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* U.S. Patent

Northern blot of rat growth hormone (rGH) mRNA (1 kb)

Southern blot of EcoR1 rGH gene fragment (11.4 kb)

Western blot of rGH (22 kD)
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Researchers are encouraged to submit data to whichever of the three databases is most convenient. The receiving database will transmit the data to the other two. Collectively, the databases will make the sequence information available to scientists throughout the world through computer networks, magnetic tapes, and CD-ROMs.

Many editorial policies require submission of sequence data and the issuance of an accession number by the databases as a condition of publication. (At the authors' option, sequence data may be kept confidential until publication.) But even when not required, the inclusion of an accession number in a publication helps users efficiently retrieve the sequence from the databases. To facilitate the submission process, free software for PC and Macintosh computers is available. For assistance with sequence submission, contact the most convenient database:

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Address: National Center for Biotechnology Information
National Library of Medicine
Bldg. 38A, Rm. 8N-803
Bethesda, MD 20894 USA

Telephone: +1 (301) 496-2475
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E-mail queries: info@ncbi.nlm.nih.gov
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Hinxton
Cambridge CB10 1RQ
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Data submissions: datasub@ebi.ac.uk

DNA Data Bank of Japan
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National Institute of Genetics
Mishima
Shizuoka 411
Japan

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POSITIONS OPEN

ECONOLOGIST
Microbial Controls Over Ecosystem Processes
The Department of Biology and Wildlife and the Institute of Arctic Biology at the University of Alaska Fairbanks invite applications for a full-time, tenure-track position at the rank of ASSOCIATE PROFESSOR in ecology, whose interests emphasize controls over biogeochemical cycling, with expertise in terrestrial (soil, terrestrial aquatic interface, or wetlands) microbial ecology. The successful candidate is expected to develop an active, externally funded research program, teach two courses per year, including microbial ecology in alternate years, and participate in graduate training in ecology and undergraduate instruction. Ph.D. or equivalent in Biology or closely related field is required. Preference will be given to candidates with university teaching experience, and a strong publication record. The successful applicant will be provided with research space and start-up funds within the Institute of Arctic Biology. Extensive analytical facilities and opportunities for collaborative research exist within the Talga LTER program, and within Institute research programs in molecular biology, physiology, and population and ecosystem ecology, including plant-herbivore interactions. To apply, send curriculum vitae, statement of research and teaching interests, copies of reprints, and at least three letters of reference sent to: Dr. Roger W. Rues, Ecologist Search, Institute of Arctic Biology, University of Alaska, Fairbanks, AK 99775-7000. Telephone: 907-474-7138. Review of applications will begin March 1, 1995, and continue until a suitable candidate is identified. Women and minorities are encouraged to apply. University of Alaska Fairbanks is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR
Applied Soil Biochemist
TENURE-TRACK, academic year position in the Department of Natural Resources Science beginning July 1, 1995. Position is approximately 60% teaching and 40% research. Teaching responsibilities include an undergraduate course in inorganic chemistry of soils and water, a course in field and laboratory methods for soil and water investigations, and a graduate course related to the fate of inorganic chemicals on the landscape. Successful applicant is required to demonstrate their effectiveness, through publications and grants, to develop a high-quality, fundable, graduate research program that focuses on the influence of land use and vegetated ecosystems on the fate of inorganic chemicals, with special attention to water quality issues.
Ph.D in soil science, ecology, forestry, agricultural engineering, environmental science, or related field required. Minimum of one year of relevant postdoctoral experience required. Experience in biogeochemical cycling, landscape-scale studies, and plant/soil/chemical interactions required. Experience with landscape scale analytical techniques such as geostatistics preferred. Teaching experience preferred.
Submit a letter of application including a statement of teaching and research interests, curriculum vitae, official transcripts, and three letters of reference by April 15, 1995, to: Arthur Gold, Search Committee Chair (Log No. 119130), University of Rhode Island, P.O. Box G, Kingston, RI 02881. The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is committed to increasing the diversity of its faculty, staff and students. People from underrepresented groups are encouraged to apply.

ASSISTANT PROFESSOR
Insect Systematics
Systematics/taxonomy. A 12 month, tenure track position at the ASSISTANT PROFESSOR level is available in the Department of Entomology for an insect systematist with broad taxonomic skills and a primary interest in biodiversity. Candidates employing molecular approaches to systematics and taxonomic research are encouraged to apply. The successful applicant will be expected to develop and teach insect taxonomy (Insect Taxonomy and Principles of Systematics). Preference will be given to candidates with postdoctoral experience. Send curriculum vitae, statement of research interests and plans, names and addresses of three references and telephone numbers to: Dr. Tim Casey, Department of Entomology, Cook College, Rutgers University, New Brunswick, NJ 08903. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
VIROLOGIST/IMMUNOLOGIST
Johns Hopkins University School of Public Health has an ASSISTANT or ASSOCIATE PROFESSOR opening for an M.D. or Ph.D. scientist with research interests and experience in evaluating humoral/mucosal immunological responses to and correlates of protection conferred by virus vaccines. Candidates must have demonstrated excellence in independent research. The successful candidate would join a faculty active in research on the development of vaccines to protect against respiratory viruses and other mucosal pathogens. This position involves the conduct of independent and collaborative research, and teaching and training graduate students in the Department of Immunology (Division of Virology and Immunology) and Microbiological and Immunology. Send letter of application, including current and future research plans, curriculum vitae and names and addresses of three references. The University of Wisconsin-Madison, M.D., M.P.H., Director, Johns Hopkins University Center for Immunization Research, Room 125, 624 North Broadway, Baltimore, MD 21205. Telephone: 410-955-4376. FAX: 410-550-6898.
This is the University of Florida, Gainesville, FL 32611-0700. The University of Florida is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR

Tenure-track faculty position, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine. The Department of Pharmacology and Experimental Therapeutics is seeking to fill a position of ASSISTANT or ASSOCIATE PROFESSOR position. The candidate should have a Ph.D. and/or M.D. degree, postdoctoral experience, and a strong commitment to excellence in research and teaching. Evidence of originality, scientific accomplishment, and the ability to develop a productive, independent research program, is essential. Salary is competitive, and based on experience and qualifications. Start-up support will be provided for early development. Candidates should send their curriculum vitae, three letters of recommendation, and a synopsis of their current and future research interests to: Dr. Israel Hanin, Chairman, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Telephone: 708-216-3261; FAX: 708-216-6596. An Affirmative Action/Equal Employment Opportunity Employer.

EVOLUTIONARY ECologist MICROBIOLOGIST/IMMUNOLOGIST

Carleton College

Applications are invited for two positions beginning September 1, 1995, at the rank of VISITING ASSISTANT PROFESSOR OF MICROBIOLOGY/IMMUNOLOGY. Carleton College, a four-year liberal arts institution in the upper Midwest, seeks candidates who have a strong commitment to undergraduate education and teaching excellence. We are particularly interested in candidates who can contribute to the diversity of our student body. The successful candidate will be expected to design and teach courses in the areas of microbiology and immunology, and to participate in curricular development. Salary is competitive, and is negotiable based on qualifications and experience. Review of applications will begin December 1, 1994, and will continue until the positions are filled. Inquiries and applications should be directed to: Dr. Janet Paull, Chair, Department of Biology, Carleton College, Northfield, MN 55057-4025. An Equal Opportunity/Equal Employment Institution.

The University of Pennsylvania, Department of Psychiatry, has open position for RESEARCH ASSISTANT PROFESSOR, non-tenure-track. Candidate must be a Ph.D. or M.D. who has significant experience in biological approaches to be well suited to address sleep disorders and ability to attract extramural support. Please send curriculum vitae and letter to: Ava Plotnick, Department of Psychiatry, University of Pennsylvania, 305 Blockley Hall, 418 Guardian Drive, Philadelphia, PA 19104-6021. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.

The University of Pennsylvania, Department of Psychiatry, has open position for RESEARCH ASSISTANT PROFESSOR, non-tenure-track. Candidate must be a Ph.D. or M.D. with fellowship training in neuroscience/neurobiology and research interest in mammalian circadian rhythms, sleep, and sleep disorders. Experience with animal research is preferred. Please send curriculum vitae and letter: Dr. A. Plotnick, Department of Psychiatry, University of Pennsylvania, 305 Blockley Hall, 418 Guardian Drive, Philadelphia, PA 19104-6021. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.

ASSISTANT PROFESSOR ENVIRONMENTAL MICROBIOLOGY

The Environmental Sciences Program, University of Massachusetts, Amherst, seeks an Environmental Microbiologist/Molecular Biologist (Tenure-trackposition). The successful candidate will be expected to develop a vigorous research program and to participate in the teaching of graduate and undergraduate courses in microbial bioremediation. Responsibilities include undergraduate, graduate, and postdoctoral training. Applications are invited from candidates with a Ph.D. in Environmental Microbiology, Biotechnology, or related science and at least two years of postdoctoral experience. The closing date for this position is March 1, 1995. Applicants should submit a curriculum vitae, summary of research interests, and the names of three referees to: Lonnie O. Ingram, Department of Microbiology and Cell Science, Museum Road, P.O. Box 11700, University of Florida, Gainesville, FL 32611-0700. The University of Florida is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.

ASSOCIATE PROFESSOR BIOCHEMISTRY

The Department of Chemistry and Biochemistry invites applications from exceptional candidates, with a Ph.D. and postdoctoral training, for a TENURE-TRACK POSITION starting September 1, 1995, or later. The successful candidate is expected to establish a national and international program in a significant area of biochemistry or structural biology. Teaching at both undergraduate and graduate levels is expected. Applicants will be considered for an academic appointment, and the candidate will be considered for the advanced level. Review of applications will begin February 15, 1995, and will continue until the position is filled. To be considered for the advanced position, candidates must have or have the potential for fulfilling the requirements of a tenure-track position.

ASSOCIATE PROFESSORS MICROBIOLOGY

The Department of Microbiology and Immunology, SUNY College of Medicine, Syracuse, invites applications for two full-time, TENURE-TRACK FACULTY positions. We particularly seek strong, active, productive applicants for research programs in molecular virology, cancer virology, or gene therapy. Salary, space and start-up funds are competitive with national levels. Teaching duties will be at the undergraduate level, and support is available. The Department is expanding and is committed to building new programs. Please submit curriculum vitae, statement of research interests and names of three references to: Edward J. Shillito, Ph.D., Chairman, Department of Microbiology and Immunology, SUNY College of Medicine, 750 East Adams Street, Syracuse, NY 13210. Telephone: 315-446-5453. The SUNY Health Science Center at Syracuse is an Equal Opportunity/Affirmative Action Employer.
THE UNIVERSITY OF CALIFORNIA, IRVINE
SCHOOL OF BIOLOGICAL SCIENCES

ANNOUNCING THE RE-OPENING OF FIVE FACULTY POSITIONS WHICH WERE ORIGINALLY ADVERTISED IN THE NOVEMBER 4, 1994, ISSUE OF SCIENCE.

UCI's School of Biological Sciences has 70 full-time faculty doing innovative work in a broad range of research areas including cellular, developmental, evolutionary and molecular biology, biochemistry, ecology, and neurobiology. In conjunction with the basic science departments of the UCI College of Medicine, we operate several respected graduate programs. We currently have five positions available which will require selected candidates to develop and maintain an active research program, and to participate in both our undergraduate and graduate teaching programs. Curriculum vitae, a description of research and teaching backgrounds, and names and addresses of three references should be submitted by Feb. 17, 1995 to the appropriate Search Committee Chair.

DEPARTMENT OF MOLECULAR BIOLOGY AND BIOCHEMISTRY

Assistant Professor - Tenure Track

The successful applicant will have broad training in immunology and research interest in the field of immunopathogenesis. Departmental research interests cover a wide range of topics in molecular biology, molecular genetics, biochemistry, immunology, structural biology and cellular biology. Additionally, we have strong interdepartmental research units in virology and cancer as well as an expanding program in molecular pathogenesis in conjunction with the College of Medicine. Send materials to: Dr. Anthony James, Department of Molecular Biology and Biochemistry, UCI, Irvine, CA 92717-3900.

DEPARTMENT OF PSYCHOBIOLOGY

Assistant Professors (2) - Tenure Track

Current departmental research emphasis is plasticity with a focus on problems within the areas of learning and memory, integrative neuroscience and aging/neurodegeneration. The successful candidates will be neurobiologists working at the molecular, cellular, systems or behavioral levels. We anticipate that candidates’ research will complement current Departmental research programs and have a manifest relationship to some behavioral endpoint. Send materials to: Dr. H.P. Killacky, Department of Psychology, UCI, Irvine, CA 92717-4550.

DEPARTMENT OF DEVELOPMENTAL AND CELL BIOLOGY

Assistant Professor - Tenure Track

The successful candidate will be using innovative approaches, preferably molecular and genetic, to investigate fundamental problems in the development of animals or plants. Research interests in the Department include the molecular genetics and cell biology of pattern formation, growth control and cell signaling in animals and plants, as well as development of the nervous system. Send materials to: Dr. Susan V. Bryant, Department of Developmental and Cell Biology, UCI, Irvine, CA 92717-2300.

SCHOOL OF BIOLOGICAL SCIENCES - STRUCTURAL BIOLOGIST

Assistant/Associate Professor - Tenure Track

The successful candidate will have a background in the area of macromolecular crystallography, NMR spectroscopy or computational/theoretical approaches to fundamental biological problems. Facilities at UCI include high field NMR, spectrometers, state-of-the-art x-ray diffraction equipment, and excellent computing facilities including access to the UCSD Super Computing Center. Send materials to: Dr. Thomas Poulos, Department of Molecular Biology and Biochemistry, UCI, Irvine, CA 92717-3900.

