viral pathogenesis, the molecular analysis of viral and/or eukaryotic gene expression, or related areas. Of particular interest to the Department are candidates whose research areas focus on the regulation of gene expression by latent and/or oncogenic viruses, expression of cell cycle regulated genes and mitogen/hormone regulated gene expression. The Department of Microbiology offers an outstanding environment for research on molecular genetics, immunology, virology and cellular signaling as well as outstanding opportunities for graduate and postgraduate training. Applicants should submit a curriculum vitae, a concise statement of research interests and selected reprints. These and three letters of reference should be sent to: **Chair, Microbiology Search Committee, Box 441, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.** Applications should be received by September 1, 1995. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority scientists.*

FACULTY POSITION Experimental Gravitational Physics

The Department of Physics at MIT is seeking candidates for a faculty position in experimental gravitational physics. MIT is collaborating with Cal Tech in developing the Laser Interferometer Gravitational Wave Observatory (LIGO). This will be a national facility dedicated to the detection of gravitational waves from astrophysical sources and will provide unique research opportunities in physics and astrophysics. The successful candidate will engage in undergraduate and graduate education and will establish an independent research program in experimental gravitational physics. He/she may also participate in the development of LIGO. Appointment at the **ASSISTANT PROFESSOR** level or, for an exceptionally qualified candidate, at the senior level will be considered. Given the developing nature of this field, candidates with varied experimental backgrounds will be considered. Applications are requested before October 1, 1995. Applicants should send a curriculum vitae, a brief description of current research, and three letters of recommendation to: **Professor Saul Rappaport, Center for Space Research, Room 37-551, MIT, Cambridge, MA 02139-4307.** MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a non-smoking environment.

FACULTY POSITIONS: The Department of Biochemistry and Molecular Biology in the College of Medicine solicits applications for two **ASSISTANT PROFESSORS** (one on a tenure-track/12 month appointment and one on a research track/12 month appointment). Candidates should have an M.D. or Ph.D. degree and be engaged in productive research in any area of Biochemistry or Molecular Biology. The successful candidate will join a rapidly expanding and active department and will occupy laboratories in the new Biomedical Research Building. The new faculty member will be expected to develop an extramurally funded research program and may participate in the departmental medical or graduate teaching programs. Applicants should send a curriculum vitae, a brief description of proposed research, and the names of three references to: **Search Committee, Department of Biochemistry & Molecular Biology, Slot 516, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205,** by August 1, 1995. *University of Arkansas for Medical Sciences is an Equal Opportunity/Affirmative Action Employer.*

RADIATION ONCOLOGY PHYSICIST. Responsible for calibrating and monitoring radiation therapy equipment. Verifies proper calculations and weekly chart checks. Orders, prepares and handles radioactive isotopes for brachytherapy/HDR procedures and therapeutic doses of liquid radionuclides. Plans, directs and supervises activities of physics staff. Required: Ph.D. in Physics and three years of experience in job offered or as medical physicist; California license as Radiation Physicist; ABR certification. \$110,240 per year. Interview/job site: Fresno, California. Send ad and résumé to: **Job No. JA36245, P.O. Box 269065, Sacramento, CA 95826-9065.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Department of Physiology and Biophysics Dalhousie University

The Department of Physiology and Biophysics is seeking a neurophysiologist with interests in the field of electrophysiology. Applicants should have a strong background in cellular neurophysiology and membrane biophysics.

This is a tenure-track appointment but the successful applicant will be required to apply for salary support from appropriate granting agencies, including the Medical Research Council of Canada. The level of appointment and salary will depend on previous experience.

Send a curriculum vitae, statement of research interests, and the names of three referees to: **Dr. A. S. French, Head, Department of Physiology and Biophysics, Dalhousie University, Sir Charles Tupper Medical Building, Halifax, Nova Scotia B3H 4H7 Canada. FAX: 902-494-1685.** Closing date for applications: July 31, 1995. *Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, racial minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.*

ASSISTANT PROFESSOR ECOLOGY

The Biology Department of Gonzaga University invites applications for a **TENURE-TRACK POSITION** in ecology to begin January 1996. Gonzaga is a competitive, comprehensive Jesuit University in the inland Northwest. Applicants should have a Ph.D. in biology and postdoctoral experience. They should be broadly trained and committed to teaching in a traditional liberal arts setting. Development of a research program suitable for undergraduate involvement is required and the successful candidate will be expected to compete for extramural funding. Primary teaching responsibility will be in the area of ecology and participation in introductory courses for both majors and non-majors is expected. Familiarity with computer applications in teaching labs would be an asset. Review of applications begins 30 June 1995. Send curriculum vitae, statement of research and teaching interests, recent reprints, and three letters of recommendation to: **Dr. Peter G. Pauw, Biology Department, Gonzaga University, Spokane, WA 99258.** For additional information, Email: pauw@gonzaga.edu.

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HEAD, ANATOMY & CELL BIOLOGY QUEEN'S UNIVERSITY KINGSTON, ONTARIO, CANADA

Applications and nominations are invited for the position of **HEAD, Department of Anatomy and Cell Biology** at Queen's University. Applicants will have achieved international recognition in research and scholarship, have proven skills in academic leadership and management, and a commitment to graduate and medical education and to the development of students, faculty and staff.

Applicants should forward a curriculum vitae, description of research interests and the names of three referees to: **Dr. R. F. Maudsley, Vice-Dean, Faculty of Medicine, Queen's University, Kingston, Ontario K7L 3N6 Canada.**

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Queen's University has an employment equity program, welcomes diversity in the workplace and encourages applications from all qualified candidates, including women, aboriginal peoples, people with disabilities and visible minorities.

GUEST PROFESSORSHIP-NANOOPTICS

The Technical University Chemnitz-Zwickau (TUCZ), Germany, offers a two-year **FACULTY POSITION** at the Institute of Physics. This position is part of the innovation college "Methods and Material Systems for the Nanometer-Size Range" (supported by Deutsche Forschungsgemeinschaft). Individuals with significant experience and interest in establishing the field of nanooptics at TUCZ are encouraged to apply. For more information see <http://www.tu-chemnitz.de/~falke/nanoopt.html> or contact: Prof. Michael Hietschold, telephone: +49 371 531 3203; FAX: +49 371 531 3077.

POSITIONS OPEN

FACULTY POSITIONS VASCULAR BIOLOGY

The Department of Medical Physiology and Microcirculation Research Institute of the Texas A&M University Health Science Center invites applications for tenure-track **ASSISTANT PROFESSOR** positions. Individuals with backgrounds in molecular and cell biology of cardiovascular tissue are encouraged to apply. Preference will be given to candidates with demonstrated expertise in the molecular basis of vascular function. The successful candidate is expected to develop a nationally recognized laboratory in his/her field of research, and to contribute to the medical and graduate education missions of the department. An intercollegiate group of cardiovascular scientists offers substantial opportunities for collaboration at molecular, cellular, organ and system levels of integration. The department is located on the main campus of one of the leading research universities in the South and Southwest. Molecular and cell biology is a major university-wide emphasis area. Applicants should send a curriculum vitae, names of three references and a statement of career goals to: **Dr. Harris J. Granger, Professor and Head, Department of Medical Physiology, Texas A&M University Health Science Center, College Station, TX 77843-1114.** *Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.*

RESEARCH FACULTY MAYO CLINIC SCOTTSDALE

A faculty position is available starting in 1996 at the **ASSOCIATE PROFESSOR** or higher level. Research programs will address the molecular basis of human disease. The new 75,000 square foot S.C. Johnson Medical Research Building houses laboratories and core facilities, including an 8,000 square foot animal facility devoted primarily to transgenic and gene inactivation operations. Mayo Scottsdale is fully integrated with and electronically coupled to Mayo campuses in Rochester, Minnesota and Jacksonville, Florida. Appointments are available in the appropriate department of the Mayo Graduate School of Medicine. Scottsdale faculty have active research programs in extracellular matrix, mucin molecular biology, myeloid cell differentiation, eosinophil-mediated inflammation, homeobox genes in nervous system development and the molecular pathophysiology of cystic fibrosis. Generous start-up and space allotments are provided. A strong record of extramural support is required. Please forward curriculum vitae, statement of research interest and names of three references to: **Faculty Search, S.C. Johnson Medical Research Center, Mayo Clinic Scottsdale, 13400 East Shea Boulevard, Scottsdale, AZ 85259.** *Mayo Clinic Scottsdale is an Affirmative Action Employer and Educator. It promotes cultural diversity in its workforce.*

