

Breast Cancer

Science 266: 66-71 (1994)

Colon Cancer

Cell 75: 1215-1225 (1993)

Obesity

Nature 372: 425-432 (1994)

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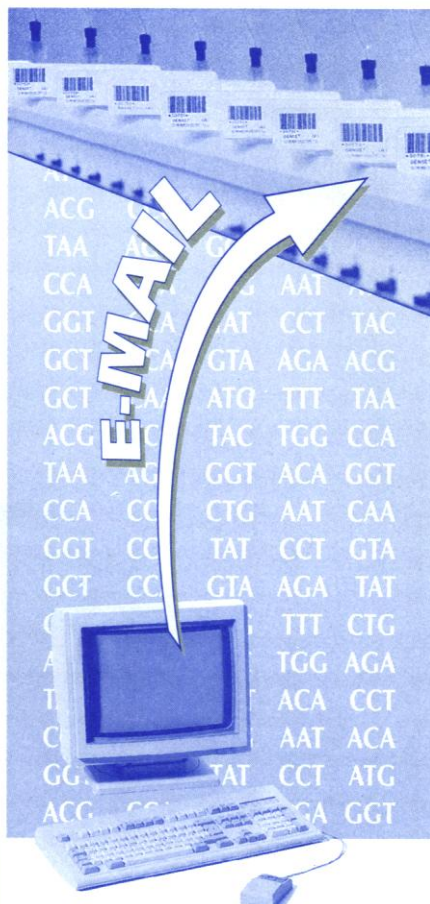
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IN MOLECULAR BIOLOGY 1995

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You must be a recent Ph.D. graduate (awarded between 1 January and 31 December 1994) working in molecular biology.

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Closing date for entries is 5 July 1995.

The prizes will be presented in Stockholm, Sweden, during December 1995.

Full details can be requested from the administrator, at the address below,
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SCIENCE

The Award Committee

Pharmacia Biotech & SCIENCE Prize for Young Scientists
US/ROW enquiries - 1333 H Street, NW, Washington, DC 20005 USA.
Tel: 202 326-6501, Fax: 202 408-8015

European enquiries - Science International, 14 George IV Street, Cambridge,
CB2 1HH, UK. Tel: +44 1223 302067, Fax: +44 1223 302068



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POSITIONS OPEN

THE UNIVERSITY OF NEVADA, RENO Medical Molecular Biology/Molecular Genetics

The University of Nevada, Reno seeks applications or nominations for outstanding candidates for appointment in the Department of Biochemistry at the rank of **ASSOCIATE** or **FULL PROFESSOR**. This appointment represents an unusual opportunity to join an active and growing program and to provide leadership in the development of biomedical research programs. Women and minority candidates are especially encouraged to apply. Competitive salary, fringe benefits, research and office space and a generous support package will be offered. The successful candidate will have an international reputation for excellence in his/her area of specialty, appropriate teaching interests, and an outstanding, independent research program in a medically related area of biochemistry and/or molecular genetics. Appointment will be made in the School of Medicine with support from the Nevada Agricultural Experiment Station. Applicants should submit: (1) a letter of application including a description of current research activities and plans for future research and a summary of teaching interests and experience; (2) a complete curriculum vitae including a full publications list and a statement of current funding support; (3) names, addresses, telephone and FAX numbers of at least three individuals who will supply letters of recommendation. Review of applications will begin May 15, 1995, and will continue until the position is filled. Send applications to: **Dr. R. E. Harrington, Chair, Biochemistry Search Committee, Department of Biochemistry/330, University of Nevada, Reno, NV 89557-0014.** *The University of Nevada is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply. The University of Nevada is responsive to the needs of dual career couples.*

UNIVERSITY OF VICTORIA

The Department of Biology seeks candidates for two positions at the **ASSISTANT PROFESSOR** level. Applicants should have interests in two or more of the following areas: ecology, invertebrate zoology, population genetics, neurobiology, developmental biology, and ethology. Successful candidates will be those whose research and teaching complement existing and incipient strengths in the Department. The deadline for applications is 30 June 1995. Applicants must send their curriculum vitae, at least one copy each of two recent publications, a description of research interests and plans, and names of at least three referees to:

**Dr. Patrick T. Gregory, Chair
Department of Biology
University of Victoria
P.O. Box 1700
Victoria, BC V8W 2Y2 Canada**

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. However, if suitable Canadian applicants cannot be found, other individuals will be considered. The University of Victoria is an employment equity employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal persons.