The University of California, Irvine, is committed to diversity and encourages applications from women and minorities.

RPI, a leader in the development of ribozyme-based pharmaceutical and agricultural products, has established a multi-disciplinary team of creative scientists in a new facility in Boulder, Colorado. We are seeking qualified applicants to join our efforts to develop ribozymes as novel therapeutics. Our proprietary technology provides the exciting opportunity to explore the identification and delivery of small, catalytically active RNA molecules exogenously and express ribozymes from gene therapy vectors for the treatment of human disease. Three positions are available immediately:

Ph.D. Scientist with 2+ years’ postdoctoral experience to join the Vector Biology group to develop adenoviral vectors for delivery of ribozymes. The preferred candidate will have expertise relating to the design, construction and production of adenovirus and/or adeno-associated virus vectors. Please submit materials to Dr. Larry Coutre, Senior Scientist, Vector Biology.

Ph.D. Scientist with 2+ years’ postdoctoral experience to join the Cell Biology group and to develop methods of introducing ribozymes into CD34+ hematopoietic stem cells. The preferred candidate will have expertise relating to the selection, propagation and differentiation of hematopoietic stem cells. Please submit materials to Dr. Dan T. Stinchcomb, Director, Biology Research.

Ph.D. or D.V.M Scientist with 2+ years’ postdoctoral experience to join the Pharmacology group to develop in vivo assays of ribozyme function. The preferred candidate will have expertise relating to small animal models of cardiovascular disease, transplantation, or autoimmune disease and experience with in vitro cell-based assays. Please submit materials to Dr. Dan T. Stinchcomb, Director, Biology Research.

We offer a competitive salary and benefits package, including a stock option plan. For consideration, please send a Curriculum Vitae, the names of three references and indicate your position of interest, to: Ribozyme Pharmaceuticals, Inc., 2950 Wilderness Place, Boulder, CO 80301. FAX: (303) 449-6995. No phone calls, please. We are an equal opportunity employer.

RIBOZYME PHARMACEUTICALS, INCORPORATED
PHYSIOLOGIST/MOLECULAR BIOLOGIST

The Department of Physiology, Queen's University welcomes applicants for a FACULTY POSITION that involves the use of molecular biological techniques to answer physiological research questions. Since the Department's areas of strength are Cardiovascular, Endocrine, Gastrointestinal and Neurophysiology, preference will be given to applicants with interests in these areas.

Applicants are invited to establish an independent, externally funded research program, and to contribute to the teaching duties of the Department, though protected time will be provided in the initial years to allow establishment of this program. This is a Special Appointment, contingent upon the successful applicant acquiring salary support from an external agency.

Applicants are required to submit a curriculum vitae, names of at least three references and a statement of research goals. A review of applications will be begun on March 15, 1995.

Dr. Mark A. Bisty
Department of Physiology
Queen's University
Botterell Hall, Room 442
Kingston, Ontario, Canada
K7L 3N6

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

GENETICS OF LIPROTEIN METABOLISM

The Southwest Foundation for Biomedical Research (SFBR) invites applications for a FACULTY LEVEL POSITION in the Department of Genetics to develop a new laboratory for genetic studies of lipoprotein metabolism. The successful candidate will be expected to develop a strong independent research program and will have opportunities to collaborate in ongoing research using human subjects and our unique pedigreed colonies of 3,000 non-human primates. Major research projects in the Department of Genetics focus on genetic causes of common diseases, including atherosclerosis, diabetes, hypertension, obesity, and osteoporosis. Preference will be given to candidates interested in metabolic studies of lipoproteins using our pedigreed primates, but candidates from other research areas pertinent to lipoproteins and atherosclerosis will also be considered. This is an excellent opportunity for a creative scientist in an expanding genetics department. Affiliation with academic institutions may be possible at a later date and rank will be commensurate with experience. Candidates must have a doctoral degree in the biological sciences and two years of postdoctoral experience. Applicants should send a curriculum vitae, names and addresses of at least three references and a statement of research interests, names, and telephone numbers of three references to: Director of Human Resources (444), SFBR, F.O. Box 28147, San Antonio, TX 78228-0147.

An Equal Opportunity Employer.

FACULTY POSITION–IMMUNOLOGY

The University of Maryland Cancer Center and the Department of Microbiology and Immunology, University of Maryland School of Medicine invites applications for a TENURE-TRACK FACULTY position at a level commensurate with experience for our joint research program in cancer biology. Candidates should have a Ph.D. and/or M.D. degree with at least two years of postdoctoral experience. Academic rank is to be commensurate with qualifications and experience. The successful candidate will be expected to establish a vigorous, externally funded research program in the area of molecular or cellular biology of the retina and/or circadian rhythm and participate in the medical school teaching of neuroscience, anatomic or pharmacology.

Applicants should send an introductory letter; names, addresses and telephone numbers of three references; and copies of most significant recent publications to: Dr. Michael C. Lafferty, Head, Department of Cell and Neurobiology, University of Southern California School of Medicine, 2033 Zonal Ave., Los Angeles, CA 90033.

An Equal Opportunity/Affirmative Action Employer.

SABA UNIVERSITY SCHOOL OF MEDICINE

Immediate opening: Two FACULTY POSITIONS for retired or semi-retired M.D.'s to teach in the areas of Clinical Medicine and Pathology. Immediate, permanent, openings with salary range $24,000 to $30,000, tax-free. Saba is a peaceful, crime-free, Dutch Caribbean island near St. Maarten. Information call David Fredrick, 2421 West Pratt Boulevard, Suite 444, Chicago, IL 60645. Telephone: 803-278-5544.

SOUTH WESTERN UNIVERSITY AT GEORGETOWN, TEXAS

MOLECULAR MECHANISMS OF CELL SIGNALING

The Anesthesiology Basic Research Unit wishes to fill a tenure-track position for a basic scientist at the ASSISTANT PROFESSOR level. The successful candidate will be expected to develop an independent research program focused on the molecular basis of signaling mechanisms in the nervous system. We are particularly interested in candidates with interests in neurotransmitter/glycoproteins, and/ or long term changes in neuronal excitability. Generous start-up funds and space will be provided. The Unit (Doctors Boyle, Crowder, Evers, Gautam, Hotchkiss, Lingle and Steinbach) provides a unique environment with interests in the molecular biology of G-proteins, structure and function of ion channels, molecular targets of anesthetics, and cellular physiology. The successful candidate will have joint appointments in a basic science department and are part of the strong graduate training program at Washington University. Candidates must have a Ph.D. and/or M.D. degrees with appropriate postdoctoral experience. The application deadline is March 15, 1995. Interested individuals should submit a curriculum vitae, a statement of research plans, and names of three references to:

Search Committee
Anesthesiology Research Unit
Washington University School of Medicine
Box 8050
St. Louis, MO 63110

Environmental Science Educator: Full-time, tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level in an appropriate science department of the College of Arts and Science with affiliate status in the School of Education and Allied Professions. Teaching responsibilities would include science education and science courses. Doctorate in an appropriate scientific discipline or science education required. Preference will be given to an individual with a record of scholarship in science education or discipline-specific science education. Active scholarship in these areas is expected. The successful candidate will demonstrate significant interdisciplinary and interdepartmental interaction/collaboration related to environmental education. Interested persons should submit a curriculum vitae, transcripts, statements of teaching and scholarship goals, and arrange for three letters of recommendation to be sent to: Richard E. Lee, Jr., Department of Zoology, Miami University, Oxford, OH 45056. Review of applications will begin on March 1, 1995. Miami University offers Equal Opportunity for Employment and Education.

CELLULAR/MOLECULAR BIOLOGY FACULTY

The Department of Biology invites applications for a TENURE-TRACK, full-time undergraduate teaching position with normal faculty duties; research is encouraged. Quantitative or computational biology is preferred, but other areas may be considered. Candidates should have a Ph.D., equivalent in Biological Science with substantial emphasis in modern cellular/molecular biology. Interest and excellence in teaching and advising are essential. Applicants should send a curriculum vitae, contact information for at least three letters of recommendation, and outline of teaching and research plans to: Dr. Carol A. Lett, Department of Biology, University of Texas at Austin, Box 298050, Austin, TX 78729.

ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY

TENURE-TRACK POSITION beginning August 1995. Applicants must have a Ph.D. and teaching experience at the undergraduate level. Responsibilities include teaching General Biology, upper-level classes in ecology for majors and general science for non-majors. The individual will be expected to maintain a modest research program and direct undergraduate research. Send curriculum vitae and names and addresses of three references by 24 February 1995 to: Dr. Beatrice Robinson, Department of Biology, Le Moyne College, Syracuse, New York 13214.

ASSISTANT/ASSOCIATE PROFESSORS

Neuroscientist/Neuropharmacologist

Applications are invited for a TENURE-TRACK POSITION at the level of ASSISTANT/ASSOCIATE PROFESSOR in the Department of Cell and Neurobiology at the University of Southern California School of Medicine. Applicants should have a Ph.D. and/or M.D. degree with at least two years of postdoctoral experience. Academic rank is to be commensurate with qualifications and experience. The successful candidate will be expected to establish a vigorous and externally funded research program in the area of molecular and cellular biology, or in behavior, learning and memory. Applicants should send a curriculum vitae, names of three references, and a statement of research interests and plans to: Dr. Michael C. Lafferty, Head, Department of Cell and Neurobiology, University of Southern California School of Medicine, 2033 Zonal Ave., Los Angeles, CA 90033.

An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
Autoimmune Endocrinopathies
Noel Maclaren, M.D.- Applicant must have Ph.D. in immunology or related field, or M.D. with strong interest in autoimmune endocrinopathies. (Box 100275)

Gene Therapy
William Hauswirth, Ph.D.- Candidate must have research interest in ocular gene therapy using viral vectors. Experience in molecular cloning preferred. (Box 100266)

Mammalian Genetics
Richard Condit, Ph.D.- Molecular virology and transcription research opportunity anticipated to be available in Fall 1995. (Box 100266) Richard W. Moyer, Ph.D.- Seeking individual with interest in molecular virology, viral pathogenesis, and designing viral vectors to ameliorate inflammatory and other host responses. Applicant must have expertise in molecular biology, genetics, or virology. (Box 100266)

Membrane Transport
The Interdisciplinary Faculty for Membrane Biology invite applications from qualified individuals for postdoctoral training in the general area of membrane transport. From the eighteen members of this dynamic group, opportunities exist with the following faculty at the present time: 1) Mike Kilberg, Ph.D. (Amino acid transport and disease) (Box 100245); 2) Brian Cain, Ph.D. (Proton pump ATPases) (Box 100245); 3) Susan C. Frost, Ph.D. (Nutrient control of glucose transport); (Box 100245) 4) Edward Block, M.D. (Endothelial arginine transport); (Box VA Research 151) 5) Kevin Anderson, Ph.D. (Glutamate transport in brain); (Box 100144) and 6) Charles S. Wingo, M.D.- Seeking interested applicants for studies focusing on the identification of the genes and gene products responsible for H,K-ATPase activity in kidney, their regulation by acid-base and potassium balance, and adrenocorticoid hormones. (Box 100224) Preference will be given to those applicants who have background in cell and molecular biology.

Metabolic Chemistry
Peter Stacpoole, M.D., Ph.D.- Applicant must have research interest in drug metabolism and stable isotope kinetics in humans, animals and subcellular systems. Must be proficient in GC-MS, and knowledge of NMR spectroscopy and HPLC is desirable. (Box 100226)

Molecular Neuropsychopharmacology
Robert H. Lenox, M.D.- Applicants should have a strong background in molecular biology. Research interests and experience in molecular neurobiology, cytoskeletal remodeling and gene expression are highly desirable. (Box 100256)

Molecular Pathogenesis of HIV-1
Maureen M. Goodenow, Ph.D.- Position requires training in cell biology and molecular biology. Candidates must have research interest in virologic factors involved in pediatric HIV-1 disease, and events that occur early in HIV-1 infection. (Box 100275)

Neurobiology of Alcohol Abuse
Marieta B. Heaton, Ph.D., Don W. Walker, Ph.D.- Positions are available for individuals who are interested in investigating the mechanisms of alcohol neurotoxicity. Applicants should have expertise in molecular biological methods to study the effect of alcohol on gene expression and signal transduction. (Box 100244)

Neuronal Cytoskeleton
Gudrun S. Bennett, Ph.D.- Position available in the area of neurofilament kinases for an individual with experience in molecular/cell biology, and/or protein chemistry. (Box 100235)

Neuropharmacology
William R. Kem, Ph.D.- Seek to hire a recent Ph.D. scientist with experience in patch-clamp analysis of single voltage-gated ion channels expressed in Xenopus oocyte and cultured cell membranes. (Box 100267)

Neuroscience
Peter W. Stacpoole, M.D., Ph.D.- Applicant must be proficient in cell culture and molecular biological techniques, and have research interest in mammalian nuclear and mitochondrial gene regulation in brain. (Box 100226)

Oncology
Tiliang Deng, Ph.D.- Seek individual with interest in the area of regulation of jun and fos transcriptional and oncogenic activities by extracellular signals. (Box 100245)

Signal Transduction
Philip Scarpace, Ph.D.- Candidates must have interest in research that involves regulation of the gene expression of adenyl cyclase in the aging rat myocardium. (Box 100267)

Spectroscopy
Katherine N. Scott, Ph.D.- 1) Position available to join an active program in water suppressed H-1 NMR monitoring of therapy response of musculoskeletal tumor patients. 2) We have ongoing active programs in P-31 NMR spectroscopy monitoring of vascular disease and chronic heart failure patients. Interested applicants must have NMR specialization and experience with in vivo spectroscopy and/or imaging. Familiarity with a GE Signa imager would be highly desirable. (Box 100374)

TO APPLY:
For additional information and specified requirements for any of the above opportunities please write: University of Florida, College of Medicine, (indicate appropriate Box # for position of interest), Health Science Center, Gainesville, FL 32610. The University of Florida is an Affirmative Action-Equal Opportunity Employer, and applications from minorities and women are strongly encouraged.
UNIVERSITY OF WASHINGTON
Executive Director of Technology Transfer and Corporate Outreach

The University of Washington (UW) is seeking a senior-level executive to lead its technology transfer and corporate outreach program. High energy, an entrepreneurial orientation, and the ability to work well with faculty and corporate representatives are required characteristics. The successful candidate will guide structural and functional coordination of the University’s Office of Technology Transfer (OTT) with the Washington Research Foundation (WRF), a separate non-profit corporation. Interactions within UW in commercialization of UW technologies. This will include defining and implementing a long-range plan to deploy the joint resources of OTT and WRF to support UW faculty and intellectual property management program. High priority will be given to expanding OTT/WRF capability for starting and growing new companies based on emerging UW technologies, and to developing innovative research collaborations and funding arrangements with industry. Qualifications include: a balanced commitment to academic values and entrepreneurial orientation, and a reputation as a consensus-builder. An advanced degree in a scientific discipline, and relevant experience in both a research university and industry are preferred.