RESEARCH ASSOCIATE position available immediately to study molecular aspects of cell cycle regulation in apicomplexan parasites. Ph.D. in Cell/Molecular Biology. Background in molecular parasitology is desirable. Research experience in recombinant DNA techniques essential. Attractive research environment and benefits package. Salary is commensurate with experience. Send curriculum vitae, statement of professional/research goals, and names, titles, addresses, and telephone numbers of three referees to: **Ms. Tyra Burman, Position GV-2, The Center of Marine Biotechnology, University of Maryland Biotechnology Institute, 701 East Pratt Street, Baltimore, MD 21202.** Application deadline: July 15, 1995. *Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE position available immediately to study molecular and biochemical aspects of protein-carbohydrate interactions. Ph.D. in Biochemistry/Molecular Biology. Background in molecular recognition is desirable. Research experience in recombinant DNA techniques essential. Attractive research environment and benefits package. Salary is commensurate with experience. Send curriculum vitae, statement of professional/research goals, and names, titles, addresses, and telephone numbers of three referees to: **Ms. Tyra Burman, Position GV-1, The Center of Marine Biotechnology, University of Maryland Biotechnology Institute, 701 East Pratt Street, Baltimore, MD 21202.** Application deadline: July 15, 1995. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DUNBAR SCHOLAR IN PSYCHIATRY Northwestern University Medical School

The Department of Psychiatry at Northwestern University Medical School is recruiting for a full-time tenure-eligible endowed faculty position (Dunbar Scholar) at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level whose interests are in basic research related to the neurobiological mechanisms of Depressive Disorders. This position is affiliated with the Neuroscience Institute at Northwestern. A joint appointment in the appropriate basic science department is anticipated. The specific content of the research interests considered appropriate for this position can vary but must be basic in nature and related to Depressive Disorders. Applications will be accepted from Ph.D.'s or M.D.'s. Starting date is flexible. Salary will be determined based on rank and experience. Send curriculum vitae and letter of intent describing previous work and its relevance to Depressive Disorders by September 1, 1995, to: **William T. McKinney, M.D., Director, Asher Center for the Study & Treatment of Depressive Disorders, Northwestern University Medical School, 303 East Chicago Avenue, Ward 9-176, Chicago, IL 60611.** Telephone: 312-908-9380; FAX: 312-503-0466. *Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL FELLOWSHIP

Available immediately, NIH-funded **POSTDOCTORAL POSITION** to study gene regulation in the developing intestine. Some experience in molecular biology required. Applicants must have doctoral degree and U.S. citizenship or permanent resident status.

Please send a curriculum vitae and names of three references to: **Dr. Richard J. Grand, Chief, Division of Pediatric Gastroenterology and Nutrition, New England Medical Center and Tufts University School of Medicine, 750 Washington Street, Boston, MA 02111.** FAX: 617-636-8388; Email: richard.grand@as.nemc.org. *We are an Equal Opportunity Employer. We support diversity in the workplace.*

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE—Department of Pharmacology. Applications are invited for a position available immediately to study the catalytic components and function of the multicatalytic proteinase complex (Proteasome). Candidates with a Ph.D. degree in Enzymology or Bioorganic Chemistry are preferred. Previous experience is desirable. Please submit a curriculum vitae and references to: **Dr. M. Orłowski, Department of Pharmacology, Box 1215, The Mount Sinai Medical Center, One Gustave L. Levy Place, New York, NY 10029-6574.** *An Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIPS

One or two positions immediately available for motivated individuals for studies of the molecular biology of Alzheimer's disease (see *J Biol Chem*, 269:24000, 1994, and 269:24009, 1994). Experience in molecular biology necessary; protein biochemistry or neurobiology a plus. Send curriculum vitae, references and research statement to: **Dr. James Malter, A4/204-CSC, Department of Pathology, University of Wisconsin Hospital, 600 Highland Avenue, Madison, WI 53792.** FAX: 608-263-1568; Email: JS.Malter@hosp.wisc.edu.

A **POSTDOCTORAL POSITION** is available to work at Clemson University in South Carolina, USA on the magnesium chelatase step of chlorophyll synthesis (*Biochem. J.*, 299:277-284, 1994). Experience in molecular biology and biochemistry is essential. The position starts in October 1995, and a second position may be available in February 1996. Send curriculum vitae, letter describing research experience, names and FAX numbers of three references to: **Jon Weinstein** (on sabbatical leave at), Carlsberg Laboratory, Department of Physiology, Gamle Carlsberg vej 10, DK-2500 Copenhagen Valby, Denmark. FAX: (+45)33274766; Email: ewalker@biobase.dk. *Clemson University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION—Cortical Networks and Learning. Position available immediately to examine the plasticity of motor cortical circuits using slice preparations. Send curriculum vitae with names of three references to: **John P. Donoghue, Ph.D., Department of Neuroscience, Box 1953, Brown University, Providence, RI 02912.** Telephone: 401-863-2701; Email: John_Donoghue@Brown.edu. *Brown University is an Equal Opportunity/Affirmative Action Employer.*

Tenure-Track And Postdoctoral Opportunities.

Listed below are some of the outstanding research training opportunities that are currently available at the National Institutes of Health.

Tenure-Track Position Assistant Professor Equivalent

Molecular Endocrinology
Carolyn Bondy, MD

Position available to develop an independent research program focused on the role of growth factors in gestation, growth or metabolism. Applicants should have expertise in molecular endocrinology and a commitment to training clinical associates in endocrinology fellowship program. Applicants must be US citizens or permanent residents. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Developmental Endocrinology Branch (OE-84), NICHD, Building 10 Room 10N262, 10 CENTER DR MSC 1862, BETHESDA MD 20892-1862.

Postdoctoral Positions

Cell Cycle Checkpoints and Cancer Chemotherapy
Patrick M. O'Connor, PhD

Two positions to study cell cycle checkpoints and their role in cancer therapy. Projects are focused on investigations of G1/S and G2/M checkpoints in cancer and normal cells and pharmacological strategies to exploit checkpoints for cancer treatment. Experience in cell cycle regulation and/or molecular pharmacology is an advantage. Applicants should have less than five years of postdoctoral experience. Laboratory of Molecular Pharmacology (OE-84), NCI, Building 37, Room 5C-19, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

Developmental Genetics of the Mammalian Ovary
Jurrien Dean, MD

Research focuses on molecular biology of gonadogenesis, gene expression during oogenesis, and mechanisms of species-specific fertilization. These studies are carried out in mice and involve a wide range of molecular, cellular, and genetic experimental approaches. Ideal candidates will be trained in current DNA/RNA methodologies and have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-84), NIDDK, Building 6, Room B1-26, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

Molecular and Cell Biology of Vitamin C
Mark E. Levine, MD

Molecular mechanisms of vitamin C transport and dehydroascorbic acid reduction, vitamin C function in immune cells, vitamin C-mediated collagen biosynthesis, and vitamin C pharmacokinetics in healthy humans are being investigated. The goals are to understand vitamin C action at the genomic and cellular levels and to apply this knowledge to determine human requirements. Applicants should have a background in molecular biology, although individuals with experience in cell biology, protein chemistry, or enzymology may be consid-

ered. Candidates must have less than five years of postdoctoral experience. Laboratory of Cell Biology and Genetics (OE-84), NIDDK, Building 8, Room 403, 8 CENTER DR MSC 0850, BETHESDA MD 20892-0850.

Molecular Biology of Cardiac Diseases

Neal Epstein, MD and Lamah Fananapazir, MD

Studies of the molecular biology and pathophysiology of hypertrophic cardiomyopathy are being integrated with the clinical evaluation and management of patients with the disease. Areas of investigation include mapping of other loci, expression of cloned mutant genes, and the study of the molecular correlates of therapeutic interventions and of variable disease expression. A strong background in molecular biology and less than five years of postdoctoral experience are required. Cardiology Branch (OE-84), NHLBI, Building 10, Room 7B15, 10 CENTER DR MSC 1650, BETHESDA MD 20892-1650.

Papillomavirus Replication and Gene Regulation
Alison A. McBride, PhD

The mechanisms by which the papillomavirus E1 and E2 proteins regulate viral DNA replication and transcription are being investigated. Candidates should have experience in molecular biology, biochemistry or cell biology and have less than five years of postdoctoral experience. Laboratory of Viral Diseases (OE-84), NIAID, Building 4, Room 137, 4 CENTER DR MSC 0455, BETHESDA MD 20892-0455.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7,Even,1". When connected to NIH, type in "vt100" for terminal emulation, "F5E" for initials, and "AJL1" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (<http://www.nih.gov>). When connected, select *Research Opportunities at the NIH*. If you would like to request a catalog or have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-402-1603, Fax 301-402-0483.

To Apply

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



National Institutes Of Health

Office of Education

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE Signal Transduction and Genetic Regulation of Apoptosis

POSTDOCTORAL POSITION is available at the Massey Cancer Center to participate in studies examining molecular, cell cycle, and signal transduction events regulating drug-induced apoptosis in human leukemia cells. Prior experience/interest in molecular and cell biology is necessary. This position is supported by a Cancer Biology Training Grant from the NIH; the starting date is flexible. U.S. citizenship or permanent residence status is required. Send letter describing research interests and experience, curriculum vitae, and the names of three references to: **Dr. Steven Grant, Departments of Medicine and Pharmacology, Medical College of Virginia, MCV Station Box 230, Richmond, VA 23298. Medical College of Virginia/Virginia Commonwealth University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL SCIENTIST RESEARCH ASSOCIATE

IIT Research Institute, an independent research and development organization, has an immediate opening for a Ph.D. with zero to five years of experience to investigate the influence of chemical and physical agents on gene expression in human mammary epithelial cells. Hands-on experience in mammalian cell culture and molecular biology techniques is essential. Interest or experience in carcinogenesis and/or molecular toxicology desirable. Development of an independent research program is encouraged.