ASSISTANT OR ASSOCIATE PROFESSOR CELLULAR/MOLECULAR PHYSIOLOGY

Applications are invited for a tenure-track at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Department of Physiology of The Ohio State University College of Medicine. Individuals with an extramurally funded research program using cellular/molecular approaches complementing existing departmental programs are encouraged to apply. Departmental programs exist in: neurosciences, gastrointestinal, physiology, cardiovascular control, epithelial transport and muscle physiology. Applications will be accepted until June 1, 1995, or until suitable candidates have been selected. Send a curriculum vitae, a brief description of research interests, and names of three references to:

**George E. Billman, Ph.D.
Chair, Search Committee
Department of Physiology
302 Hamilton Hall
1645 Neil Avenue
Columbus, OH 43210-1218**

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.

POSITIONS OPEN

PHARMACOLOGY FACULTY POSITIONS

The Department of Pharmacology at the University of South Alabama College of Medicine invites applications for tenure-track faculty positions at the rank of either **ASSISTANT** or **ASSOCIATE PROFESSOR**. Qualified candidates should have a Ph.D. degree in pharmacology or a related biomedical science and at least two years of postdoctoral experience. Appointees at the level of associate professor should have demonstrated ability to initiate and sustain an extramurally supported research program. Individuals with research interests broadly related to pharmacology are encouraged to apply. The Department consists of nine funded scientists with active research programs in molecular, biochemical, and cellular pharmacology. In addition to excellent laboratory space and start-up support, there are exceptional opportunities for collaborative research within the Department as well as with other elements of the medical school. A recent Science Citation survey ranked the University of South Alabama as one of the top up-and-coming institutions in the United States. The greater Mobile area boasts close proximity to beautiful gulf coast beaches and numerous opportunities for outdoor recreation and cultural enrichment. Direct inquiries and applications to:

**Mark N. Gillespie, Ph.D.
Professor and Chairman
Department of Pharmacology
University of South Alabama College of Medicine
Mobile, AL 36688-0002**

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COMPUTATIONAL BIOLOGY OF MICROBIAL PATHOGENS University of Michigan

The Department of Microbiology and Immunology seeks applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR**. Applicants must be committed to a research program that involves development of computational approaches and their application to fundamental problems in the pathogenesis of infectious diseases. The Department is continuing to build on its strengths in molecular pathogenesis. Thus, modeling and analysis of complex dynamical systems with relevance to molecular and cellular mechanisms of pathogenic microbes or host-pathogen interaction are especially welcomed. The successful candidate will contribute to and benefit from association with a strong group of interactive investigators within the Department and a rich network of collaborators from Pathology, Infectious Diseases, and Pediatrics. Excellent start-up support and computational facilities are available within the Department and this is augmented by a university-wide environment that includes multidisciplinary programs in scientific computing and the study of complex systems. Applicants who value excellence in teaching and have a well-defined research program with strong potential for external funding should submit a statement of teaching and research interests, curriculum vitae and bibliography, and they should arrange to have at least three letters of reference sent to: **Chair, Computational Biology Search Committee, Department of Microbiology and Immunology, University of Michigan Medical School, 5641 Medical Sciences II, Ann Arbor, MI 48109-0620.** The review of applications will begin on July 31, 1995. *The University of Michigan is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR Departments of Cellular Biology & Anatomy and Obstetrics & Gynecology

This is a full-time, tenure-track, joint faculty position available 1 July 1995. Applicants should have a Ph.D./M.D., two plus years of postdoctoral experience and a record of excellent research accomplishments. Candidates should have research experience in cell/molecular biology of reproduction with special interest in reproductive immunology or human fertility and development including oocyte maturation and implantation. The successful candidate will be expected to establish externally funded research and to participate in departmental teaching. An attractive package including research facilities and start-up funds is available. Send curriculum vitae and description of current and future research directions to: **Dr. Leonard L. Seelig, Department of Cellular Biology & Anatomy, LSU Medical Center, P.O. Box 33932, Shreveport, LA 71130.** *Louisiana State University Medical Center is an Affirmative Action Employer.*

MOLECULAR IMMUNOLOGY INVESTIGATOR

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting opportunity for a molecular immunologist to join the newly formed Department of Molecular Immunology. This unit, consisting of 40 molecular biologists and immunologists, focuses on cytokines, cytokine receptors, B and T cell biology and antibody engineering. Disease foci include autoimmunity, R.A., asthma, allergy and diabetes. Using the DNA sequence base available through our mass sequencing effort, the unit identifies novel targets relevant to immune modulation as well as innovative approaches to more conventional drug targets.