Send resume and cover letter to Search Committee for Executive Director, University of Washington, Office of Research, AC-20, WA 98195. Salary will be commensurate with qualifications. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

MUEHLBENGER COLLEGE
BIOLOGY DEPARTMENT HEAD

Muhlenberg College seeks candidates for the tenure-eligible position of Professor and Department Head. Rank and salary commensurate with qualifications and experience. The position requires a Ph.D. in biology with demonstrated commitment to excellence in teaching consistent with the traditions of a liberal arts education and a distinguished record of scholarship. Preferred area of expertise is cellular biology with interest in neurobiology. Leadership in curricular development in the biological sciences, the ability to nurture faculty development and research programs, and administrative abilities desired.

Muhlenberg College is a church-related liberal arts college located one hour north of Philadelphia. Applications by sending a statement of research interests, teaching mission and commitment to diversity and administrative philosophy, and three reference letters to: Dr. Carl Oplinger, Biology Department, Muhlenberg College, 3400 Chew Street, Allentown, PA 18104, is also a good idea. Review begins March 1, 1995. An Equal Opportunity Employer, we encourage applications from minority and women candidates.

TENURE-TRACK FACULTY POSITION

The Division of Neurobiology at the Barrow Neurological Institute is seeking a faculty person with a demonstrated research focus in motor or visuomotor research. The capacity to develop and maintain a grant-supported research program and to participate in collaborative research programs within the Division is critical. A minimum of two years of postdoctoral experience is required. Early and mid-career individuals are urged to apply. The position is available beginning January 1995. The search process will remain open until the candidate is selected. Applicants should contact: Dr. John Bloedel, Chairman, Division of Neurobiology, Barrow Neurological Institute, 350 West Thomas Road, Phoenix, AZ. Phone: 602-406-3487. Equal Opportunity Employer.

DEAN
COLLEGE OF ENGINEERING
The University of Michigan

The University of Michigan currently is seeking nominations and applications for the Deanship of the College of Engineering. The candidate should have administrative experience and be a distinguished technical professional. The Deanship of Engineering at the University of Michigan seeks a leader who can build a strong, diverse research and education program and provide leadership for the development of the College's faculty and students. The successful candidate will have strong interpersonal skills, a commitment to diversity, and a record of excellence in both research and teaching.

WILLIAM G. ALLYN CHAIR IN MEDICAL OPTICS
THE INSTITUTE OF OPTICS
UNIVERSITY OF ROCHESTER
Endowed Professorship in Medical Optics

The Institute of Optics invites nominations and applications for the new endowed chair in Medical Optics. The successful candidate will be expected to have achieved international prominence in some aspect of medical optics, and to have a position at the level of full professor. He or she will be expected to conduct a vigorous program of research and to participate actively in the Institute's educational and teaching program in optical science and engineering. The Institute of Optics, an academic department offering B.S., M.S., and Ph.D. degrees in Optics, has approximately 120 undergraduate students and 85 graduate students in residence.

The University's Medical Center and Center for Visual Science offer significant opportunities for collaborative research in areas of optical science, engineering, and technology to important areas of modern medicine. Each chair should include a letter describing teaching and research interests, a curriculum vitae, and the names of three references. Nominations and applications are requested to:

Professor Dennis G. Hall, Director
The Institute of Optics
University of Rochester
Rochester, NY 14627

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

The Division of Molecular Medicine and Genetics and Hematology/Oncology in the Department of Internal Medicine, University of Rochester Medical Center, are seeking two M.D. FACULTY with research expertise in Cancer Molecular Genetics (with Board certification in internal medicine and subspecialty training in clinical genetics, medical oncology, or hematology). One faculty position is designed for a clinical investigator who will participate in the identification of susceptibility and management of individuals with genetic susceptibilities to cancer; the other position is designed for a physician/scientist with a laboratory program in cancer genetics. Interested applicants should send a curriculum vitae, statement of interest, and list of potential references to: David Ginsburg, M.D., Division of Molecular Medicine and Genetics, 600 Edgerton Way, Rochester, NY 14620. Applications for both positions must be received by April 1, 1995.

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

Bacterial Pathogenesis. The Department of Microbiology, University of Virginia is expanding its program in molecular pathogenesis to complement existing strengths in molecular genetics, immunology, and virology. A TENURE-TRACK FACULTY POSITION is available in the area of the molecular, genetic, or cellular aspects of bacterial pathogenesis. Outstanding candidates with a Ph.D. or M.D. degree and postdoctoral experience are invited to apply for this position. The successful candidate is expected to establish a successful, independent and interactive research program, and will have some teaching responsibilities. Applicants should submit their curriculum vitae, a concise statement of research interests, and selected reprints. These and three letters of reference should be sent to: Chair, Search Committee, Department of Microbiology, University of Virginia, Charlottesville, VA 22908-4004. Applications should be received by April 1, 1995. The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority scientists.

ZOOLOGICAL MUSEUM
UNIVERSITY OF COPENHAGEN

Two CHAIRS in systematic zoology are vacant from 1 December 1995: 1) Biodiversity (including Vertebrates); 2) Systematic Entomology. Deadline for applications: 3 April 1995. Full text and further information can be obtained from: The Director, Zoologisk Museum, Universitetsparken 15, DK-2100 Copenhagen, Den- mark. FAX: +45 35 32 10 10; Email: cnlens@zmuc.ku.dk.

The two positions are open to candidates with a Ph.D. degree in the fields of systematic zoology. The successful candidate will be expected to have achieved international prominence in their respective fields, and to have a position at the level of full professor. Applications will be considered from individuals with a strong record of research, teaching, and administrative experience. The successful candidate will be expected to conduct a vigorous program of research and to participate actively in the Museum's educational and teaching programs in animal systematics and biogeography. The Museum's collection includes over 120,000 specimens from all parts of the world, and is one of the largest and most important in the world. The successful candidate will have a significant role in developing the Museum's research programs, and in building and maintaining its collections. The Museum is located in the center of Copenhagen, Denmark, and has close ties to the University of Copenhagen and other institutions in the region. The successful candidate will have a significant role in developing the Museum's research programs, and in building and maintaining its collections. The Museum is located in the center of Copenhagen, Denmark, and has close ties to the University of Copenhagen and other institutions in the region. The successful candidate will have a significant role in developing the Museum's research programs, and in building and maintaining its collections. The Museum is located in the center of Copenhagen, Denmark, and has close ties to the University of Copenhagen and other institutions in the region.
POSTDOCTORAL CANDIDATE POSITIONS

The Life Sciences Division at the Los Alamos National Laboratory is seeking Postdoctoral Candidates in the following areas:

**DNA Repair** - Member of a multidisciplinary team to study DNA damage and repair including work in mechanisms of repair of radiation-induced DNA double-strand breaks in mammalian cells. Research areas include regulation of DNA repair gene expression, recognition of DNA damage and signal transduction, identification of relevant DNA repair enzymes, cell cycle control responding to DNA damage, and development of in vitro DNA repair assays. Applicants should have a strong background either in protein purification and biochemical analysis or molecular biology techniques. For additional technical information, contact Dr. David J. Chen at (505)667-2789, email: dchen@telomere.lanl.gov. Advertisement #94088PD.

**Cell/Molecular Biology** - Investigate mechanisms regulating cell cycle progression. Research is focused on cyclin dependent kinases, their substrates, or molecules involved in their regulation. Experience in molecular biology and protein chemistry desired. For additional technical information, contact Dr. Joe D'Anna, (505)667-1636. Advertisement #94089PD.

**Neoplastic Transformation/Apoptosis** - Perform research in combining flow cytometric and molecular techniques for investigating the relationship between cellular senescence and apoptosis. Experience in mammalian cell biology and molecular biology highly desirable. For additional technical information, contact Dr. Paul Kraemer at (505)667-2794, email:kraemer@telomere.lanl.gov. Advertisement #94090PD.

**Cell/Molecular Biology** - Investigate oxidative stress-induced alterations in cell cycle progression. Research is focused on mechanisms involved in mediating cell cycle checkpintes. Experience in cell cycle regulation, protein chemistry and molecular biology highly desired. For additional technical information, contact Dr. Bruce E. Lefrert at (505)667-2753, email: lehnert@lanl.gov. Advertisement #94091PD.

**Cell Biology/Cytometry** - Perform research in the interface of cell regulation and DNA repair mechanisms using combined technologies of immunofluorescence cell staining, flow cytometry and image cytometry. Experience in mammalian cell biology, immunofluorescence and biochemical analysis of proteins highly desired. Training in image and flow cytometry is available. For additional technical information, contact Dr. Harry Crissman at (505)667-2791, email: crissman@telomere.lanl.gov. Advertisement #94092PD.

**Cell Biology/Chromatin Structure/Cytometry** - Perform research in mammalian chromatin structure using techniques of DNA fluorochrome binding, flow and image cytometry. Emphasis will be on the analysis of DNA damage and repair at the molecular and cellular levels. Experience in mammalian cell biology and with fluorochrome-labeling techniques and biochemical analysis of DNA required. Training in flow and image cytometry will be provided. For additional technical information, contact Dr. Harry Crissman at (505)667-2791, email:crissman@lanl.gov. Advertisement #94093PD.

A PhD completed within the last 3 years or soon to be completed is required. Annual starting salaries range form $41,250 to $44,570 plus an excellent and comprehensive benefits package. For consideration: submit TWO COPIES of a curriculum vitae and publication listing to Ms. Mary Anne With, MS P290, Advertisement #, Los Alamos National Laboratory, Los Alamos, NM 87545. Advertisement # must be referenced in address. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505)667-8622. A teletype Device for the Deaf (TDD) is available by calling (505)665-5357. Los Alamos National Laboratory is operated by the University of California for the US Department of Energy.
UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER
INSTITUTE FOR HUMAN GENE THERAPY
DIRECTOR
Vector Design and Production Facility
We are seeking a scientist with experience in virology and Good Manufacturing Practices (GMP) to direct the Human Applications Laboratory. This 3,000 net square feet facility specializes in the design of recombinant viruses for preclinical study and their production and characterization for clinical trials. This individual will supervise a staff of at least four research technicians. A Ph.D. in the biological sciences with relevant postdoctoral training and working knowledge of virology are required. Experience in a biotechnology/pharmaceutical company in the context of GMP is desirable.

Please send a cover letter and curriculum vitae to:
James M. Wilson, M.D., Ph.D.
Director, Institute for Human Gene Therapy
University of Pennsylvania Medical Center
Room 204 Wistar Institute
3601 Spruce Street
Philadelphia, PA 19104-4268
An Equal Opportunity/Affirmative Action Employer.

PLANT ECOLOGY FACULTY
The Department of Biology invites applications for a TENURE-TRACK POSITION. We seek an outstanding and creative undergraduate teaching position with normal faculty duties; research is encouraged. Qualifications: Applicants should have a Ph.D. or equivalent in plant ecology with the ability to teach for- eign, plant resources, plant demography, and/or restoration ecology. Applicants should have interest and excellence in undergraduate teaching and advisement, ability to lead students in undergraduate research and to write research proposals, and a strong background in remote sensing including GIS.

Complete applications consist of a letter of application addressing the above qualifications, curriculum vitae, unoffical transcripts and three letters of reference. Only complete applications received prior to application deadline will be considered. Applications should be sent to: Search Committee, Department of Biology, Lake Superior State University, Administrative Building, Sault Ste. Marie, MI 49783 or FAXED to: 906-635-2111. Inquiries to Kareli Rogers: 906-635-2267 or krogers@lakers.lsu.edu. Application deadline: February 20, 1995. An Equal Employment Opportunity/Affirmative Action Employer.

INVERTEBRATE BIOLOGY VISITING ASSISTANT PROFESSOR
The Biology Department, Hamilton College, invites applications for a one year visiting position at the ASSISTANT PROFESSOR level, effective 1 July 1995. Applicants must have a Ph.D. in the area of interest and the ability to teach at the undergraduate level. The college emphasizes interdisciplinary research and teaching. Areas of interest include: invertebrates, the upper animal phylogeny, cell biology, and the neural and endocrine systems. Experience with microscopes and computerized micrographs is essential. The department offers a highly competitive salary package and a comprehensive benefits program. Please submit letter of interest, curriculum vitae, and three letters of reference to: Dr. Andrew Nelson, Hamilton College, New York, NY 13326-1292. Review of applications will begin on 1 March 1995 and continue until the position is filled. Women and members of minority groups are encouraged to apply. Hamilton College is an Equal Opportunity/Affirmative Action Employer.