Please forward résumé with salary history to: **Susan L. Pigott, IIT Research Institute, 10 West 35th Street, Chicago, IL 60616. An Equal Opportunity/Affirmative Action Employer/Minority/Female/Disabled/Veteran.**

UNIVERSITY OF TEXAS MEDICAL BRANCH GALVESTON

A **POSTDOCTORAL POSITION** available immediately in Experimental Pathology Division will investigate the biochemical and molecular mechanisms of vascular injury by toxic substances; established NIH-funded laboratory within strong, collaborative University Toxicology Program. Send curriculum vitae with names and telephone numbers of three references to: **Paul J. Boor, M.D., University of Texas Medical Branch, 301 University Boulevard, Department of Pathology, Galveston, TX 77555-0605. The University of Texas Medical Branch (UTMB) is an Equal Opportunity/Affirmative Action Employer. Minority/Female/Disabled/Veteran. UTMB hires only individuals authorized to work in the United States.**

A **POSTDOCTORAL POSITION** is immediately available to study ion channel gene expression and its regulation in peripheral sensory neurons after nerve injury. The candidate should have an excellent background in molecular biology, and experience or interest in systems neurobiology. Please send curriculum vitae, and names of three references to: **Dr. Gudarz Davar, Molecular Neurobiology of Pain Lab, Anesthesia Research, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-730-2801; Email: gdavar@zeus.bwh.harvard.edu. Brigham and Women's Hospital is an Affirmative Action/Equal Opportunity Employer. We encourage applications from women and minority candidates.**

RESEARCH SPECIALIST II

This position, located in Slater, Iowa involves working in the area of Molecular Genetics for ICI Seeds. Preferences will be given to applicants with a strong background in Molecular Genetics, Biology, or Biochemistry with experience in techniques associated with restriction fragment length polymorphism or polymerase chain reaction. The successful candidate will be expected to work both individually and as part of a team. B.S./M.S. degree in Biology, Genetics, or Agronomy is preferred. This is a full-time salaried position with complete benefits. Compensation will be commensurate with experience and qualifications. Send cover letter and résumé to: **Rene McCargar, Employee Relations Specialist, ICI Seeds, 6945 Vista Drive, West Des Moines, IA 50266. Equal Opportunity Employer. Minority/Female/Disabled/Veteran.**

POSITIONS OPEN

POSTDOCTORAL POSITION, NIH-funded, is available immediately to study cellular and molecular regulation of neuronal generation and differentiation, using prenatal, adult and transgenic rodent cultures that allow both neurogenesis and maturation of olfactory sensory neurons. Contact: **Dr. S. Pixley, Department of Cell Biology, University of Cincinnati, P.O. Box 670521, Cincinnati, OH 45267-0521. Telephone: 513-558-6086; FAX: 513-558-4454. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to work on an NIH-funded project involving gene expression in gastrointestinal inflammation. Molecular biological experience required; immunology background desirable. Please send curriculum vitae and names of three references to: **Dr. Keith Wilson, Department of Medicine, University of Maryland Medical System, N3W62, 22 South Greene Street, Baltimore, MD 21201. FAX: 410-605-7914; Email: kwilson.umab.net.ab.umd.edu.**

MOLECULAR TUMOR BIOLOGY

A **POSTDOCTORAL POSITION** is available to study the signal transduction mechanisms in cancer cells. Recent Ph.D. with experience in molecular biology and biochemistry is desirable. Please send curriculum vitae and names of three references to: **Usha Kasid, Ph.D., Associate Professor, Room E208, The Research Building, Georgetown University Medical Center, 3970 Reservoir Road, NW, Washington, DC 20007. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION now available to investigate chaperone-mediated folding and subsequent assembly of mitochondrial oligomeric proteins (Wynn et al. *Biochemistry*, 33:8962-8968, 1994). A recent Ph.D. recipient with strong background in protein chemistry and methods including physical measurements is sought. Send curriculum vitae with names and telephone numbers of three references to: **Dr. David T. Chuang, Department of Biochemistry, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9038. Telephone: 214-648-2457; FAX: 214-648-8856. An Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is available to investigate the structure/function relationship of recombinant GABA-activated chloride channels using molecular biological and electrophysiological techniques (see *Nature*, 366: 565). Experience in one of the above disciplines is desirable. Send résumé and list of three references to: **Dr. David S. Weiss, Neurobiology Research Center, 1719 Sixth Avenue South, University of Alabama at Birmingham, Birmingham, AL 35294-0021. The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.**

Two **POSTDOCTORAL POSITIONS**, available immediately, to study an adhesive multicomponent system expressed by an enterobacterial pathogen. Requires experience in 1) molecular genetics (bacterial genetics, recombinant DNA, mutagenesis, PCR) or 2) glyco-protein/lipid biochemistry and use of antibody probes. Send curriculum vitae, description of previous experience and references to: **Dr. Dieter M. Schifferli, University of Pennsylvania, Department of Pathobiology, 3800 Spruce Street, Philadelphia, PA 19104-6049. FAX: 215-898-7887. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

The Gene Therapy Program at the City of Hope National Medical Center invites applications for **POSTDOCTORAL POSITIONS** in NIH-funded programs focusing upon: i) gene transfer into hematopoietic cells; ii) the basic and clinical aspects of gene therapy for cancer and viral infections; and iii) development of adeno-associated virus (AAV) vectors. A Ph.D. and/or M.D. degree is required. Please send curriculum vitae, statement of research interests, and the names, addresses and telephone numbers of three references to: **City of Hope, Human Resources, Attn: KW, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 818-301-8448. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available July 1, 1995, for two years, to study molecular mechanisms of inflammatory response, including regulation of inducible nitric oxide synthase. Research funded by NIH training grant, including collaborations with Department of Surgery. Applicant must have Ph.D. or M.D., with experience in molecular biology highly preferred, and be a U.S. citizen or permanent resident. Send curriculum vitae and list of three references to: **Dr. Sidney Morris, Department of Molecular Genetics and Biochemistry, W1255 Biomedical Science Tower, University of Pittsburgh, Pittsburgh, PA 15261. FAX: 412-624-1401. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to study glutamate-receptor ion channels with patch-clamp techniques. The current focus of the work is on determining the properties of recombinant channels expressed transiently or stably in HEK 293 cells. We are also interested in developmental changes in the properties of native channels. Send curriculum vitae and the names of three references to: **Dr. James Howe, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8066.**

POSTDOCTORAL POSITIONS available immediately. Experience in biochemical and molecular biological techniques to work on glycoprotein hormones and membrane receptors. Experience in protein and/or carbohydrate techniques desirable. Send curriculum vitae to: **Dr. O. P. Bahl, Department of Biological Sciences, State University of New York at Buffalo, 347 Cooke Hall, Buffalo, NY 14260. SUNY is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP POSITIONS in Cell and Molecular Physiology and Biology at Yale University School of Medicine. M.D.'s with prior training in Pediatrics/Internal Medicine or Ph.D.'s. Spectrum of basic science disciplines including Molecular and Cellular Neurobiology, Epithelial Cell Biology and Immunobiology with 21 active faculty and labs. Special interests include mechanisms of cell death. Must be U.S. citizens/permanent residents. Please send curriculum vitae to: **Gabriel G. Haddad, M.D., Department of Pediatrics, Yale University School of Medicine, 333 Cedar Street, FMP 506, New Haven, CT 06520. Yale University is an Equal Opportunity/Affirmative Action Employer.**

The Department of Pathology is seeking senior **INVESTIGATORS** with established research programs. Areas of special interest are signal transduction, cell-cell interaction and mammalian development. Substantial packages will be provided to start up and sustain the laboratories of successful candidates. Research space will be in the new Golding building, scheduled for completion in the spring of 1996. Interested individuals should send a curriculum vitae, names of three references and a record of grant funding to: **Dr. Michael B. Prystowsky, Chairman, Department of Pathology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.**

MICROBIOLOGY POSITION available immediately to study control of zebra mussels with microbial toxins. Grant-funded, one-year position. Minimum of M.S. in a biological science and experience in microbiology. Publications, grantwriting, and histology experience a plus. Salary starts at \$24,000 and is commensurate with experience. Submit curriculum vitae and three references to: **Dr. Daniel P. Molloy, Biological Survey, New York State Museum, Field Research Laboratory, RD 1-Box 151, Cambridge, NY 12816. Equal Opportunity Employer.**

IN-HOUSE EDITOR Chemistry & Biology

Chemistry & Biology, the newest primary journal from Current Biology Ltd, seeks a second In-house **EDITOR** to join the friendly, enthusiastic team in our San Francisco office. Essential requirements: broad interest in science, preferably with a background in chemistry, biochemistry or molecular biology (Ph.D. preferred); excellent command of the English language; ability to communicate complicated concepts to a wide audience; organization and ability to work to tight deadlines while maintaining a sense of humor. To apply, write immediately to: **Rebecca Ward, Current Biology Ltd, 251 Hugo Street, San Francisco, CA 94122-2603. FAX: 415-566-4594.**

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POSTDOCTORAL FELLOWS

Our Pharmaceutical Sciences Group has immediate positions in the following areas for talented individuals with excellent communication and interpersonal skills plus a commitment to teamwork.