The ideal candidate will have at least three years postdoctoral experience in a leading laboratory performing state-of-the-art research in molecular immunology. Extensive biological/immunological expertise in a particular area of relevance is required, as is being versed in the standard repertoire of molecular techniques. Publication records must include senior author papers in leading journals.

SmithKline Beecham broadly seeks the best possible scientists, but areas of interest include cytokines, kinases, hematopoiesis, T cell biology, autoimmunity and allergy. The desire to work in a highly interactive environment on problems directly relevant to drug discovery is a must, as are excellent communication and interpersonal skills.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job #H5-0050, PO Box 679, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.



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THE NEUROSCIENCES INSTITUTE

La Jolla, California

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

FELLOW IN THEORETICAL NEUROBIOLOGY

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

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

Fellows will receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 3377 North Torrey Pines Court, Suite 310, La Jolla, California 92037.

CELLULAR & MOLECULAR CANCER RESEARCH

The College of Medicine and the H. Lee Moffitt Cancer & Research Institute at the University of South Florida are seeking applications from Assistant, Associate and Full Professor level individuals to participate in the Cancer Center Research Programs under a stimulating academic environment that includes excellent laboratory and clinical facilities. Research programs include Immunology, Cancer Cell Biology, Molecular Oncology and Cancer Genetics. Academic rank and salary will be commensurate with experience and qualifications. These positions will be assigned to a specific, mutually agreed upon department within the College of Medicine with the possibility of tenure.

Successful individuals must hold an M.D. or Ph.D. with a minimum of 2 years post doctoral training. Individuals at the rank of Associate Professor must have a demonstrated potential for extramural funding. Individuals for Full Professor must have a proven track record of independent research, leadership ability and training backed by publications and extramural funding.

Send current curriculum vitae and a brief statement of major academic interests to W.J. Pledger, Ph.D., Associate Center Director for Basic Research, Office of Faculty Recruitment, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applicants who need a reasonable accommodation in order to participate in the selection process must notify Jody Swanson in the Office of Faculty Recruitment, (813) 975-7894, five days in advance. Applications must be postmarked by deadline of April 20, 1995.

The H. Lee Moffitt Cancer Center & Research Institute is a free standing Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 50,000 square feet of dedicated laboratory and support space in a new Cancer Research Center slated to open in June 1995.



**H. LEE MOFFITT CANCER CENTER
& RESEARCH INSTITUTE**
University of South Florida College of Medicine

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POSITIONS OPEN

FACULTY POSITION

Dana Farber Cancer Institute
Joint Center for Radiation Therapy
Harvard Medical School

Faculty position at the rank of **ASSISTANT PROFESSOR** to establish a program for the study of the role of signal transduction, protein phosphorylation and transcriptional regulation in normal and malignant cells responding to hypoxia or oxidative stress in tumors. Applicants will join a highly collaborative group studying molecular responses to cellular stresses such as heat shock, oxidant stress and radiation. Applicants should have Ph.D./M.D. and proven expertise in an area of mammalian cell biology using molecular genetic techniques. Experience in the study of oxygen regulated processes, tumor angiogenesis or a related topic would be desirable. Please send curriculum vitae, a letter describing research interests and the names of three references (with telephone numbers) to: **Dr. C. Norman Coleman, Chairman, Joint Center for Radiation Therapy, 50 Binney Street, Boston, MA 02115.**

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ASSISTANT/ASSOCIATE PROFESSOR

Applications are invited from individuals for a **TENURE-TRACK POSITION** in the Department of Pharmacology and Toxicology at the Medical College of Georgia. The successful candidate should have a Ph.D. and/or M.D. and will be expected to establish an independent extramurally funded research program utilizing modern approaches. We desire applicants with an interest in the neural regulation of cardiovascular function who can collaborate with investigators from several disciplines. However, individuals with outstanding research accomplishments in related areas will also be considered. Teaching responsibilities will be in medical and graduate courses. Competitive salary, laboratory space and start-up funds are available. Please send a curriculum vitae, a letter describing research plans and the names of three referees to: **Dr. R. William Caldwell, Chair, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300.** The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR in Oral Pathology—Applications are invited for a tenure-track position in the Department of Pathology of Northwestern University Medical School. The candidate must hold a D.D.S. or equivalent degree, and be Board-certified or Board-eligible in Oral Pathology. The candidate is expected to have a graduate degree with rigorous research training and experience sufficient to maintain a viable research program. He/She will be expected to participate in teaching of pathology, to take part in teaching of graduate students in our established Life Sciences Graduate Program, and to participate in the Oral Biopsy Service. Send curriculum vitae, description of research interests and names of at least three references to: **Dr. Janardan K. Reddy, Chair, Department of Pathology, Northwestern University Medical and Dental Schools, 303 East Chicago Avenue, Chicago, IL 60611.**

Northwestern University is an Equal Opportunity and Affirmative Action Employer.