VISITING POSTDOCTORAL POSITION, 85% time, at an annual salary of $22,220 x 0.85 or $22,287, in mammary cancer research available immediately, to study biological and molecular events involved in mammary carcinogenesis employing mouse mammary tumor experimental systems. Studies will focus on determining phenotypic and genotypic changes which occur during the transition from normal mammary epithelial cells to preneoplastic and neoplastic phenotypes. Some experience in in vivo and in vitro mammary carcinogenesis and mouse mammary tumor models. The successful candidate will be a recent Ph.D. with experience in cell biology, cell culture and basic biochemical and molecular techniques. Please send curriculum vitae and references to: S. Nandi, Ph.D., Room 491, Cancer Research Laboratory, Department of Pharmacology and Molecular Biology, University of California, Berkeley, CA 94720-2751. An Equal Opportunity/Affirmative Action Employer.

POSIIONS OPEN

MOLECULAR IMMUNOLOGY JUNIOR OR SENIOR FACULTY
The Department of Microbiology and Immunology invites applications for a junior or senior level, TENURE-TRACK POSITION for an immunologist whose research has focused on cellular and molecular aspects of both the cellular and molecular basis of the immune response. Senior candidates should have strong records of research accomplishment with sustained program growth and development. Junior candidates will be expected to develop high quality, extramurally funded independent research programs with long-term growth potential. Teaching responsibilities will include undergraduate and graduate student supervision. The department offers a competitive salary, a highly interactive intellectual environment with appropriate resources, and a supportive and collaborative work environment.

Applications should be sent to: Dr. Matt Thomas, Department of Microbiology and Immunology, University of Pennsylvania, Philadelphia, PA 19104-6098.
The National Research Council (NRC) seeks a Director of Education Operations and Outreach. The Director will be responsible for overall planning and management of major portions of the NRC program of science and mathematics education reform. The Director will be responsible for all managerial, administrative, and financial affairs with authority for independent action in achieving program goals within institutional policy and in consultation with the NRC Executive Officer and NRC Chairman. The Director will: develop appropriate programmatic agendas and strategies to achieve program objectives; identify current and emerging issues to be addressed by NRC program activities; design program and study plans; seek and develop support for new and follow-up projects and studies; direct, review, and contribute to the writing of final reports and publications; plan and present orally research findings to sponsors and the broader professional/policy making community; oversee and coordinate the program’s technical, financial, reporting, and administrative operations; prepare financial plans and ensure compliance with the institutional policies and contract/grant requirements; develop and review budgets and monitor programs’ and projects’ general financial affairs. A Ph.D. or equivalent, preferably related to science, mathematics, engineering, science or mathematics education, and at least 6 to 10 years experience in related research, program evaluation, and policy analysis, including demonstrated responsibility for and success in project management is required. A qualified candidate will demonstrate scientific and technical expertise related to the program and knowledge of the scientific/technical community and will be widely recognized by senior experts within the field for scientific, technical and educational achievements. Demonstrated effective management skills including staff supervision, administration of program financing and budgets, organization of project assignments and tasks and oral/written communications is essential. Demonstrated knowledge of federal agencies related to unit’s activities and their procurement practices is highly desirable. Please submit a resume and salary requirements to: NRC/NRCEO (HA 450-DMG), 2101 Constitution Avenue, NW, Washington, DC 20418. EOE.
On 17 March, Science will publish a special advertising section titled Careers in Biotechnology and Pharmaceuticals: Beyond Discovery - Science Careers Up and Down the Production Stream. This is a popular annual advertising section dedicated to biopharmaceutical employment matters with bonus distribution to two U.S. job fairs, one on each coast. This section will explore the exciting next phase of the biotech industry. It will look at how the manufacturing, regulatory, and service sectors of the modern biopharmaceutical company are growing, and it will highlight career paths in areas such as:

- Clinical Trials
- Research and Development
- Regulatory Affairs
- Quality Assurance and Quality Control
- Production and Manufacturing
- Formulations and Chemistry
- Validation

Careers in Biotechnology and Pharmaceuticals: Beyond Discovery is a "must-read" section for scientists at every level. Don't miss this chance to be part of one of the biggest and most industry-relevant advertising sections of the year!

Job Fair Bonus Distributions
This highly visible issue will be distributed at two job fairs:
- Biotech/Pharmaceutical Job Fair, 24-25 March, La Jolla, California.
- Biotech/Pharmaceutical Job Fair, 28-29 April, Cambridge, Massachusetts.

Benefits of Full Page Advertisements
This section is an excellent opportunity for full page advertisers to get extra attention. Full page recruitment advertisements in the 17 March issue will receive placement throughout this career-related special advertising section. Names of the companies or institutions placing full page advertisements will be listed on an index affixed to the covers of the magazines distributed at the job fairs.

Advertising space reservation deadline: 28 February 1995

To advertise, call:
In the U.S., Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.
In Europe, Gordon Clark at (+44) 01223 302 067 or fax to (+44) 01223 302 068.
**Biodiversity Science and Policy**

An International Conference Examining Biodiversity Data, Interpretation, and Public Policy

March 9 - 10, 1995

Presented by the American Museum of Natural History's Center for Biodiversity and Conservation

**To register:** The conference is free of charge. For registration materials or further information, call 212-769-5192; e-mail CONFERENCE@AMNH.ORG; or write to the Biodiversity Conference, Center for Biodiversity and Conservation, American Museum of Natural History.

American Museum of Natural History
Central Park West at 79th Street, New York, NY 10024

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**The National Institutes of Health**
National Center for Human Genome Research

The intramural program of the National Center for Human Genome Research (NCHGR), the National Institutes of Health (NIH) in Bethesda, Maryland, is now in operation. Scientists with a unique range of expertise and interests have been recruited to focus on the identification, localization, diagnosis, and treatment of human genetic disease.

We are not actively recruiting a tenure-track scientist in the field of

**HUMAN AND MURINE GENOMICS**

for a position within the Laboratory of Genetic Disease Research. The successful applicant will be provided with the space and resources needed to pursue an independent research program in mapping, isolating, and characterizing genes involved in human and/or murine genetic disease.

Candidates must have a Ph.D. and/or M.D. as well as advanced training in genome science: demonstrable expertise in genetic and physical mapping and positional cloning in humans or mice.

Competitive salary and benefit packages are available. Please forward curriculum vitae and three references to:

Robert L. Nussbaum, M.D.
Chief, Laboratory of Genetic Disease Research
NIH/NCHGR
Building 49, Room 4A72
49 Convent Drive MSC 4470
Bethesda, MD 20892-4470

Closing Date: April 1, 1995
NIH is an Equal Opportunity Employer

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**Study Director Undergraduate Science Education**

The National Research Council seeks a Study Director for a multidisciplinary Committee on Undergraduate Science Education. The Committee is currently implementing programs and preparing reports that focus on improving scientific literacy for all undergraduates. The Director works with the Committee membership in planning initiatives and carrying out projects. The Director is responsible for research, data collection, analysis and dissemination; all administrative and logistical support of the Committee in meeting its objectives; management of the Committee's staff; working with all sectors of the undergraduate science community; public presentations of the Committee's work; liaison and cooperative programs with educational, scientific, and funding organizations at all levels; all aspects of fund raising and fiscal management; and working effectively with staff in other NRC and national education initiatives. Ph.D. or equivalent, preferably in physical or life sciences or education; and at least 4-5 years relevant experience including undergraduate teaching is required. An understanding of the different types of undergraduate institutions and approaches to teaching and learning is essential. Familiarity with federal agencies and private organizations engaged in the reform of undergraduate and precollege science education is desirable. Excellent organizational, interpersonal, writing, editing, and management skills are necessary. Applications will be accepted until February 28, 1995. Please submit resume and salary requirements to: NRC/CPSMA (NAS 285-NM), 2101 Constitution Avenue, NW, Washington, DC 20418. EOE.
POSTDOCTORAL POSITIONS

Two POSTDOCTORAL POSITIONS are available for molecular-cellular biologists to study G protein coupled signal transduction pathways in the CNS. The Molecular-Cellular Pathophysiology Program provides the opportunity to conduct exciting and imaginative cell and molecular biological research in the investigation of drug and disease induced neuroplastic changes, and the pathophysiology of neurodegenerative disorders. Position 1: Post-translational modification of proteins in the CNS. The successful candidate will have a Ph.D. in Biochemistry, Pharmacology, or a related discipline. Preference will be given to applicants with experience in protein phosphorylation, diphosphorylation, 2-D electrophoresis and lipid-protein interactions. Applicants must have completed an additional 12 month appointment at the discretion of the Department. A salary of $25,000 per annum, plus fringe benefits, is offered for this position. The appointment begins July 1, 1995. Applications (two letters of recommendation should be sent to: Dr. Steve Ward, Department of Anatomy, Northeastern Ohio Universities College of Medicine, PO Box 95, 4209 State Route 44, Rootstown, OH 44272. The deadline for applications is January 15, 1995. An Equal Opportunity Employer.

Two POSTDOCTORAL FELLOW POSITIONS are available to study nitric oxide and related oxidants in regulation of vascular tone and as modulators of tissue injury in inflammation. One requires background in oxidative biochemistry; the second requires background in molecular and cellular biology. Fellows will work within a multidisciplinary group of Ph.D. and M.D. researchers with experience in cell culture, cellular biochemistry, electrophysiology, ion channel physiology and pharmacology, and clinical investigations. Work is primarily with cultured endothelial cells and animal models but all avenues of productive investigation are available. Applications are for two to three years. Send letter, curriculum vitae, and three references to: Dr. James Royall/Dr. Stephen Lewis, Department of Pharmacology, University of Iowa, Iowa City, IA 52242. Telephone: 319-356-1615; FAX: 319-356-4855. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply.

POSTDOCTORAL POSITION available immediately to study the molecular and cellular biology of ionotropic glutamatergic receptors. A strong background in molecular biology (Ph.D. or M.D.) and experience in molecular biology and molecular and cellular cell culture is desired. Applicants must have good oral and written communication skills and have experience in in vitro systems. Applications (two letters of recommendation should be sent to: Dr. Alexander Sorkin, Department of Pharmacology, University of Colorado Health Sciences Center, 4200 East 9th Avenue, 80262. Telephone: 303-270-7707. The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity/Affirmative Action.

POSTDOCTORAL POSITION available immediately to study voltage-dependent ion channel gating and regulation. Research will be conducted using single-channel and macroscopic patch-clamp recordings and/or molecular biology. Applicants should forward curriculum vitae and three references to: Prof. A. Miller, Department of Physiology, University of California, Riverside, CA 92521. Telephone: 909-787-8866. The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSTDOCTORAL POSITION is available immediately to study the role of cellular growth factors in the control of cell survival, proliferation and neoplastic transformation, particularly through effects on stress proteins such as heat shock and ionizing radiation. Applicants will join a highly collaborative group studying molecular responses to cellular stresses such as heat shock, oxidant stress and radiation starting March 1, 1995. Applicants should have Ph.D./M.D. and proven expertise in the study of protein phosphorylation or transcriptional regulation. Please send curriculum vitae and three references (with telephone numbers) to: Drs. Mary Ann Stevenson and Stuart K. Calderwood, Dana Farber Cancer Institute and Joint Center for Radiation Research, Warren Building, 50 Binney Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE: Positions available immediately to help apply our findings from Desopha molecular genetics to the control of insect pest populations. Applicants must have a Ph.D. in molecular biology and experience with insect populations. Knowledge of insect system biology and pest management is also desirable. Applications should include a letter describing qualifications, three references and a brief synopsis of previous research. Send applications to: Prof. A. Miller, Department of Entomology, University of California, Riverside, CA 92521. Telephone: 909-787-8866. The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSTDOCTORAL POSITIONS

Two POSTDOCTORAL POSITIONS are available for molecular-cellular biologists to study G protein coupled signal transduction pathways in the CNS. The Molecular-Cellular Pathophysiology Program provides the opportunity to conduct exciting and imaginative cell and molecular biological research in the investigation of drug and disease induced neuroplastic changes, and the pathophysiology of neurodegenerative disorders. Position 1: Post-translational modification of proteins in the CNS. The successful candidate will have a Ph.D. in Biochemistry, Pharmacology, or a related discipline. Preference will be given to applicants with experience in protein phosphorylation, diphosphorylation, 2-D electrophoresis and lipid-protein interactions. Applicants must have completed an additional 12 month appointment at the discretion of the Department. A salary of $25,000 per annum, plus fringe benefits, is offered for this position. The appointment begins July 1, 1995. Applications (two letters of recommendation should be sent to: Dr. Steve Ward, Department of Anatomy, Northeastern Ohio Universities College of Medicine, PO Box 95, 4209 State Route 44, Rootstown, OH 44272. The deadline for applications is January 15, 1995. An Equal Opportunity Employer.

Two POSTDOCTORAL FELLOW POSITIONS are available to study nitric oxide and related oxidants in regulation of vascular tone and as modulators of tissue injury in inflammation. One requires background in oxidative biochemistry; the second requires background in molecular and cellular biology. Fellows will work within a multidisciplinary group of Ph.D. and M.D. researchers with experience in cell culture, cellular biochemistry, electrophysiology, ion channel physiology and pharmacology, and clinical investigations. Work is primarily with cultured endothelial cells and animal models but all avenues of productive investigation are available. Applications are for two to three years. Send letter, curriculum vitae, and three references to: Dr. James Royall/Dr. Stephen Lewis, Department of Pharmacology, University of Iowa, Iowa City, IA 52242. Telephone: 319-356-1615; FAX: 319-356-4855. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply.