Formulation Research and Drug Delivery

You will be part of a professional team screening drug candidates using *in vitro/in vivo* techniques to assess drug permeability and identify mechanisms associated with drug absorption and biological membrane transport. To qualify, you will need to be an independent self-starter with a PhD in Pharmaceutical Sciences, Biophysics, Biochemistry, Pharmacology or a related discipline and 0-2 years of experience with drug permeability studies. Background with Caco-2 cells a plus.

Polymeric Drug Delivery Systems

You will conduct research in the area of polymeric drug delivery systems for a small molecular weight as well as macromolecular protein drugs. To qualify, you will need a PhD in Chemistry, Chemical Engineering, Polymer Science or a related discipline and a strong background in the characterization of polymers as related to transport properties and drug delivery. Experience with bioerodible and biodegradable polymers a plus.

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CATO
RESEARCH

DEAN OF THE GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

University Of Texas Medical Branch At Galveston

The University of Texas Medical Branch (UTMB) at Galveston is seeking to fill the position of Dean of the Graduate School of Biomedical Sciences. The Graduate Dean has the responsibility for the management of graduate education at UTMB. This is done with the assistance of the staff of the Graduate School and through interaction with the Executive Committee of the Graduate School, which includes the elected Directors of the various graduate programs. The Graduate Dean reports to the Vice President for Academic Affairs. The graduate faculty now numbers 267, and the graduate student body includes 124 Masters, 183 Ph.D., and 31 M.D.-Ph.D. candidates.

Graduate degrees are offered at both the Masters and Ph.D. levels. In addition, there is an active M.D.-Ph.D. program. The three graduate programs at the Masters level are in Nursing, Allied Health and Medical Science. The nine Ph.D. programs are in Cell Biology, Cellular Physiology and Molecular Biophysics, Human Biological Chemistry and Genetics, Medical Humanities, Microbiology and Immunology, Neuroscience, Experimental Pathology, Pharmacology and Toxicology, and Preventive Medicine and Community Health. A doctoral program in Nursing has been approved by the University of Texas and is under review by the Texas Coordinating Board for Higher Education.

Applicants should have a Ph.D. degree or an equivalent advanced research degree, a distinguished record in science and a demonstrated ability in administration. They should be qualified for a position as tenured full Professor in one of the Departments at UTMB. Criteria for selection will include a commitment to the development of the careers of the graduate students, advocacy for a variety of types of research, including both basic and clinical research, skill in promoting research collaborations and multidisciplinary programs, a willingness to foster the support of alumni and other potential benefactors of graduate education, and such personal qualities as integrity and vision.

Applicants should send a detailed curriculum vitae and bibliography to Wm. D. Willis, Jr., M.D., Ph.D., Chairman of the Search Committee for Graduate Dean, Department of Anatomy and Neurosciences and Marine Biomedical Institute, UTMB, Galveston, Texas 77555-1069. Fax (409) 772-4687; E Mail WDW@MBIAN.UTMB.EDU.

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FELLOW-TUMOR BIOLOGY

The successful candidate will be responsible for supervising *in vivo* screening and testing for a large preclinical oncology research program. Duties will include supervision of MTD, anti-tumor efficacy and pharmacological analysis of novel anti-tumor agents in nude mouse human tumor xenograft, angiogenesis and metastasis models. Responsibilities will also include development of new *in vivo* models for the study of efficacy and mechanism of action of novel agents.

Candidates should have a Ph.D. with at least 10 years of relevant experience in the areas of *in vivo* tumor biology and pharmacology. Direct and supervisory experience with a wide variety of human tumor xenograft models is required. Candidates should also have significant experience in the area of preclinical drug development. **(Position #3355)**

ASSOCIATE FELLOW-METABOLIC DISEASES

This position requires an *in vivo* physiologist to run a pharmacology laboratory in metabolic disease research. The incumbent will supervise 2-4 scientists and take responsibility for drug discovery, preclinical development and basic research in carbohydrate and lipid metabolism. This will include working with a multidisciplinary team of scientists to profile development compounds, optimize *in vivo* modeling for metabolic diseases and identify new therapeutic targets.

A Ph.D. or equivalent in physiology, endocrinology, pharmacology or a related field and extensive knowledge of carbohydrate and lipid metabolism, and disorders thereof, are required. The chosen candidate must also have extensive experience with *in vivo* experimentation and data interpretation. Good communication skills and demonstration of creative scientific thinking as evidenced by relevant scientific publications are also required. **(Position #3320)**

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Faculty Position

Department of Brain and Cognitive Science
and the Center for Learning and Memory

Candidates are sought for a tenure track faculty position at the level of Assistant Professor. We are particularly interested in individuals who apply molecular, cellular, and genetic approaches to the analysis of the function and development of the nervous system. The position will require a strong research program and a commitment to excellence in education at the undergraduate and graduate levels. There is an opportunity for a joint appointment in the Department of Biology.

Applicants should submit a brief cover letter stating research and teaching interests, a curriculum vitae, and three letters of recommendation. Representative reprints may be included. Send applications to:
Chair, Neurobiology Search Committee, Dept. of Brain and Cognitive Sciences, E25-406, MIT, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DIRECTOR Molecular Diagnosis

The Department of Pathology and Laboratory Medicine at the University of Pennsylvania invites applications for a clinician-educator track position, at the Assistant/Associate Professor level, as Director of the Molecular Diagnosis Section in the Division of Laboratory Medicine beginning no later than July 1, 1996. The candidate must hold M.D. and/or Ph.D. degrees and preferably be board eligible or board certified in Clinical Pathology, Anatomic Pathology, Pediatrics or Internal Medicine. The successful applicant will have a background in molecular biology and will direct and expand a broad, active program with current strengths in the genetic diagnosis of cystic fibrosis and neurological disorders, and in the molecular diagnosis of hematological neoplasia. The applicant will also be expected to participate in the development of a clinical research program in either molecular oncology or human genetics. The environment for collaborative research within the Department and at the University of Pennsylvania is outstanding, including the presence of the Human Genome Center and the Institute for Human Gene Therapy. Curriculum vitae, a statement describing previous experience, and the names of three references should be submitted by September 1, 1995 to: Dr. Steven Spitalnik, Chairman of the Search Committee, Department of Pathology and Laboratory Medicine, University of Pennsylvania, 220 John Morgan Bldg., Philadelphia, PA 19104-6082.



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



TENURE-TRACK POSITION IN OPHTHALMIC RESEARCH

University of Missouri
College of Veterinary Medicine

The University of Missouri College of Veterinary Medicine invites applications for a full-time, tenure-track position at either the assistant or associate professor level with major responsibilities in ophthalmic research.

The candidate will be expected to develop, in collaboration with existing faculty, an original research program in comparative ophthalmology. Qualifications include a D.V.M., M.D., and/or Ph.D., and the ability to develop an independent and extramurally-funded research program. Expertise in immunologic mechanisms and/or infectious ocular diseases is preferred, but individuals with strong research programs in other areas are also encouraged to apply. Depending on the qualifications of the applicant, the position will be assigned to either the Department of Veterinary Pathobiology or the Department of Veterinary Biomedical Sciences of the College of Veterinary Medicine.

Candidates should send a curriculum vitae, a letter describing their research interests, and names of three references to:

Dr. Mark P. Nasiss
Veterinary Medical Teaching Hospital
College of Veterinary Medicine
University of Missouri
379 E. Campus Drive
Columbia, MO 65211

Deadline for applications is August 1, 1995.

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The Department of Microbiology and Molecular Genetics and the Department of Medicine at the University of California, Irvine are jointly seeking applicants for faculty positions at the Assistant or Associate Professor level, depending upon qualifications. As part of our ongoing effort to expand our program in molecular pathogenesis, we are soliciting applicants who have demonstrated superior talent and productivity in the area of molecular mechanisms of microbial pathogenesis. His/her previous work should have been judged by peer review to have been scientifically rigorous and clinically relevant, and he/she should have been successful in obtaining sufficient funds from peer-reviewed grants to support these efforts. The latter can include postdoctoral fellowship support for Assistant Professor candidates.

Candidates must have an M.D./Ph.D. or M.D., and board eligibility in Infectious Diseases is required. The successful candidate will be expected to participate in teaching and research conferences in both departments.

Please send curriculum vitae, summary of research interests and three letters of reference to:

Dr. Rozanne M. Sandri-Goldin
Search Committee Chair

Department of Microbiology and Molecular Genetics
College of Medicine
University of California
Irvine, CA 92717-4025

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Ph.D. scientist in either Computer Science or Molecular Biology with a broad background in Computational Biology. Must have 3-5 years' experience in applied computational biology or bioinformatics and extensive experience in scientific management. You will head a world-class bioinformatics group of 25 to 30 people initially, with considerable growth potential. Reference DB

DIRECTOR OF SEQUENCING OPERATIONS

Experienced manager with strong background in cDNA sequencing and related technologies. Ph.D. scientist or engineer familiar with state-of-the-art robotics preferred. Candidate must demonstrate ability to lead a large group of scientists in a production-oriented, high-throughput environment using strong management and motivation skills. Ref. DSO

GROUP LEADER, SOFTWARE DEVELOPMENT

Experienced manager with background in Computer Science and Programming in mixed UNIX/Mac/PC environment. Preference will be given to those experienced in computational biology and/or databases. Will lead a team of programmers in developing relational biotechnology database interfaces and automated entry, search and retrieval projects. Ref. GSD

DATABASE MANAGER

Experienced manager with strong background in Computer Science and relational databases to be responsible for a large database of genomic information and its linkages to various national and international databases. Will require interaction with and support for in-house scientists in addition to staffing a product development group and its external pharmaceutical industrial customers. Background in biological applications or biotechnology desired. Ref. DM

GROUP LEADER, MOLECULAR ANALYSIS

Ph.D. Computational Biologist with strong background in protein biology and genetics. Will lead a team of scientists involved in query and analysis of large databases of cDNA, genomic sequence and inter-database search and retrieval software. Ref. GMA

SCIENTIST

Ph.D. Molecular Biologist with strong background in cDNA sequencing and genomics and the management skills necessary for facilitation of operational and supervisory issues for the Sequencing group. Ref. SMB

IncYTE offers a premier R&D facility in the foothills of Palo Alto, California, along with competitive salaries, an outstanding benefits package, and significant opportunities for professional growth. Mail/fax your resume to Incyte Pharmaceuticals, Inc., Attn: KRH/Ref. ____, 3330 Hillview Ave., Palo Alto, CA 94304, FAX 415/852-0195. EOE.



I N C Y T E
P H A R M A C E U T I C A L S , I N C .



ASTRA MERCK

At Astra Merck, Inc., we've put our hearts and minds into a new kind of company. We are a customer-focused, technologically-enabled business organization that markets pharmaceutical products and services to identified managed care systems, hospital buying groups and other defined market segments.

REGULATORY PROJECT MANAGER PRECLINICAL

Under the guidance of the Director, Preclinical Evaluation and the Director, Regulatory Operations for Astra Merck, Inc., the Regulatory Project Manager - Preclinical plays a role in new product development by providing timely and critical reviews of GLP preclinical toxicology study reports. These reviews are used to evaluate new product candidates and to identify strengths and weaknesses within a preclinical program. The Regulatory Project Manager also prepares summary documents in support of preclinical IND and NDA submissions to the FDA, and assists Regulatory Affairs staff in responding to AMI and FDA requests concerning Preclinical data. The incumbent works with the Directors to maintain an updated database of preclinical program issues. In addition, the incumbent contributes to the collection, review, writing, editing, and assembly of data/documents for regulatory submissions used to support ongoing clinical programs.

Qualifications include a Ph.D. in Toxicology, Pharmacology or a related discipline and at least two years of relevant, postdoctoral experience in the pharmaceutical industry. The successful candidate will have proven experience in evaluating GLP preclinical toxicology, toxicokinetic and pharmacology studies, and be able to effectively communicate this information to multi-disciplinary teams. An understanding of the regulatory requirements for preclinical studies used in INDs and NDAs is desirable, as is knowledge of the drug development process.

We offer a highly competitive compensation and benefits package. Interested candidates should forward a resume with salary requirements to: **Astra Merck, Inc., Human Resources DB-RPM, 725 Chesterbrook Blvd., Wayne, PA 19087.** We are an equal opportunity/affirmative action employer.

A STAFF SCIENTIST

position for a U.S. citizen is available to study osmotic regulation of gene expression in eukaryotic cells. The candidate should have a Ph.D. and a strong publication record on the physiology of volume regulatory mechanisms. The position also requires more than 5 years post-doctoral experience in molecular biology techniques including: cDNA and genomic cloning, sequencing, RNA and PCR technologies, and reporter gene expression systems.

Qualified candidates should send curriculum vitae and names and addresses of three references to:

**Dr. Arlyn Garcia-Perez
Laboratory of Kidney &
Electrolyte Metabolism
NHLBI**

**National Institutes of Health
Building 10, Room 6N307
10 CENTER DR MSC 1598
Bethesda MD 20892-1598**

Phone: 301-496-1559

Fax: 301-402-1443

*Applications must be received by
July 2, 1995*

NIH is an Equal Opportunity Employer

SENIOR CELL BIOLOGIST

PRIZM Pharmaceuticals, Inc., is a private company engaged in the development of therapeutic products based on the regulation of growth factors and their receptors.

The scientist we seek must be prepared with a strong scientific background in oncology, growth factors, or cell signaling to apply significant expertise in cell biology to drug discovery and mechanism-based questions. The successful candidate will lead a group charged with designing and implementing microplate-based assays to support discovery and optimization of lead therapeutic candidates, in addition to investigating the cellular mechanism of action of molecules aimed at diverse molecular targets. Qualified candidates should have 8 to 10 years of postdoctoral experience. Pharmaceutical or biotechnology experience and additional expertise in receptor/ligand interactions and high-throughput screening are preferred.

Please send your c.v. to: PRIZM Pharmaceuticals, Inc., Human Resources, 11035 Roselle Street, San Diego, CA 92121, FAX 619/625-0050. An equal opportunity employer.



P R I Z M
PHARMACEUTICALS

HERPETOLOGIST

A 12 month/year, tenure track, Assistant Professorship, jointly appointed with the College of Agriculture and Life Sciences and the Texas Agricultural Experiment Station, to begin January 1996, or later. Ph.D. required to teach undergraduate and graduate courses in herpetology, advise students, develop a research program and serve as Curator or Herpetology for the Texas Cooperative Wildlife Collections. Letters of Application, including teaching and research goals; curriculum vitae and names of three references will be accepted by: **Dr. John D. McEachran, Search Committee Chair, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX 77843-2258, Phone: (409) 845-5777 by September 15, 1995, or until position is filled.**

CAESAR KLEBERG CHAIR IN WILDLIFE ECOLOGY

A 12-month/year, tenurable position, jointly appointed with the College of Agriculture and Life Sciences and the Texas Agricultural Experiment Station, as Professor and Caesar Kleberg Chair in Wildlife Ecology beginning January 1996, or later. Requirements include a Ph.D., 10 years post-doctoral experience, an appropriate publication and grantsmanship record, teaching experience, and a strong commitment to an academic program integrating theoretical and applied aspects of ecology, conservation, and management. Letters of application, curriculum vitae, statements of teaching philosophy and research interests, and the names of three references will be accepted by: **Dr. Nova J. Silvy, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX 77843-2258, Phone (409) 845-0598, by 1 October 1995, or until position is filled.**

Texas A&M University is an affirmative action/ equal opportunity employer and welcomes applications from women and minority candidates.

LEHIGH UNIVERSITY

HOWARD HUGHES UNDERGRADUATE PROGRAM LECTURER

A three year position supported by a Howard Hughes Medical Institute Grant to Lehigh University to develop additional instructional and research opportunities for undergraduates in the biomedical sciences is **available immediately** to provide teaching support for undergraduate laboratories in the biological sciences in cooperation with department faculty. The Howard Hughes lecturer will assist in the design and implementation of new laboratory modules and undergraduate laboratories which support programs in molecular biology, biology, behavioral neuroscience, and biochemistry. Opportunities exist to perform research with undergraduates in these programs and to develop proposals for extramural funding based on these educational initiatives.

Applicants should have a Ph.D. and a keen interest in teaching at the undergraduate level. Preference will be given to individuals with prior instructional experience. Individuals with a background in computer-assisted applications in laboratory instruction are particularly encouraged to apply. Applications from women and underrepresented groups are invited. Forward a CV and the names of three references to:

**Howard Hughes Program
Lecturer Search Committee
c/o Department of Molecular Biology
Lehigh University
B217 Iacocca Hall, 111 Research Drive
Bethlehem, PA 18015**

Lehigh University is an Affirmative Action/ Equal Opportunity Employer.

**AMERICAN MUSEUM OF NATURAL HISTORY
PROGRAM OFFICER
CENTER FOR BIODIVERSITY AND CONSERVATION**

The Center for Biodiversity and Conservation of the American Museum of Natural History (AMNH), seeks a Program Officer with training and experience in conservation biology and biodiversity to complement the extensive research strengths of the Museum in systematics. The Program Officer will build a strong collaborative research program with AMNH curators and external environmental organizations.

Candidates must have the Ph.D. or MS degree in a biodiversity-related science and should have a deep understanding of conservation biology, systematic biology and recognition in research related to these fields. Applicants must have excellent writing and oral communication skills and a demonstrated ability to raise funds for research. Those with interest and experience in integrating science and policy, knowledge of environmental organizations, and leadership of projects involving diverse collaborators are particularly encouraged to apply.