POSTDOCTORAL POSITION available immediately to study the molecular and cellular biology of ionotropic glutamatergic receptors. A strong background in molecular biology (Ph.D. or M.D.) and experience in molecular biology and molecular and cellular cell culture is desired. Applicants must have good oral and written communication skills and have experience in in vitro systems. Applications (two letters of recommendation should be sent to: Dr. Alexander Sorkin, Department of Pharmacology, University of Colorado Health Sciences Center, 4200 East 9th Avenue, 80262. Telephone: 303-270-7707. The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity/Affirmative Action.

POSTDOCTORAL POSITION available immediately to study voltage-dependent ion channel gating and regulation. Research will be conducted using single-channel and macroscopic patch-clamp recordings and/or molecular biology. Applicants should forward curriculum vitae and three references to: Prof. A. Miller, Department of Physiology, University of California, Riverside, CA 92521. Telephone: 909-787-8866. The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSTDOCTORAL ASSOCIATE: Positions available immediately to help apply our findings from Desopha molecular genetics to the control of insect pest populations. Applicants must have a Ph.D. in molecular biology and experience with insect populations. Knowledge of insect system biology and pest management is also desirable. Applications should include a letter describing qualifications, three references and a brief synopsis of previous research. Send applications to: Prof. A. Miller, Department of Entomology, University of California, Riverside, CA 92521. Telephone: 909-787-8866. The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.
Postdoctoral Fellows

The Skin Biology Research Center of The R.W. Johnson Pharmaceutical Research Institute seeks candidates to join a group of scientists investigating the basic mechanisms underlying the structural and molecular biology of skin, scarring and hair growth. Scientists specifically interested in the biology of growth and development at the molecular level are encouraged to apply.

These positions provide liberal research support, excellent library facilities, and a good benefits package. Although outside grant support is not required, publication of experimental results is strongly encouraged.

Ours is a smoke-free workplace ideally located in central New Jersey, near Princeton and midway between New York City and Philadelphia. To apply, send your resume suitable for scanning into our state-of-the-art database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 171, Johnson & Johnson Recruiting, Employment Management Center, P.O. Box 16597, New Brunswick, NJ 08906-6597. An equal opportunity employer supporting diversity in the work place.

Johnson & Johnson

“Leadership Beyond Compliance”

Research Scientist

Bio-Rad Laboratories is a world leader in the fields of life science research products, clinical diagnostics and analytical instruments. Our continued growth has created a need for a dynamic scientific professional to work in our Lab Products Division.

The successful candidate will have a BS/MS or equivalent in a biological science with 2+ years laboratory experience. Must have good working knowledge of current methods of electrophoresis, chromatography and associated techniques including the analysis and purification of proteins and nucleic acids and isoelectric focusing.

For consideration, please send your resume to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 056, Hercules, CA 94547. An EEO/AA Employer.

Bio-Rad Laboratories
POSTDOCTORAL POSITIONS
MOLECULAR- AND IMMUNO-TOXICOLOGY MEDIATED BY THE Ah RECEPTOR

Three POSTDOCTORAL positions are available for individuals interested in studying the biochemistry and pharmacology of the Ah receptor. This position involves studies of the Ah receptor and its mechanism in the induction of drug-metabolizing enzymes. Interested individuals are encouraged to send their curriculum vitae, a statement of research interest, and three letters of reference to: Thomas A. Gasiewicz, Department of Environmental Medicine, University of Rochester Medical Center, Rochester, NY 14642, or Dr. Allen E. Silverstone, Department of Microbiology and Immunology, SUNY Health Science Center, 750 East Adams Street, Syracuse, NY 13210. The University of Rochester is an Equal Opportunity/Affirmative Action Employer. The SUNY Health Science Center at Syracuse is an Affirmative Action/Equal Employment Opportunity/ADA Employee, committed to excellence through diversity.

CLEVELAND CLINIC FOUNDATION
POSTDOCTORAL POSITION IN BIOCHEMICAL TOXICOLOGY

POSTDOCTORAL position is available to a candidate with experience in biochemical and molecular biology. This position is funded by a NSF grant for studies of novel drugs on synaptic transmission. Studies include developing primary neuronal culture and brain slices in conjunction with fluorescence microscopy and electrophysiology to study the mechanisms of action of these compounds. Ph.D. candidates should have experience in cellular and molecular biology, and a strong desire to pursue a career in research. Experience in one or more of the following is required: protein/DNA interaction, molecular biology, toxicology, genetics and biochemical methods. Send curriculum vitae and a letter of interest to: Mark D. Friedlander, Department of Toxicology, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

POSTDOCTORAL POSITION SYNAPTIC NEUROTRANSMISSION

A POSTDOCTORAL Position is available in CNS Disease Research to study effects of novel drugs on synaptic transmission. Studies include developing primary neuronal culture and brain slices in conjunction with fluorescence microscopy and electrophysiology to study the mechanisms of action of these compounds. Ph.D. candidates should have experience in cellular and molecular biology, and a strong desire to pursue a career in research. Experience in one or more of the following is required: protein/DNA interaction, molecular biology, toxicology, genetics and biochemical methods. Send curriculum vitae and a letter of interest to: Mark D. Friedlander, Department of Toxicology, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

POSTDOCTORAL POSITION TBP AND TAF STRUCTURE STUDIES

An NIH-funded POSTDOCTORAL POSITION is available to examine the role of the TATA-Box Binding Protein, TBP, and its associated TAFs proteins in transcription initiation, chromatin remodeling, and silencing in the Saccharomyces cerevisiae (see J. Biol. Chem., 269:23135, 1994; 269:28335, 1994 and Genes & Dev., 8:268, 1994). We are using a combination of genetic, biochemical, biophysical methods to study the interactions of these transcription factors. Interested parties should send a curriculum vitae and letters of reference to: Dr. Tony Wei, Department of Molecular Physiology & Biophysics, Vanderbilt University, School of Medicine, Nashville, TN 37232-0615. FAX: 615-322-7256/and twei@vanderbilt.edu. The University is an Equal Opportunity/Affirmative Action Employer.

LIMNOLOGIST/AQUATIC ENTOMTOLOGIST

AQUATIC TECHNICIAN

Two POSTDOCTORAL positions are available immediately for a two-year period at Archbold Biological Station. Limnologists at Archbold are interested in the role of aquatic systems in the regulation of biogeochemical cycling. This position involves studies of the role of aquatic systems in the regulation of biogeochemical cycling. This is an excellent position for individuals interested in environmental issues and aquatic biology. Send curriculum vitae to: Dr. Thomas Bancroft, Archbold Biological Station, P.O. Box 2057, Lake Placid, FL 33852. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN VIROLOGY

Susan Astrin, retroviruses: HIV-1, B-cell transformation; W. Thomas London, HBV: epidemiology, cancer, William Mason, hepatadnaviruses: persistence, pathogenesis; HCV: replication; John Pugh, hepatadnaviruses: initiation, replication, assembly; Maria Anna Skalka, retroviruses: integration, splicing, protease, John Taylor, hepatitis delta virus: replication, structure, metabolism; Philip Tsichlis, retroviruses: oncogene activation. The above virologists at the Fox Chase Cancer Center invite applications from recently awarded candidates seeking further training in virology. Send curriculum vitae and the names and addresses of three references by mail or Email to: Dr. John Taylor, Virology Postdoctoral Training Program, Fox Chase Cancer Center, Philadelphia, PA 19111-2497. Email: jtmayor@w470.fcc.edu. Fox Chase Cancer Center is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN TRANSGENIC MODELS OF HUMAN NEURODEGENERATIVE DISEASE

Our recent success at producing a transgenic model for hereditary spastic paraplegia (Science, 264, 1772, 1994) allows us to ask basic questions regarding the mechanism of pathogenesis. You can be a part of this effort if you have a Ph.D. degree in molecular biology or virology. Please send your curriculum vitae, recent reprints, and names of three references to: Dr. Mark Gurney, Department of Cell and Molecular Biology, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer.

POSTDOCTORAL POSITION IN BIOSURFACES

A position is open immediately for a qualified candidate to use AFM and SEM microscopies and various surface analytical techniques to study the mechanism of adherence of human pathogens to mucosal surfaces. Contact: Dr. Edward Sacher, Genie physique, Ecole Polytechnique, C.P. 07097 Suec, Centre Ville, Montreuil, France. FAX: 42-54-32-18; Email: sacher@phys.polytechni.ca.

POSTDOCTORAL SCHOLAR position available in biomedical research laboratory to study the genetics and function of immunity and molecular biology. Salary negotiable. Send curriculum vitae and letters of recommendation to: Dr. Neal Kay, University of Kentucky Medical Center, Department of Internal Medicine, Division of Hematology/Oncology, CC405 Markey Cancer Center, Box Rose Station, Lexington, KY 40536-0939 or FAX: 606-323-9880, FAX: 606-257-7178, Email: sacher@phys.polytechni.ca.

POSTDOCTORAL POSITION
TESTS ACE AND DEVELOPMENT

Department of Pathology
Emory University

An NIH-funded position is immediately available to study the mechanism of conversion of the ACE (angiotensin converting enzyme) expression by male germ cells. Developing germ cells express large amounts of a unique isozyme of ACE due to the recognition of a small tissue-specific, estrogen promoter (MC2, 18:11-27, 1993). The project is a wonderful opportunity to study tissue-specific gene expression. Applicants will be expected to work with graduate students and technicians and to take a substantial role in developing a program investigating the distinctive biochemistry of male germ cells. Experience in molecular biology and an interest is development of new research projects.

Send curriculum vitae, reprints and references to: Ken Bernstein, M.D., Department of Pathology, Emory University, Atlanta, GA 30322

Emory University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY

POSTDOCTORAL position available immediately to work on NIH-funded grants studying the molecular virology, herpessimplex virus latency and pathogenesis. Studies emphasize viral and cellular genes and proteins involved in HSV-1 latency, and in the establishment of and recovery from latency. Experience in molecular biology, or molecular/clinical virology (especially herpes viruses) is desirable. Highly competitive salary. Send curriculum vitae and names, addresses, and references to: Dr. Steven L. Wechsler, Director, Virology Research Laboratories, Davis Building, Room 5069, Cedars-Sinai Medical Center, Department of Medicine, PO Box 1611, Los Angeles, 90048-1869. FAX: 310-652-8411.

POSTDOCTORAL POSITIONS are available immediately to study the molecular mechanisms of herpes simplex virus pathogenesis and latency. Candidates with recent Ph.D. degrees are sought to join a well-funded multidisciplinary group examining the interaction of viral and cellular factors in the establishment of, and reactivation from latent infection in a murine model. Experience in one or more of the following is required: protein/DNA interaction, molecular virology, tissue specific gene expression, immunohistochemistry, and/or macromolecular and/or viral replication. A Ph.D. is required. Submit a curriculum vitae and three letters of reference to: Richard L. Thompson, Ph.D., Department of Molecular Genetics, Biocore Research and Development, University of Cincinnati School of Medicine, P.O. Box 670524, Cincinnati, OH 45267-0524, Telephone: 513-558-0063; FAX: 513-558-8474; Email: THOMPSON.1@UHCBE.SAN.US.CED.

POSTDOCTORAL and RESEARCHER POSITIONS are available immediately in structural studies of peptides and proteins. Postdoctoral applicants must have background in one of the following areas: (1) molecular modeling of protein and peptide structure and computer-aided drug design; (2) synthesis and structure of peptides and peptidomimetics. The Researcher position requires a Bachelor’s or Master’s degree. Knowledge in organic chemistry and protein synthesis is preferred. Competitive salary and benefits. Send curriculum vitae and arrange for three letters of reference to be sent to: Peter Zeichner, Ph.D., University of Cincinnati, Department of Pharmacology, Jefferson Cancer Institute, Thomas Jefferson University, Philadelphia, PA 19107. FAX: 215-923-3117; Email: macromolecules@uci.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN ANGIOTENSIN RECEPTORS

An NIH-funded position is immediately available to study the mechanism of sensing in gravitropism in Arabidopsis roots. Background in plant physiology, genetics, and/or molecular biology required. Send curriculum vitae and three letters of reference to: Fred Sack, Plant Biology, Ohio State University, Columbus, OH 43210. Telephone: 614-292-0896; FAX: 614-292-6282. Email: sacker@cdmr.ics.ohio-state.edu. Ohio State University is an Equal Opportunity/Affirmative Action Employer.
Molecular Dynamics has established a world-class reputation for innovation by giving researchers the advanced imaging capabilities they need for fast, accurate DNA and protein analysis. Now Molecular Dynamics and Amersham Corporation have formed the Vistra alliance to accelerate the pace of innovation in fluorescence. The following positions are available for candidates with experience and interest in these techniques.

**Product Manager**
You'll provide worldwide leadership in the generation of sales material, sales tools and training, product positioning, strategic planning, prioritizing R&D efforts, maintaining a competitive understanding for the Vistra DNA sequencer and Labstation. You'll need an MS in life sciences or equivalent, at least one year of experience in manual and automated DNA sequencing and template prep, 2 years in general molecular biology, and preferably experience in sales and/or marketing.

**Field Applications Specialists**
The people we seek will be responsible for instrument installation, customer training, and field applications support. Qualifications include BS/MS (life sciences), 2+ years of laboratory research experience in molecular biology or biochemistry, and enthusiasm for the opportunity to be an important player on our team; DNA sequencing a plus. You don't have to be a programmer, but computer skills (Windows and/or MAC) are important. F.A.S positions involve some long hours and lots of travel but are designed to be a training ground for our sales and marketing organizations—career opportunities only a fast-growing company can provide.

We offer a competitive compensation and benefits package, including sabbaticals, equity in the company, and the opportunity for you to make a difference in an environment that nurtures innovation and excellence.