The Program Officer, together with the Center Director and AMNH curators, will plan and coordinate a national and international program of biodiversity research. In addition, the successful candidate will be expected to provide scientific support for and assist in policy and education projects of the Center. Depending on candidate qualifications, a portion of the Program Officer's time may be devoted to research.

The American Museum of Natural History has for 125 years promoted an understanding and appreciation of the natural world. It houses the largest natural history library in the western hemisphere as well as a collection of over 30 million specimens and artifacts. The institution sponsors over 200 curators, scientific support staff, doctoral students, and postdoctoral fellows, most of whom conduct research in biodiversity.

Applications, including a current curriculum vitae, a narrative statement of program interests, salary requirements and the names, phone and fax numbers, addresses and e-mail of three references should be sent to:

**Francesca T. Grifo, Director
Center for Biodiversity and Conservation
American Museum of Natural History
Central Park West at 79th Street
NYC, NY 10024**

Applications must be received by July 20, 1995.

**ASSOCIATE DIRECTOR BIOMEDICAL TECHNOLOGY
NATIONAL CENTER FOR RESEARCH RESOURCES
NATIONAL INSTITUTES OF HEALTH**

The National Center for Research Resources (NCRR) is seeking applicants for the position of Associate Director Biomedical Technology, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of \$92,900 to \$115,700 per annum (plus 4.23% locality) commensurate with qualifications. Physicians may be eligible for Physicians Comparability Allowance ranging from \$5,000 to \$20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position.

A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

The Associate Director Biomedical Technology, NCRR serves as a trans-NCRR coordinator for biomedical technology, including bioengineering. He/She integrates the research activities of the extramural Biotechnology area with the intramural Biomedical Engineering area and assists in setting priorities for all NCRR biomedical technology and bioengineering activities. Biomedical technology spans resources for molecular and cellular structure and function, knowledge engineering, and information technology in medicine as well as biocomputing and biomedical engineering. Biomedical technology also includes shared instrumentation, marine biotechnology, and generic technology development for biomedical research. Applicants for this Senior Executive Service position must have a Doctor of Medicine or Ph.D. in Biomedical Engineering or one of the health sciences (or equivalent combination of experience and training). Send applications to:

**Ms. Pathenia Wiggins, National Institutes of Health
National Center for Research Resources (NCRR)
9000 Rockville Pike, Building 31, Room 3B38
Bethesda, MD 20892**

For application forms and a copy of the requirements, contact Ms. Wiggins at NCRR on (301) 496-1524. *Deadline for applications is August 14, 1995.*

The NIH is an Equal Opportunity Employer

Visiting Research Scientists

3 Postdoctoral Opportunities

DuPont Ag Products is pleased to announce its new Postdoctoral Fellowship Program. We are seeking highly motivated and creative scientists to work with members of our staff on basic problems of fundamental importance to crop protection discovery research.

The program has three immediate openings:

1) You will join a team in our Insect Biochemistry and Physiology Group involved in an ongoing effort to develop and characterize transgenic cells for use as tools in our insect discovery efforts. We are seeking candidates with a strong background in molecular biology, biochemistry and insect physiology.

2) A position is open for an enzymologist to join a research team working on new approaches for controlling plant diseases. Your efforts will focus on the discovery and characterization of fungal enzymes that may serve as good targets for inhibitor discovery. A solid background in biochemistry will be required to determine catalytic mechanisms and to interact with enzymologists, geneticists, molecular biologists, chemists, and X-ray crystallographers. Molecular biology experience is desirable.

3) You will join our ongoing effort to understand enzyme catalytic mechanisms. This project involves the construction of site-directed mutants and characterization of altered enzymes. Plans for this effort are based on crystallographic studies of enzyme active sites. The successful candidate must have research experience in mechanistic enzymology and an excellent understanding of biochemistry. Knowledge of molecular biology techniques will be an advantage.

The Fellowship Program offers a comprehensive package including a novel and exciting training environment, competitive salaries and medical benefits. We are located in Newark, DE, in close proximity to the University of Delaware, an area that offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the eastern Seaboard. Additional positions are expected to become available in early 1996. To be considered for the above positions, please forward your resume and a list of references to:

**Human Resources
Attn: Postdoctoral Program
P.O. Box 30
Newark, DE 19714-0030**



Agricultural Products

**DUPONT IS AN
EQUAL OPPORTUNITY EMPLOYER**

Research Fellow – Pharmacologist Cardiovascular Biology

Rhône-Poulenc Rorer Research & Development, a world leader in pharmaceutical research, has an opportunity available in the Cardiovascular Biology Department of our Collegeville, Pennsylvania research site.

The successful candidate will design, conduct, and interpret laboratory experiments; supervise other scientists and direct ongoing programs; and develop new ideas for research programs. To qualify, you should have a Ph.D. in Biochemistry, Pharmacology, and up to 7 years experience in an academic or pharmaceutical environment. Strong knowledge base and technical ability in a variety of in vitro biochemistry and cell culture assays pertinent to atherothrombosis drug discovery research required.

Rhône-Poulenc Rorer offers a highly competitive salary, excellent benefits, a challenging work environment, and opportunities for advancement. Qualified candidates should send their resume including salary requirements to: **Rhône-Poulenc Rorer Research & Development, P.O. Box 1200, Mail Code H37, Department 95R-029, Collegeville, PA 19426-0107.** Equal Opportunity Employer, M/F/D/V.



RHÔNE-POULENC RORER

THE RICHARD STOCKTON COLLEGE OF NEW JERSEY

The Richard Stockton College of New Jersey seeks to fill the following vacancies. All positions are for the **FALL 1995** semester.

EUKARYOTIC MOLECULAR BIOLOGY/BIOTECHNOLOGY: Tenure Track Assistant Professor of Biology. Doctorate required, post-doctoral experience helpful. Teaching includes Genetics, advanced animal or medical Molecular Biology, introductory Biology and General Studies courses. Supervise student research.

BIOCHEMISTRY: One-year, Visiting Assistant Professor of Chemistry. Doctorate required, post-doctoral experience helpful. Teaching includes General and/or Organic Chemistry, Biochemistry and a course for non-science students.

ANATOMY FOR HEALTH PROFESSIONS: One-year, Visiting Assistant Professor (Doctorate) or Instructor of Biology (active ABD). Teaching includes Human Anatomy, Functional Anatomy and courses in Introductory Biology and General Studies; Familiarity with computer applications to anatomy teaching and research desirable.

ECOLOGY: One-year, Half-time Visiting Assistant Professor (Doctorate) or Instructor (active ABD) of Environmental Studies. Teaching includes participation in Ecological Principles and advanced course in environmental biology, e.g. microbiology, aquatic biology, wildlife or conservation biology.

All positions require excellence in, and commitment to, undergraduate teaching. Stockton College is recognized for its rich cultural diversity among the faculty, staff and student body.

SALARY: \$30,529-\$38,799 (\$15,265-\$19,400, half-time), may be higher depending on qualifications, experience and increases in the appropriately established compensation plan. Screening begins June 30, 1995. Send letter of application, resume, three letters of recommendation and evidence of completion or expected date of completion of Doctorate to Dr. Barbara Byrne, Dean, Natural Sciences and Mathematics, The Richard Stockton College of New Jersey, AA29, Pomona, NJ 08240-0195. Stockton is an AA/EOE. Women and minorities are encouraged to apply. R504444

Applications and nominations are invited for the position of **DIRECTOR, UC DAVIS CENTER FOR COMPARATIVE MEDICINE**, a new joint venture of the School of Veterinary Medicine and the School of Medicine of the University of California, Davis. The Director will hold a joint administrative and professorial appointment in an appropriate department.

The Center is a cooperative program between the School of Medicine and the School of Veterinary Medicine to establish a multidisciplinary research effort to study comparative biological models that might elucidate the mechanisms, prevention and/or treatment of chronic human diseases. The Center will be housed in a new 21,000 sq. ft. facility, to be located adjacent to the California Regional Primate Research Center; design of the facility has been completed and it will be occupied by Fall 1997. When fully staffed, the Center will house at least eight principal investigators, along with commensurate staff postdoctoral fellows and graduate students.

Candidates must have [1] DVM, MD and/or PhD degree [2] a broad understanding of modern biomedical science; [3] demonstrated administrative/leadership skills; [4] an active and distinguished research record in the use of comparative biological models that elucidate the mechanisms, prevention and/or treatment of chronic human diseases; [5] demonstrated excellence in teaching; [6] a nationally recognized reputation for career achievement and leadership; and [7] experience in the acquisition of extramural funding and a commitment to work in securing additional funding for the programs of the Center.

Applicants should submit a letter of interest, a *curriculum vitae* and the names and addresses of three professional references to Jean A. Kevern, Personnel Officer, School of Veterinary Medicine, University of California, Davis, CA 95616-8734 [telephone: 916 752-1384; fax: 916 752-2801]. Nominations should be sent to the same address. Applications will be accepted until an individual has been selected. The University of California, Davis is an affirmative action/equal opportunity employer.