Please send a letter of introduction and your resume to: John Gordon, V.P. Human Resources, Molecular Dynamics, 928 Argues Avenue, Sunnyvale, CA 94086 or FAX (408) 773-8343. We are an equal opportunity employer.
SANDOZ POSTDOCTORAL FELLOWSHIP IN MOLECULAR TOXICOLGY

The division of Pathology and Toxicology of the Ameri- can Health Foundation has an opening for a POST- DOCTORAL FELLOW for one or two years to study molecular mechanisms of toxicity in relation to their potential hazard to humans. The division has a broad-based program on chemical safety assessment involving research on pharmacology, toxicology, antioxidants, anti- estrogens and quinoline antibiotics. The laboratory utilizes in vivo, in vitro, biochemical and molecular techniques in these studies. The stipend for the fellowship is $25,000 or greater, depending upon qualifications. Candidate should be a highly qualified recent graduate with experi- ence in molecular techniques.

The American Health Foundation is a not-for-profit biomedica research organization with a staff of over 200 devoted to disease prevention. The laboratory of the Foundation is located on the campus of the New York Medical College, which is nearby to White Plains and convenient to New York City.

Inquiries should be addressed to:
Gary M. Williams, M.D.
Director of Medical Sciences
American Health Foundation
1 Dana Road
Valhalla, NY 10595
An Equal Opportunity Employer/Minorities/Female/Disabled/
ADA.

RESEARCH POSTDOCTORAL FELLOWSHIP

Yale University School of Medicine

Applications are invited for POSTDOCTORAL FEL- LOWSHIPS in the Section of Pulmonary and Critical Care Medicine of the Department of Internal Medicine at Yale University School of Medicine. Outstanding candi- dates with a Ph.D. or M.D. degree will be considered. Experience in molecular biology and cell biology is essen- tial. Experience in cytological biology, in vivo animal mod- eling, transplantation, and viral infections is also highly desirable. The chosen candidate(s) will work on ongoing research projects focused on molecular and cellular biology of cell biology of viral infections. Please respond with curricu- lum vitae and three letters of recommendation to: John A. Elias, M.D., Professor of Medicine, Chief of Pul- monary and Critical Care Medicine, Yale University School of Medicine, Section of Pulmonary and Criti- cal Care Medicine, Department of Internal Medicine, 333 Cedar Street, 105 LCI, New Haven, CT 06520-8087. Telephone: 203-785-4165; FAX: 203-785- 3826. Yale University School of Medicine is an Equal Opportu- nity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available for a recent Ph.D. trained in physical or biological oceanography, to participate in the IOPI Global Ocean Flux Arabian Sea project sponsored by the National Science Foundation. The research involves the seasonal variations in the biological and geo- chemical cycles under the strong monsoonal forcing. Data from Acoustic Doppler Current Profilers (ADCPs) will be used to describe seasonal and spatial variations in upper ocean currents and will be integrated with moored and ship-based observations from an 18 month program. Familiarity with ADPCPs and processing large quantities of data is preferred. Applicants should send a curriculum vitae and the names of three references to: Dr. Charles N. Flagg, Building 318, Department of Applied Sci- ence, Brookhaven National Laboratory, Associated Universities, P.O. Box 5000, Upton, Long Is- land, NY 11973-5000. An Equal Opportunity/Minority/ Female/Disabled/Veteran.


POSTDOCTORAL FELLOWSHIP

Molecular Genetics of Folate Transport

This research program prepares trainees to explore the mechanisms of transport and metabolism of antineoplas- tic drugs, natural folates and the role of deficiency states in mu- tagenesis and carcinogenesis. Training is within the con- text of research on the development and utilization of Med- ical Therapeutics Program of the Massey Cancer Cen- ter. Trainees are introduced to concepts in structure- based drug design and programs that encompass NMR, X-ray crystallography and molecular modeling. Trainees have access to a full range of Massy Cancer Center Shared Laboratory resources. There is an emphasis on research placement in positions in academics, government or research units of the pharmaceutical industry. Trainees participate in the development of new projects, and have an excellent record of peer-reviewed funding.

The program is funded through a Postdoctoral Train- ing Grant from NCI. Starting stipend is $25,000 per year. Contact: Dr. I. David Goldman, Director, Massey Cancer Center, Medical College of Virginia, Rich- mond, VA 23298-0230. Medical College of Virginia/Vir- ginia Commonwealth University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

FDA, Center for Biologics Evaluation and Research, Office of Vaccines Research and Review, Division of Bac- terial Products, Laboratory of Bacterial Toxins has imme- diate career opportunities for POSTDOCTORAL FELLOWS (one senior, one junior) to conduct research on bacterial toxins, toxoids, peptide and vectored vaccines, or immu- nity therapy. Current research areas include mechanism and function of toxins, toxins, and antibodies. Results must be used in the development of new products. Candidates with research interests in these and related areas are encouraged to apply; senior position may lead to tenured status. Candidates must have completed all requirements from an accredited institution for a doctoral degree. Candidates must be either U.S. citizens or resident aliens eligible for citizenship within four years. Laboratories are located on the National Insti- tutes of Health campus in Bethesda, Maryland. Salary range for candidates is from $28,000 to $62,293 per annum. Candidates should send a c.v., bibliography, statement of research interest, tran- scripts, and names of three references to: FDA/Center for Biologics Evaluation & Research, 1401 Rockville Pike, HFM-50 (146), Rockville, MD 20852-1448. FDA is an Equal Opportunity Employer and has a smoke-free environment.

CELLULAR/MOLECULAR PARASITOLOGY

UNIVERSITY OF WISCONSIN-MADISON

POSTDOCTORAL FELLOWSHIPS are available in parasitology. Training program includes a variety of course offerings in parasitology/tropical diseases, and exciting opportuni- ties in research on molecular parasitology, parasitology, vector biology, parasite biochemistry, neurobiology and physiology. For further information contact: Timothy F. Yoshino, Director, Cellular and Molecular Parasitology Training Program, Department of Pathobiological Sciences, University of Wis- consin-Madison, 2015 Linden Drive West, Madison, WI 53706. An Equal Opportunity/Minority/Affirmative Action Employer. Women and minorities are encouraged to apply. U.S. citizenship or permanent residency required.

RESEARCH FELLOWSHIPS

Investigative and Molecular Dermatology

The Skin Diseases Research Center at Case Western Reserve University (MDR/CWRU) offers a POSTDOCTORAL PROGRAM for those with an M.D. or Ph.D. degree contemplating an academic career in dermatolog- ical research. Special expertise and research areas of our program faculty include: immunodermatology, molecu- lar and cellular biology, photodermatology and photo- medicine, skin pharmacology and skin carcinogenesis and dysplasia. The program is supported by an NIH training grant. For more information, send cur- riculum vitae and letter of interest to: Dr. C. Buffy, Case Western Reserve University, Department of Dermatology, CWRU, 2074 Abing- ton Road, Cleveland, OH 44106. Telephone: 216- 368-7277. Fax: 216-368-7220. An Equal Opportunity/Minority/Affirmative Action Employer. Candidates must be U.S. citizens or permanent residents.

RESEARCH ASSOCIATE

A Research Associate position is available immediately to study the molecular biology of polyadenylation in mammalian systems. A thorough knowledge of the techniques of molecular bi- ology as well as the interactions of proteins with nucleic acids is required. The position is full time or part time and is funded by the NIH. Send curriculum vitae and letters of recommendation to: Dr. G. Marder, University of Pennsylvania, Philadelphia, PA 19104. Telephone: 215-898-1998; FAX: 215-573-2015. Email: cren- shaw@mail.med.upenn.edu.

RESEARCH ASSOCIATE

A Research Associate position is available immediately to study the molecular biology of polyadenylation in mammalian systems. A thorough knowledge of the techniques of molecular biology as well as the interactions of proteins with nucleic acids is required. The position is full time or part time and is funded by the NIH. Send curriculum vitae and letters of recommendation to: Dr. G. Marder, University of Pennsylvania, Philadelphia, PA 19104. Telephone: 215-898-1998; FAX: 215-573-2015. Email: cren- shaw@mail.med.upenn.edu.
FACULTY POSITION IN NMR SPECTROSCOPY

The University of Texas Medical Branch • Galveston, Texas

Continuing development of Structural Biology at UTMB leads to an additional junior, tenure-track faculty position in the area of application of Nuclear Magnetic Resonance (NMR) to solving structures of biological macromolecules. The University of Texas Medical Branch has made a major commitment to create a strong Structural Biology Program on campus to enhance our existing capabilities. The NMR facility, directed by Dr. David Gorenstein, consists of new 400 and 600 MHz Varian spectrometers with a 750 MHz instrument contracted for delivery in January 1985. Endowed foundations, the Medical Branch and NIH funding have provided excellent equipment, a newly renovated facility, and ample additional space in support of Structural Biology. The Unit consists not only of NMR spectroscopists, but also other disciplines relevant to Structural Biology, including computational chemistry and x-ray crystallography.

The successful candidate must have outstanding potential for independent research and record in the field of NMR; will be expected to attract funding from national agencies and to fully participate in graduate education at the departmental level. Affiliation with the Sealy Center for Molecular Science or other relevant academic departments will be available.

Applications should include a complete curriculum vitae, a summary of research interests and names and addresses of at least three references. Review of applications will continue until the position is filled. Applications should be addressed to:

Dr. James C. Lee
Structural Biology Search Committee
Department of Human Biological Chemistry and Genetics
The Sealy Center for Molecular Science
University of Texas Medical Branch • Galveston, Texas 77555-1055

UTMB is an equal opportunity affirmative action employer M/F/D/V. UTMB is a smoke-free, drug-free workplace. UTMB hires only individuals authorized to work in the United States.

DEAN OF THE COLLEGE OF ENGINEERING

Applications are invited for the position of Dean of the College of Engineering at the University of California, San Diego. The appointment will commence June 1, 1985 or as soon as possible thereafter.

The University

The James B. Francis College of Engineering at the University of Massachusetts Lowell traces its origins to 1895, with the founding of the Lowell Textile School. Through 100 years of growth and development, the fundamental purpose of the school has remained constant: to prepare men and women for their entrance into the engineering profession, providing the leading industries in our region with skilled technical professionals, and to foster new technologies and disseminate them to industry.

The College

The College consists presently of seven departments: Chemical and Nuclear, Civil, Electrical, Engineering Technology, Mechanical, Plastics, and Work Environment. It is also home to several interdisciplinary research centers and laboratories and will have substantial connections to the newly created Institute for Massachusetts Engineering and Commercialization of Technology (IMPACT). The College has several unique strengths, including plastics engineering and environmental/work environment programs. The Position

The primary role of the Dean of the College is to foster excellence in teaching, research and service by example and through the exercise of vision and leadership. He or she must demonstrate a commitment to quality undergraduate and graduate programs and a record of developing, planning and evaluating these programs in accordance with ABET guidelines. In addition, he or she will also contribute to the development of new programs as part of an engineering—applied science—management continuum and to initiatives designed to recruit and retain minorities and women. To expand the College’s already strong relationship with industry, the Dean must demonstrate the ability to represent the College effectively in interactions with the public and private sectors and to articulate the College’s goals and plans to a variety of constituencies. Ultimately, the Dean will guide the College toward meeting the University’s goal: that each department in the College be ranked in the top quartile for engineering schools.

Qualifications

The Dean must have a distinguished academic and research record and experience and knowledge of the national research and funding environment, as well as a record of excellence in academic administration.

Salary

The salary is highly competitive with excellent fringe benefits.

The Application

Screening of applicants will begin mid-January and continue until the position is filled. The application should consist of: i) a letter of application including discussion of educational and administrational philosophy and vision; ii) a curriculum vitae; iii) official copy of doctoral transcript; iv) a list of 6 references, (names, addresses and telephone numbers).

Applications must be addressed to: Dr. Janice M. Stecchi, Co-Chair, Search Committee for Dean of College of Engineering, College of Health Professions, University of Massachusetts Lowell, One University Avenue, Lowell, MA 01854; Tel: (508) 934-4491; FAX: (508) 934-3006; Email: stecchi@woods.uml.edu The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX, IV, ADA 1990 employer.
ASSOCIATE DIRECTOR
MATTHAEL BOTANICAL GARDENS
University of Michigan

The University of Michigan’s Matthaei Botanical Gardens invites applications for the position of Associate Director. The Associate Director provides the ongoing administrative supervision to the programs of education, research and public outreach. Preference will be given to candidates with demonstrated management skills including supervision of budgets and personnel, an understanding of the business operations of a research university, and advanced training in the plant sciences; Ph.D. preferred. A familiarity with issues of biodiversity, conservation and horticulture is necessary. The position is available immediately and applications will be accepted until the position is filled. Applicants should send a curriculum vitae, statement of interest, and names and telephone numbers of four references to:
Dr. J. A. Teerl, Department of Biology, Natural Science Building, University of Michigan, Ann Arbor, MI 48109.

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

Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 1995 for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, and tumor immunology. Training is available in recombinant DNA technology, gene expression, DNA replication, mutagenesis, regulation of cellular proliferation, growth factors, molecular immunology, molecular genetics of cancer, and combined programs. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.


Candidates must be U.S. citizens or permanent residents. To send for an informational brochure or to apply, with curriculum vitae, three letters of recommendation, a statement of research interests and graduate school records, write to:

Joseph S. Pagano, M.D.
CB# 7295
UNC Lineberger Comprehensive Cancer Center
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 2759-7295

UNC’s Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.

The Extracellular Matrix in Invasion, Metastasis, and Angiogenesis
Friday, March 10, 1995
MAYER AUDITORIUM
University of Southern California Health Sciences Campus

Program

Welcome
PETER A. JONES, PhD
University of Southern California

Introduction
YEVS A. DE CLERCK, MD
University of Southern California

ERKKI RUOSLAHTI, MD
La Jolla Cancer Research Foundation

Integrins as Signaling Molecules in Cell Proliferation, Migration, and Apoptosis
DAVID A. CHERESH, PhD
The Searls Research Institute

Role of Integrin αβ in Angiogenesis of Human Tumors
LYNN M. MATRISIAN, PhD
Vanderbilt University

Metalloproteases in Tumor Progression
BONNIE F. SLOANE, PhD
Wayne State University

Symposium organized by USC/Ampgen Inc.
No registration fee • Information: (213) 746-0816

Cancer Genetics and Tumor Suppressor Genes
June 14-17, 1995
Hood College
Frederick, Maryland

Organized by
Stephen H. Friend
Harvard Medical School

Associate Organizers
E Fearon, E Harlow, B Ponder
G Vande Woude, B Vogelstein

Emphasis will be placed on cancer genetics and tumor suppressor genes. Graduate students and postdoctoral fellows are encouraged to attend. The format will consist of oral and poster presentations with overviews given by distinguished leaders in the field. This meeting presents an exciting new forum for young investigators to present and discuss their research - please plan to attend.

Registration (including housing and meals) is $550.00 US. Abstract submittal deadline is April 7, 1995.

For details, please contact:
Margaret L. Fanning
Conference Office, FACS
P.O. Box 249 • 12120 Main Street
Libertytown, Maryland 21762
301-898-9266 • FAX 301-898-9173
NEW ENGLAND BIOLABS

New England Biolabs, Inc., a world leader in the production of restriction endonucleases and other related products for the recombinant DNA field, is seeking applicants for:

Protein Engineering - A Postdoctoral level scientist to study the structure/function of restriction enzymes, including mutagenesis of their DNA recognition elements and the active site. Group Leader: Paul Riggs, Ph.D.

Molecular Biology or Biochemistry - A Postdoctoral level scientist for experiments involving cloning and high levels of expression and mutagenesis of restriction and modification enzymes. Group Leader: Donald Nwankwo, Ph.D.

Program Coordinator, Marketing Department - An individual educated in some aspect of the life sciences to manage our rapidly growing national freezer program. Candidate should be a team player, comfortable with Macintosh based computer systems, be able to maintain an integrated database, be dedicated to excellence in customer service, be an effective, enthusiastic communicator, and act as a liaison between the Marketing Dept. and the Customer Service Group. Some travel will be required. Group Leader: Peter Nathan, Ph.D.

Interested candidates should submit a resume with three references to the respective group leader.

In addition to a competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915-5510
An Equal Opportunity Employer

NEW ENGLAND BIOLABS®

Help Deliver A New Era In Pharmaceuticals.

Since 1888, Abbott has been at the forefront of discovery in the health care industry. Last year alone, we committed $881 million to R&D to answer some of today's most important scientific questions. As we continue our work, our Pharmaceuticals Division has the following outstanding opportunity available.

Pharmacology Research Associate

You will perform in vitro metabolism studies and elementary pharmacokinetic studies on rats, assist in small animal surgery, and analyze metabolism and pharmacokinetic samples by HPLC. You will also process data on a PC and write study reports for project teams.

We prefer an MS in Biological Science or a BS plus 2 years of postgraduate experience. We also require background in metabolism or biochemistry.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area, approximately 30 miles north of Chicago. For confidential consideration, please send a resume and salary history to: Alison Burke, D-583, AP6B, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064, Job #HN60029. Abbott is an Affirmative Action/Smoke-Free Employer.

ABBOTT LABORATORIES

Quality Health Care Worldwide Since 1888

Experience The Abbott Edge.

DEVELOPMENTAL ENDOCRINOLOGIST/REPRODUCTIVE PHYSIOLOGIST

(Reproductive and Developmental Toxicology)

The Chemical Industry Institute of Toxicology (CIIT) is seeking a Scientist to join the research staff in an emerging program to investigate the potential biological effects of chemicals on endocrine homeostasis. Qualified individuals need to have a doctorate degree in a research area with emphasis on reproductive and/or developmental endocrinology with at least three years of postdoctoral research experience. It is also advantageous to have research interests in the general area of receptor mediated events in hormonally controlled processes using contemporary techniques.

Ongoing research programs at CIIT include carcinogenesis, respiratory toxicology, neuro- and developmental toxicology, with emphasis on mechanistic studies using an interdisciplinary research approach directed towards a better understanding of human health risks posed by exposure to chemicals. CIIT has a well-established postdoctoral training program, and there are excellent opportunities for interaction with nearby outstanding universities and federal government laboratories.

CIIT is an independent, not-for-profit research institute. The institute is located in Research Triangle Park, NC, which offers many cultural and recreational activities. We offer competitive salary and benefits, and a stimulating work environment.

Interested applicants should submit a curriculum vitae with the names of three professional references, representative reprints and summary of research interests to: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

CIIT is an Equal Opportunity Employer (M/F/D/V)
MRC Group in Protein Structure and Function, Faculty Position in Protein Chemistry

The Medical Research Council of Canada Group in Protein Structure and Function at the University of Alberta invites applications for membership in the Group and an associated Faculty position in the Department of Biochemistry. Applicants should have a strong background in protein chemistry and will be expected to develop a research project that will complement and contribute to the overall research efforts in the Group. Some areas currently under investigation by the Group include: chemistry and structure of contractile proteins of both muscle and non-muscle systems and the molecular mechanism by which calcium triggers muscle contraction; structure-function relationships of calcium binding proteins; mechanistic studies of seryl and aspartyl proteinases, and of lipases, thioesterases, and esterases; and protein phosphatases as intracellular targets for tumor promoting toxins. Preference in the selection process will be given to those individuals who have a background in physical biochemistry with particular emphasis on spectroscopic and hydrodynamic approaches for the investigation of structure-function relationships in protein systems. Appointments can be made at any level from Assistant to Full Professor depending upon the qualifications. Current salaries for Assistant Professor (Min. $39,230); Associate Professor (Min. $48,572); and Professor (Min. $60,355).

The MRC Group in Protein Structure and Function was established in 1974 and has undergone three successful renewals. The major techniques of protein science used by the group members include: hydrodynamic and spectroscopic methods, nuclear magnetic resonance, spectroscopy, X-ray crystallography, solid phase synthesis of peptides, recombinant DNA technology and protein engineering. There is also a close association of the MRC Group with the Alberta node of the Protein Engineering Network Centre of Excellence (PENCE). In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The deadline for receipt of applications is March 30, 1995. Applicants should forward curriculum vitae, list of publications and names of three referees as soon as possible to:

Professor Brian D. Sykes
Department of Biochemistry
University of Alberta
Edmonton, Alberta, Canada T6G 2H7

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.
The 10 March issue offers three special advertising opportunities!

- Special molecular biology cover story.

- Bonus distribution to scientists attending the American Association of Cancer Research meeting, 19-21 March in Toronto, Canada.

- Bonus distribution to USGEB (Union of Swiss Societies of Experimental Biology), 30-31 March in Fribourg, Switzerland.

Recruitment Advertising Space Reservation Deadline: 21 February

To advertise, call:
In the U.S., JanisCrowley phone (212) 496-7704, fax (202) 682-0816.

In Europe, Gordon Clark phone (44) 01223 302067, fax (44) 01223 302068.
Monsanto Company
Postdoctoral Positions

The New Products and Produce Divisions of Monsanto Agricultural Group have several postdoctoral positions available for highly motivated individuals to conduct research in diverse areas of crop protection and improvement.

Study of genes involved in seed development and germination. This position requires experience in molecular biology with additional expertise in plant physiology and biochemistry (Job#NPD1).

Study of DNA recombinases for site-specific integration of DNA into plant chromosomes. This position will be used to study gene regulation in plants. This position requires experience in molecular biology (Job#NPD2).

Molecular biology of herbicide resistance. The successful candidate will investigate genes conferring resistance to Monsanto’s Roundup® herbicide. Experience in molecular biology with knowledge of biochemistry is preferred (Job#NPD3).

Production of novel polymers of industrial importance in plants. This position requires experience in molecular biology with knowledge of biochemistry (Job#NPD4).

Improvement of vegetable and fruit crops through biotechnology. i. The successful candidate will study carbon metabolism in plants. Experience in plant physiology is required. ii. The successful candidate will investigate plant metabolism and gene expression. Experience in molecular biology with knowledge of biochemistry is preferred (Job#NPD5).

Disease resistance. i. The successful candidate will investigate expression of genes induced by fungal pathogens in crops. Experience in molecular biology and plant-pathogen interactions is required. ii. The successful candidate will work on a project to introduce resistance to viral pathogens in crops. Experience in molecular biology is required (Job#NPD6).

Insect control. The successful candidate will conduct mode of action studies and basic research to complement discovery work on insecticidal proteins. Experience in biochemistry or related discipline required. Experience in membrane biochemistry or protein toxins is desirable (Job#NPD7).

Nitrogen metabolism. The successful candidate will investigate enzymes involved in nitrogen metabolism in plants. Experience in biochemistry is required. Knowledge in plant physiology and/or molecular biology would be desirable (Job#NPD8).

Crop transformation. The successful candidate will have demonstrated expertise in plant regeneration and transformation (Job#NPD9).

Monsanto Agricultural Group is a world class organization with strong commitment to the improvement of crops through biotechnology. The qualified individuals will join scientists with expertise in plant biochemistry, molecular biology, tissue culture and transformation to develop products that provide value to agriculture worldwide.

Monsanto is an equal opportunity employer. We offer competitive salaries and a comprehensive benefit package.

Applicants should submit a letter indicating the position applying for along with curriculum vitae and three names of references to: Ms. Barbara Schiermeyer, New Products Division BB3B, The Agricultural Group, Monsanto Company, 700 Chesterfield Village Parkway, St. Louis, Missouri 63198.

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SCIENCE:
The Recruitment Advertising Leader.

With over 162,000 subscribers worldwide, SCIENCE reaches the largest number of qualified candidates with your recruitment message. To advertise, contact:

U.S.: Call Janis Crowley at (212) 496-7704, or fax to (202) 682-0816.

Internet Address: science_classifieds@aaas.org

Europe: Call Gordon Clark at (+44) 01223 302067, or fax to (+44) 01223 302068.

Australia: Call Keith Sandell at (+61) 02 922 2977, or fax to (+61) 02 922 1100.

Japan: Call Masahiro Yoshikawa at (+81) 3 3235-5961, or fax to (+81) 3 3235-5852.

---

Science Advertising Calendar of Events

Mark Your Calendar for These Exciting Advertising Opportunities

10 February
Bonus Distribution to the AAAS Annual Meeting in Atlanta, Georgia, 17-20 February 1995. Over 3,500 scientists from around the globe will attend.

24 February
Special Advertising Section, Euroscience at Work: Career Opportunities in European Biotechnology and Pharmaceuticals.

SCIENCE explores the life sciences career market in Europe and tells readers where to find the best career opportunities.

3 March
Bonus Distribution to the Biotechnology/Pharmaceutical Job Fair, 10-11 March, New Jersey. Bonus Distribution to the American Physical Society meeting, 22-24 March, San Jose, California.

10 March
Editorial Focus, Molecular Biology: Cellular Regulation I. Bonus Distribution to attendees at the American Association for Cancer Research meeting, 19-21 March, Toronto, Canada.

17 March
Special Advertising Section, Careers in Biotechnology and Pharmaceuticals: Manufacturing & Regulatory Affairs.

Bonus Distribution to two Biotechnology/Pharmaceutical Job Fairs:
24-25 March, La Jolla, California and
28-29 April, Cambridge, Massachusetts.

24 March
Bonus Distribution to the American Chemical Society, 3-5 April, Anaheim, California.

31 March
Editorial Focus, Frontiers in Materials Science.

Bonus Distribution to the Materials Research Society meeting, 18-20 April, San Francisco, California.

For Recruitment Advertising:
Call (202)326-6541, FAX (202)682-0816.

Recruitment Advertising Internet: science_classifieds@aaas.org

For Product Advertising:
Call (202)326-6542, FAX (202)682-0816.
GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS, ENERGY AND GLOBAL ENVIRONMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, has been carrying out an International Joint Research Program since 1988. This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research. In addition to supporting international joint research teams which conduct original and innovative basic research in the materials area, international joint research teams which conduct research in the energy area and the global environmental area will be provided with grants in FY 1995. The program in the global environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Research grants will be provided to "International Joint Research Teams" which fulfill the following main requirements:
1. Each team, in principle, must be composed of four or more researchers;
2. Each team must consist of researchers of two or more different nationalities;
3. The research organizations where the team members' major activities take place must be located in two or more countries.
4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator must be responsible for accounting matters and function as the liaison between the team and NEDO. The accounting coordinator's organization and research site must be located in Japan, and he/she must be able to communicate with NEDO in Japanese about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

FY 1995's program is shown below.