GLOBAL CAREER OPPORTUNITIES



The Biochemistry Department of the University of Zürich invites applications for an

Assistant Professor in Computational Protein Engineering

Excellent opportunities for collaboration in all aspects of protein biochemistry exist in the department and the University, with Macromolecular Recognition defined as an area of future growth.

Please submit applications by July 1st to the Dean of the Faculty of Science, Prof. Hanns Fischer, Universität Zürich, Winterthurerstr. 190, CH-8057 Zürich, Switzerland. The position is funded by the Swiss Federal Program for Young Scientists, limited to 5 years and restricted to Swiss citizens or international candidates with a degree from a Swiss academic institution.

For further information, contact Prof. A. Plückthun, phone (+41-1) 257 5570, FAX (+41-1) 257 5712.

National Institute of Allergy and
Infectious Diseases
National Institutes of Health

PROTEIN X-RAY CRYSTALLOGRAPHERS

A tenure-track position with intramural funding is available to conduct an original research program and to interact with other scientists within the NIH intramural program. Ph.D. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae including names and addresses of three references to:

**John E. Coligan, Ph.D., Chief
Laboratory of Molecular Structure**

NIAID/NIH
Twinbrook II, Room 103
12441 Parklawn Drive
Rockville, MD 20852-8190
Announcement No. PA-17

Phone: 301-496-3213
Fax: 301-402-0284

U.S. Citizenship not required.
NIH is an Equal Opportunity Employer

THIS IS A SECOND ANNOUNCEMENT

U.S. - ISRAEL BINATIONAL SCIENCE FOUNDATION EXECUTIVE DIRECTOR

The U.S.- Israel Binational Science Foundation (BSF) was established in 1972 to support cooperative science research projects between U.S. and Israeli scientists. Research projects are funded from the interest on an endowment established in equal shares by the two Governments. The office of the BSF is in Jerusalem.

According to this 1972 agreement signed by the two Governments, the Board states the following regulations:

- (a) "The Executive Director shall be the chief executive officer of the Foundation. He shall be responsible for the operations and staffing of the Foundation. He shall set in accordance with the policies, directives and delegations of the Board.
- (b) The Executive Director shall be a person of outstanding ability, prominent in the scientific and administration field. He shall be appointed by the Board of Governors under a contract not exceeding three years with such compensation and under such terms and conditions as may be determined by the Board of Governors."

The candidate for Executive Director must be well acquainted with the Israeli and U.S. academic research systems and the usual proposal review procedures. He or she should have a proven scientific record, as well as administrative experience in the management of scientific research programs.

Curriculum vitae and letters of interest should be submitted by August 1, in the following manner:

U.S. applicants should send their material to:

**Dr. Marcel Bardon, Director
International Programs
National Science Foundation
Arlington, VA 22230**

Israeli applicants should send their material to:

**Mr. Amnon Einav, Chief Scientist
Ministry of Energy and Infrastructure
234 Jaffa Road
Jerusalem, Israel**

Applicants should be able to assume BSF responsibilities as soon as possible, but no later than February 1, 1996.

GLOBAL CAREER OPPORTUNITIES

DIVISION of BIOLOGICAL SCIENCES PROFESSOR OF MOLECULAR BIOLOGY AND DIRECTOR OF THE CENTRE FOR GENOME RESEARCH

Applications are invited for the established Chair of Molecular Biology at the University of Edinburgh, previously held by Professor Sir Kenneth Murray FRS (currently Biogen Research Professor). The Professor will also be appointed Director of the Centre for Genome Research (CGR).

The CGR is an Interdisciplinary Research Centre funded by BBSRC to address fundamental questions in mammalian biology using transgenic and embryo stem cell methods. Excellent research facilities are available.

Candidates should have top quality research standing in an area of work related to the Centre and the foresight and ability to lead a strong programme. It is intended to fill the post from 1 January 1996. The post is tenured and salary will be on the Professorial scale.

Please quote REF: SCI 590243.

For informal enquiries, please phone Professor W. G. Hill (+44(0)131 650-5525 or Fax -6556), or Professor A. P. Bird (-5670) or Dr M L Hooper (-5828).

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

**THE PERSONNEL OFFICE,
THE UNIVERSITY OF EDINBURGH,
1 ROXBURGH STREET, EDINBURGH EH8 9TB
or TEL: 0131-650-2511
(24 hour answering service).**

Closing date: 7 July 1995.



Promoting
Excellence
in Teaching
and Research



The University of Zürich (Switzerland),
Faculty of Sciences, invites applications for a

Professorship in Molecular Plant Pathology

Applications are invited for a Professorship in Molecular Plant Pathology at the Institute of Plant Biology. Candidates should be actively engaged in research of molecular plant pathology and have an established international reputation for research in this field. The candidate is expected to participate in the curriculum of biology at the undergraduate and graduate level. Proficiency in German is expected to be acquired within two years. Depending on the qualification and age of the applicant, the position will be tenurable (Assistant Professor) or tenured.

Candidates should submit a curriculum vitae, a brief statement of research interests (including short and long term goals), a list of publications, copies of five recent key publications and three potential referees to:

Dekan der Philosophischen Fakultät II, Professor Dr. H. Fischer, Winterthurerstr. 190, CH-8057 Zürich, Switzerland.

Applications will be accepted until July 31, 1995. Informal inquiries concerning the position may be addressed to the Executive Director of the Institute of Plant Biology, Prof. Dr. F. Jüttner (phone +1 715 2905, FAX +1 715 5105)

ANNUAL REPORT OF MIZUTANI FOUNDATION RESEARCH GRANT FOR GLYCOSCIENCE (1995)

In 1994, Mizutani Foundation for Glycoscience received 231 research grant applications from 31 countries. After a careful evaluation for scientific merit, potentiality and feasibility, the foundation selected 21 applications and awarded them a total of 100,000,000 yen. The winners of this year's grants are (in alphabetical order):

- 1) Basu, Manju; University of Notre Dame, **USA**; "Studies on sialyl-Lewis x glycolipid in human neuroblastoma and colon carcinoma"
- 2) Bergström, Tomas B.; University of Göteborg, **Sweden**; "Hydrophobic interactions in binding of herpes simplex virus glycoprotein C to the heparan sulfate receptor"
- 3) Chatterjee, Subroto B.; Johns Hopkins Medical Institutions, **USA**; "Effects of D-PDMP on galactosyltransferase (GalT-2) and cell proliferation"
- 4) Dennis, James W.; Mount Sinai Hospital, **Canada**; "GlcNAc-transferase V in cancer and development"
- 5) Drake, Richard R.; University of Arkansas for Medical Sciences, **USA**; "Biosynthesis of heparan sulfate in human myeloma cells"
- 6) Esko, Jeffrey D.; University of Alabama at Birmingham, **USA**; "Glycoside modulation of glycosaminoglycan biosynthesis" *
- 7) Feizi, Ten; MRC Glycosciences Laboratory, **UK**; "Sequences of the endogenous oligosaccharide ligands for rat L-selectin"
- 8) Fernig, David G.; University of Liverpool, **UK**; "Mapping changes in heparan sulphate during mammary gland development"
- 9) Hart, Gerald W.; University of Alabama at Birmingham, **USA**; "Alzheimer's disease and cytoplasmic glycosylation" *
- 10) Helenius, Ari; Yale University School of Medicine, **USA**; "Are lectins involved in glycoprotein folding?"
- 11) Kitajima, Ken; University of Tokyo, **Japan**; "Function of N-glycanase-catalyzed de-N-glycosylation of glycoproteins"
- 12) Laine, Roger A.; Louisiana State University & A&M College, **USA**; "Tandem mass spectrometry of synthetic isomeric oligosaccharides"
- 13) Ledeen, Robert W.; New Jersey Medical School, **USA**; "Ganglioside as modulator of the excitatory opioid receptor"
- 14) Ley, Klaus F.; University of Virginia, **USA**; "Glycoprotein ligands for L-selectin expressed in microvascular endothelium"
- 15) Li, Yu-Teh; Tulane University, School of Medicine, **USA**; "Studies of a KDN-cleaving enzyme"
- 16) Meldal, Morten; Carlsberg Laboratory, **Denmark**; "Glycopeptide libraries for the identification of high affinity glycopeptide ligands for carbohydrate binding proteins"
- 17) Oriol, Rafael; Institut National de la Santé et de la Recherche Médicale, **France**; "Characterization of defective adult and embryonic fucosyltransferase genes"
- 18) Pizzo, Salvatore V.; Duke University Medical Center, **USA**; "The role of plasminogen carbohydrate in regulating fibrinolysis"
- 19) Reynolds, Colin D.; Liverpool John Moores University, **UK**; "Biophysical and inhibition studies on lectins"
- 20) Wieser, Raimund J.; University of Mainz, **Germany**; "Structural and functional characterization of the contactinhibin N-glycans"
- 21) Yamashita, Katsuko; Sasaki Institute, **Japan**; "Biochemical studies of carbohydrate-deficient glycoprotein syndrome"

*Approved for two years.