<table>
<thead>
<tr>
<th>Research Area</th>
<th>Field of Research</th>
<th>Amount of Each Grant</th>
<th>Number of Themes to be Adopted</th>
<th>Recipients of Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>1) Basic research concerning the investigation and elucidation of materials</td>
<td>about 30,000,000 yen in FY 1995</td>
<td>5 themes</td>
<td>NEDO (Note a.)</td>
</tr>
<tr>
<td></td>
<td>2) Basic research concerning the practical use of materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Practical research on electric power generation technologies using oil-alternative energy, on load leveling technologies and on global environment conservation related to such technologies.</td>
<td>about 30,000,000 yen in FY 1995</td>
<td>4 themes</td>
<td></td>
</tr>
<tr>
<td>Global Environment</td>
<td>(Basic research) on conservation and improvement of the global environment.</td>
<td>about 24,000,000 yen in FY 1995</td>
<td>2 themes</td>
<td>RITE (Note b.)</td>
</tr>
<tr>
<td></td>
<td>(Practical research) concerning the production, generation and use of oil-alternative energy (excluding electric power generation technologies) which contributes to the conservation and improvement of the global environment.</td>
<td>about 30,000,000 yen in FY 1995</td>
<td>1 theme</td>
<td></td>
</tr>
</tbody>
</table>

(Recipients of applications)

Note a. Materials and Energy area
International Joint Research Division,
Industrial Technology Department
New Energy and Industrial Technology Development Organization (NEDO)
Address: PO Box 1151, 29F, Sunshine 60 Bldg.
3-1-1 Higashi-Ikebukuro, Toshima-ku,
Tokyo, 170 Japan
Phone No.: 81-3-3987-9357
Telefax No.: 81-3-3981-1536

Note b. Global environment area
Research Proposals Reception Section,
Research Planning Department
Research Institute of Innovative Technology for the Earth (RITE)
Address: 9-2 Kizugawadai Kizu-cho Soraku-gun,
Kyoto, 619-02 Japan
Phone No.: 81-774-75-2302
Telefax No.: 81-774-75-2314

Please be informed that the amount of each grant and the number of themes to be adopted may be changed, and that this grant program is subject to government budget approval. A research team may submit an application a maximum of two times for a grant on the same subject.

The application period is from January 26, 1995 to April 26, 1995.
No applications will be accepted later than April 26th.

ATTENTION: If there are some discrepancies in a submitted application, for example, it does not follow the Application Guidebook or the research contents are different from the proposed research area, it will be considered invalid.
THE 1996 KING FAISAL INTERNATIONAL PRIZE FOR SCIENCE

(BIOLOGY)

INVITATION TO NOMINATE

The General Secretariat of the King Faisal International Prize is pleased to invite universities, scientific societies, research centres, and other learned circles throughout the world to nominate qualified candidates for the above Prize. Nominations will not be accepted from individuals or political parties.

Nominated work must:

a) be published and original;

b) represent a contribution of the highest distinction in the Prize category;

c) benefit mankind and advance scientific knowledge;

d) not have been awarded another international prize.

Nominations should include:

a) an official letter of nomination detailing the scientific justification for the nomination;

b) a typed CV detailing the nominee's academic background and experience, and listing all published works;

c) six (6) copies of each nominated work (no nomination works will be returned);

d) three (3) recent colour photos;

e) full contact details.

The above information must be received by The King Faisal International Prize no later than 1 September 1995.

The decision of the Prize's Selection Committee is final.

Winners will be announced in February 1996 and will receive the Prize at an official ceremony later in the year.

Each winner receives:

• An abstract of his/her winning work, written in Diwani calligraphy and presented in a leather folder;

• A commemorative 22-carat, 200 gram gold medallion;

• SR350,000 (approximately US$93,000). Joint winners in any category share the cash prize.

Nominations should be sent by registered airmail to:

The General Secretariat
The King Faisal International Prize
P.O. Box 22476
Riyadh 11495
Saudi Arabia

Telephone (966) (1) 465-2255
Fax (966) (1) 465-8685
Telex 404667 PRIZE SJ
Cable JAEZAH

CENTRE FOR NATURAL PRODUCT RESEARCH
INSTITUTE OF MOLECULAR AND CELL BIOLOGY

The Centre for Natural Product Research, located within the Institute of Molecular and Cell Biology of the National University of Singapore, represents a major new initiative in drug discovery. Jointly funded by Glaxo, the Singapore Economic Development Board and the IMCB, the Centre operates and develops high throughput screens in the search for lead compounds from biological sources. To strengthen our team, we wish to recruit motivated individuals with a proven track record of scientific achievement, good communication skills and ability to function in a multi-disciplinary setting.

MYCOLOGIST

We are looking for a candidate with experience in fungal physiology and taxonomy to provide directions for the microbial group in isolation and cultivation of fungi for screening. The nature of the work requires a broad-based working knowledge of preferably tropical fungi and technical expertise in media design and fermentation optimisation.

BIOCHEMIST AND MOLECULAR/CELL BIOLOGIST

We need scientists trained in biochemistry, molecular or cell biology to collaborate with researchers in specific disease areas to identify targets and to develop high-throughput biological screens. Relevant working experience in drug discovery programmes is essential for these positions.

NATURAL PRODUCTS CHEMIST

We want to recruit a chemist who will be responsible for the isolation and characterisation of biologically active compounds from plant and microbial sources. The work involves interacting closely with the sample supply and screening groups to ensure the successful progression of bioactive leads. Familiarity with high-throughput screening would be advantageous.

All these positions require a PhD degree and offer excellent opportunities for career and personal development. We offer competitive terms of employment. For consideration, please send your curriculum vitae to:

Head
Centre for Natural Product Research,
Institute of Molecular and Cell Biology
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511
Tel: 65-7726824 Fax: 65-7791117

SCIENCE

Advertising Supplement

Euroscience at Work: Career Opportunities in European Biotechnology and Pharmaceuticals

24 February 1995

Euroscience at Work examines the European life science job market. A practical career planning section for life scientists, Euroscience at Work looks at how pharmaceutical companies are adapting to the changing European market and gives an overview of the expanding European biotechnology industry.

Full page recruitment advertisements receive placement throughout this special advertising section. Fractional ads will be highlighted by a new Global Career Opportunities banner in the regular recruitment section of the issue.

Recruitment Advertising Space Reservation Deadline: 7 February 1995

To advertise, call:

In Europe, Gordon Clark
phone (44) 01223 302067,
fax (44) 01223 302068.

In the U.S., Janis Crowley
phone (212) 496-7704,
fax (202) 682-0816.

Glaxo

Founded 1905

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Applications are invited for appointments as Junior Research Fellows, Research Fellows and Principal Investigators.

The Institute for Molecular Agrobiology (IMA) was recently established by the National Science and Technology Board under the parentage of the National University of Singapore. Its mission is:

To spearhead agricultural research at the genetic and molecular levels to establish Singapore as a world-class centre for agrotechnology industries.

The Institute wishes to set up about 20 independent laboratories focusing on, but not limited to, the following research areas:

<table>
<thead>
<tr>
<th>Plant Cell Biology</th>
<th>Fish Immunology</th>
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<tbody>
<tr>
<td>Plant Developmental Biology</td>
<td>Mechanisms of Pathogenesis in Fish</td>
</tr>
<tr>
<td>Viral, Bacterial and Fungal Pathogens of Plants</td>
<td>Animal Cytokines</td>
</tr>
<tr>
<td>Defense Mechanisms of Plants</td>
<td>PoXviruses and Insect Viruses</td>
</tr>
<tr>
<td>Yeast Molecular Genetics</td>
<td>Genome Analysis</td>
</tr>
<tr>
<td>Fish Developmental Biology</td>
<td>Mechanism of Pathogenesis in Animals</td>
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</tbody>
</table>

Gross annual emoluments range as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Research Fellow (Doctoral Student)</td>
<td>S$ 18,570 - 35,970</td>
</tr>
<tr>
<td>Research Fellow (Postdoctoral Fellow)</td>
<td>S$ 55,910 - 71,400</td>
</tr>
<tr>
<td>Principal Investigator</td>
<td></td>
</tr>
<tr>
<td>Senior Scientist</td>
<td>S$ 65,200 - 122,820</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>S$108,820 - 151,480</td>
</tr>
</tbody>
</table>

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

Principal Investigators who will be heads of independent laboratories will be appointed at the rank of Associate Professor or Senior Scientist (equivalent to Assistant Professor), depending on experience. Teaching responsibilities are modest and limited to graduate level. Investigators using innovative approaches to explore the mechanisms of basic biological processes in model organisms (e.g. Arabidopsis and zebrafish) are encouraged to apply.

Depending on qualification and seniority, Principal Investigators may be provided with up to 5 fully funded postdoctoral positions.

Applications for positions of Principal Investigators should include a copy of the curriculum vitae, a brief description of past research experience and accomplishments, the proposed research programme at IMA and names of three to five referees and those for positions of Research Fellows and Junior Research Fellows should include a copy of the curriculum vitae along with the names of three referees. Junior Research Fellows are expected to enroll in the University’s PhD programme.

Applications should be sent to the following address: The Acting Director, The Institute for Molecular Agrobiology, c/o Dean’s Office, Faculty of Science, National University of Singapore, Lower Kent Ridge Road, Singapore 0511

Enquiries may also be sent through INTERNET to: zoikhw@nus.sg, or through Telefax: (65) 7774279
Senior Lectureship/Lectureship in Oral Biology

Applications are invited for a newly created Senior Lectureship (Non-Clinical)/Lectureship (Clinical/Non-Clinical) (RF 94/05-37) in the Oral Biology Unit of the Faculty of Dentistry. The appointment will be tenable from as soon as possible and will be made on a fixed-term basis for a period of two to three years, with a possibility of renewal.

Applicants, who may or may not be clinically qualified, should have a suitable postgraduate qualification and experience in molecular biological techniques related to oral biology. The appointee will be expected to liaise strongly with the clinical departments of the Faculty of Dentistry and the University’s Institute of Molecular Biology to extend a multi-disciplinary research programme currently in place, and contribute to both undergraduate and postgraduate teaching; and should have experience in collaborative research and a strong research interest and background in oral biology.

Annual salaries [non-superannuable but attracting 15% (taxable) terminal gratuity] are on the following scales, with starting salary depending on qualifications and experience: Senior Lecturer (Non-Clinical) HK$641,580 - HK$861,900 (9 points: approx. US$83,322 - US$111,935); Lecturer (Clinical) HK$397,560 - HK$787,740 (11 points: approx. US$51,631 - US$102,304); Lecturer (Non-Clinical) HK$412,980 - HK$689,880 (11 points: approx. US$53,634 - US$89,595; US Dollar equivalents as at 23.12.94). At current rates salaries tax will not exceed 15% of gross income. Children’s education allowances, leave and medical benefits are provided; housing or tenancy allowances are also provided in most cases at a charge of 7½ % of salary.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2058; E-mail: APPTUNIT@HKUVM1.HKU.HK). Particulars are also available on the University’s listserv, accessed by E-mail as “listserv@hkuvml.hku.hk” (specify “get apptment filelist” for list of vacant posts).

Closes 12 April 1995.

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  phone (44) 01223 302067,
  fax (44) 01223 302068.
- In the U.S., Janis Crowley
  phone (212) 496-7704,
  fax (202) 682-0816.

Recruitment Advertising Space
Reservation Deadline: 7 February
RESEARCH SCIENTIST

POSTDOCTORAL RESEARCH SCIENTISTS are being recruited by the Division of Medical Oncology to study the interaction of antisense oligodeoxynucleotides with prostate cancer cells. The ultimate objective is to optimize the use of these compounds as clinical thera
tapeutic agents. Experience with confocal microscopy and/or flow cytometry is preferred. Other positions available to study the mecha
nism of action of suramin and other polyanions as anti
neoplastic agents. Candidates should have expertise in molecular biology. Ph.D. or M.D. required. Send curriculum vitae and the names of three references to: C. A. Stein, M.D., Ph.D., University of Pennsylvania, West 168 Street, New York, NY 10032. FAX: 212-305-
7438; Email: stein@cucca.ccc.columbia.edu. An Affir
mative Action/Equal Opportunity Employer.

Scientific Instrumentation SENIOR SCIENTIST. Conduct research and development program in the elec
trospray mass spectrometry field, lead a group in develop
ning the novel type of scientific instrumentation (Electrospray/Time-of-flight mass spectrometer as a fast and spe
cific detector for liquid chromatography) which are expec
ted to make a significant impact on the biochemical and pharmaceutical industries and research; plan and manage the research group which will design and test the instruments, develop the fast electronic data acquiring system, develop software controlling instruments, and providing fast data analysis, and support sales and custom
er service; may write and produce technical manuals and instructions for the new products. 40 hours per week. $56,000 to $65,000 per year (Salary commensurate with experience). Requires Master’s or equivalent in Physical Sciences. Requires four years of experience in the job offered or four years of experience as a Research Physicist in mass spectrometry. Apply at the Texas Employment Commission, Houston, Texas or send résumé to: Texas Employment Commission, 1117 Trinity, Room 424T, Austin, TX 78701-7231. All paid for by an Equal Employment Opportunity Employer.

R. S. DOW NEUROLOGICAL SCIENCES INSTITUTE

Basic discoveries of the nervous system leading to innovative patient care

NEUROBIOLOGIST. The R. S. Dow Neurological Sciences Institute (RSDNSI) is opening a new position in the field of subcellular and cellular neurobiology. The Institute is committed to a strong interdisciplinary re
search environment. Candidates with research interests in the fields of biochemistry, molecular biology, pharmacol
ogy, and cell biology are encouraged to apply. Generous start-up funds, equipment and lab space are available. Level of appointment will depend upon research accom

STAFF SCIENTIST/SCIENTIST CENTER FOR BIOMEDICAL RESEARCH THE POPULATION COUNCIL

The Population Council is seeking a STAFF SCIENTIST for its Contraceptive Development Program. Advanced degree (Ph.D., M.D., D.V.M., or equivalent) in Immunol
ogy, Endocrinology, or Reproductive Physiology—preferably relating to Biology or contract
ion. Minimum of two years of relevant postdoctoral training, including experience in antibody production, characterization, and small animal surgery. Salary will de
pend upon qualifications and experience. Excellent ben
efits. Send résumé to: Dr. Rosemarie Thau, The Popula
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