Mizutani Foundation for Glycoscience: Sen-i Kaikan, 3-1-11, Nihonbashi-honcho, Chuo-ku, Tokyo 103, Japan (Fax: [81] 3-3246-1265, Phone: [81] 3-3246-0224). The method of application for the next year grant may be found in this journal 267, 2052 (1995).



The University of Zürich (Switzerland),
Faculty of Sciences, invites applications for a

Professorship in Developmental Plant Biology

The Institute of Plant Biology invites applications for a Professorship in Plant Development. We are seeking a scientist with an international reputation in a relevant field of Developmental Plant Biology. The new professor is expected to establish a research group, to develop a strong research programme and to teach at undergraduate and graduate levels of the biology curriculum. He is also expected to collaborate with existing research groups at the institute and other research groups of developmental biology at the University of Zürich. Proficiency in German is expected to be acquired within two years.

Depending on the qualification and age of the applicant, the position will be tenurable (Assistant Professor) or tenured.

Candidates should submit a curriculum vitae, a brief statement of research interests (including short and long term goals), a list of publications, copies of five recent key publications and three potential referees to:

Dekan der Philosophischen Fakultät II, Professor Dr. H. Fischer, Winterthurerstr. 190, CH-8057 Zürich, Switzerland.

Applications will be accepted until July 31, 1995. Informal inquiries concerning the position may be addressed to the Executive Director of the Institute of Plant Biology, Prof. Dr. F. Jüttner (phone +1 715 2905, FAX +1 716 5165)



The Laboratory of Behavioral Biology and Functional Toxicology is situated at the Institute of Toxicology, Swiss Federal Institute of Technology, near Zurich, Switzerland.

The Laboratory is concerned with research into brain mechanisms involved in attentional, learning, and memory processes, the development of animal models for psychiatric and neurological disorders, and mechanisms by which psychotropic drugs affect these behavioral processes/animal models.

The Laboratory has vacancies for one **Post-Doctoral position** and several positions for **Ph.D. students** available immediately in the above mentioned areas. Experience in behavioral, neuroanatomical or endocrinological techniques is preferred.

The positions are available for three years. The elected person(s) will be expected to collaborate with other members in the laboratory. The salary will depend on age and experience. The starting date is negotiable.

Please send two copies of your CV, including the names and addresses of three references, to: Laboratory of Behavioral Biology, Institute of Toxicology, Schorenstrasse 16, CH-8603 Schwerzenbach, Switzerland.

國立清華大學 生命科學院

徵院長

公開徵求國立清華大學生命科學院院長，歡迎學術界人士應徵、推薦。清華大學生命科學院是本校重點發展中的教學研究單位。目前共有教師26員，大學部學生150人，碩、博士班研究生106員，本院尚有充裕的教師員額及空間供未來發展。

請將個人基本資料儘速寄至：

中華民國台灣省新竹市

國立清華大學生命科學院

院長徵選委員會收。

TEL : 886-35-715131 轉 3478

FAX : 886-35-715934

E-mail : lshth@life.nthu.edu.tw



AQUATIC ECOLOGY POSITIONS IN SWITZERLAND

The Swiss Federal Institute for Environmental Science and Technology (EAWAG) is a research institute specializing in basic and applied research with water as the central focus. The EAWAG is part of the federal university [Swiss Federal Institute of Technology (ETH-Zurich)].

The Limnology/Hydrobiology Department, one of eleven departments of the EAWAG, currently consists of the professor and twelve staff scientists, plus their Ph.D. students and technicians. The following new positions are part of an expansion that involves strengthening stream/river ecology, adding a littoral zone perspective to lake research, and adding groundwater ecology as a subdiscipline of the department.

1. **STREAM/RIVER ECOLOGIST** (research and teaching) - emphasis on invertebrates at population, community, ecosystems level(s).
2. **ECOLOGICAL GENETICIST**-Aquatic Biota (research and teaching) - to investigate ecological/zoogeographic/evolutionary questions in fresh water systems using molecular techniques.
3. **RIPARIAN/WETLAND ECOLOGIST** (research and teaching) - to investigate plant communities associated with lotic ecosystems. Interest in restoration ecology desirable.
4. **LITTORAL ZONE ECOLOGIST** (research) - to investigate littoral zone processes and littoral-pelagic coupling; macrophytes and/or Aufwuchs.
5. **POSTDOCTORAL ASSOCIATE**: Stream/Groundwater Ecology- a 2 or 3-year position with the professor.
6. **PH.D. STUDENT POSITION**: Stream/Groundwater Ecology - highly motivated students to conduct research leading to the Ph.D. degree under the professor's supervision.

Base salary with possibility of teaching supplement.

REQUIREMENTS - Ph.D. degree in appropriate field (except position 6), postdoctoral experience preferred (positions 1-4). Peer-reviewed publications are considered the strongest evidence of active research contribution to the discipline. Only those fully committed to productive scholarship should apply.

SALARIES - highly competitive, the amount dependent upon qualifications and experience.

FACILITIES - Most members of the department are housed in the main EAWAG facility at Dubendorf, a few minutes from Zurich. The littoral zone ecologist will be located at the Limnological Research Center at Kastanienbaum, on the shore of Lake Lucerne. Excellent resources are available for research and teaching. A state-of-the-art Analytical Chemistry Laboratory is a valued component of the department. Possibilities for interdisciplinary research are outstanding.

TIME FRAME - positions are available from 1 October 1995. Applications are due by 31 August 1995, although the search may be extended if suitable candidates are not found.

APPLICATION - send a letter of application, a curriculum vitae, transcripts, and the names (address/phone/FAX) of four references to: Prof. J.V. Ward, Dept. of Limnology, EAWAG/ETH, Überlandstrasse 133, CH-8600, Dubendorf, Switzerland.

ADDITIONAL INFORMATION - direct to Dr. Peter Bossard Limnological Research Center, CH-6047 Kastanienbaum, Switzerland, Phone +41-41-482-120; FAX +41-41-482-168; E-mail bossard@eawag.ch

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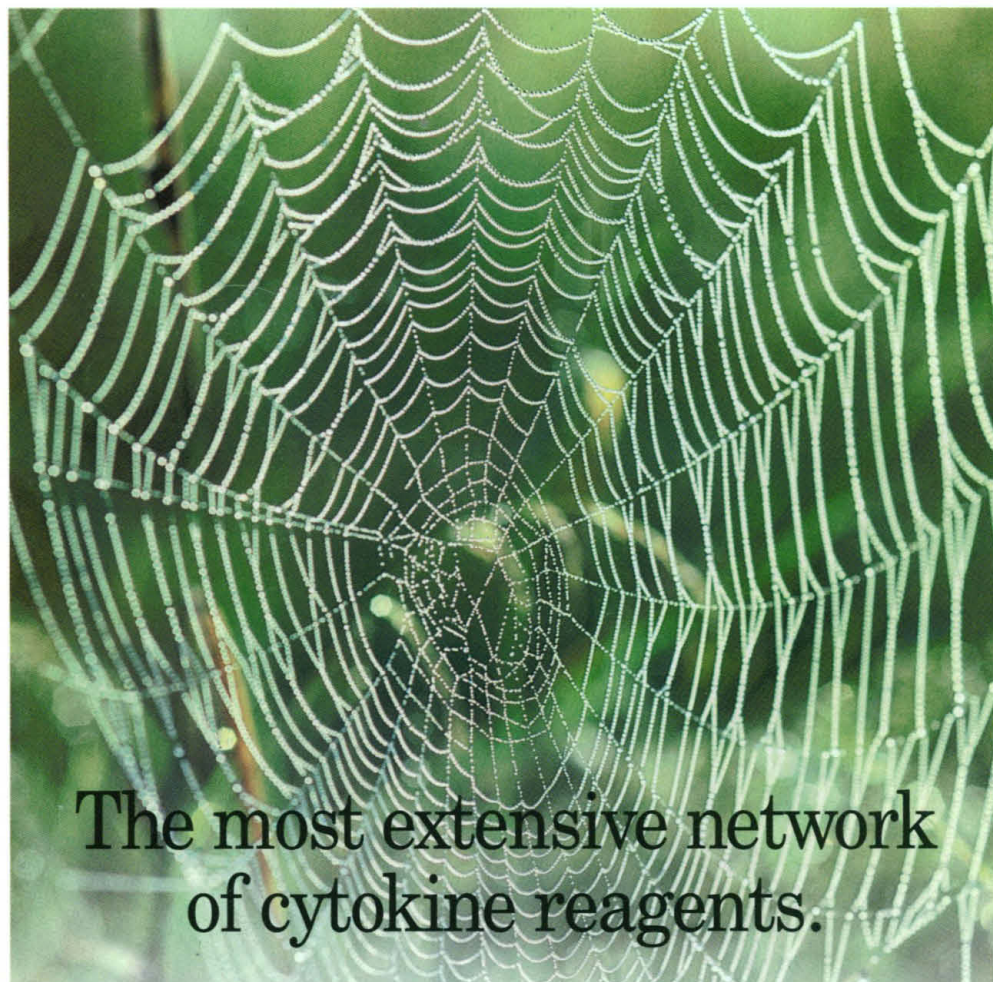
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