The University of Maryland Cancer Center/Department of Microbiology/Immunology is recruiting a **RESEARCH ASSISTANT PROFESSOR** in Microbiology/Immunology. We are seeking an individual with background and interest in products of gene modulation by interferon and how these products influence biology and clinical effects. Successful applicant should have a Ph.D. or M.D. with at least four years of postdoctoral experience in a relevant area. Qualified applicants for this position should submit their curriculum vitae to: **Ernest C. Borden, Director of UMCC c/o Pam Henderson, 22 South Greene Street, Baltimore, MD 21201.** The University of Maryland at Baltimore encourages women and minorities to apply and we are Affirmative Action/Equal Employment Opportunity/ADA Employers.

Electrophysiologist. Tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level for Ph.D. experienced in single/double-barreled microelectrodes to study Esophageal epithelia. Patch clamp a plus. Salary and time for independent research negotiable. Send curriculum vitae and names of three references to: **R. C. Orlando, M.D., Tulane University Medical Center, SL-35, 1430 Tulane Avenue, New Orleans, LA 70112.** Tulane University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

COGNITIVE SCIENCE

The University of Alabama at Birmingham (UAB) invites applications and nominations for an **ASSOCIATE/FULL PROFESSOR** position in Cognitive Science. Candidates must have a strong record of research accomplishment and are expected to maintain an active extramurally funded research program. An interdepartmental graduate program in Cognitive Science is currently being developed and the successful applicant is expected to play a major role in this program. There is also an opening for an **ASSISTANT PROFESSOR** in Cognitive Science, pending budgetary approval. Review of applications will begin May 15, 1995, and continue until the positions are filled. Applicants should submit a curriculum vitae, summary of research interests, representative reprints, and the names of three referees to: **Michael Sloane, Ph.D., Cognitive Science Search Committee Chair, Department of Psychology, UAB, Birmingham, AL 35294-1170.** FAX: 205-975-6110; Email: sbsf059@uabdp.dpo.uab.edu. UAB is an Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR/ASSISTANT PROFESSOR MOLECULAR IMMUNOLOGY/HEMATOLOGY

Two positions are available for Ph.D. Molecular Biologists, Immunologists or Hematologists interested in immunoregulation, hematopoietic regulation, and gene therapy during/for stem cell transplantation. They will join a multidisciplinary research program focused on immune regulation, hematopoiesis, and gene therapy during stem cell (PSCT and BMT) transplantation for the therapy of lymphoma and breast cancer. This includes both preclinical and clinical studies.

Curriculum vitae and references to:

James E. Talmadge, Ph.D.
Department of Pathology/Microbiology
University of Nebraska Medical Center
600 South 42nd Street
Omaha, NE 68198-3135
Telephone: 402-559-5639

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FACULTY POSITION PHYSIOLOGY AND BIOPHYSICS UNIVERSITY OF WASHINGTON

A tenure-track position at the **ASSISTANT PROFESSOR** or junior associate professor level is available in the Department of Physiology and Biophysics at the University of Washington School of Medicine. The department intends to complement and strengthen existing programs in integrative physiology by recruiting an individual using innovative approaches to study systems function. Areas of special interest are: cardiovascular, respiratory, GI, renal and endocrine physiology. The successful candidate is expected to develop a vigorous independent research program and to teach graduate and professional students. The position offers scholarly support from existing faculty, extensive scientific resources and an excellent academic environment. Send curriculum vitae, selected reprints, statement of research interest and three letters of reference to: **Dr. Peter B. Detwiler, Chair, Search Committee, Department of Physiology and Biophysics, SJ-40, G-424 HSB, University of Washington School of Medicine, Seattle, WA 98195.** Send applications by May 15, 1995. Our WWW address is: <http://www.physiol.washington.edu/pbio/homepage.html>. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

ANATOMY/PHYSIOLOGY FACULTY POSITION

The Cardiovascular Perfusion Program in the School of Natural and Health Sciences at Barry University is seeking an **ASSISTANT/ASSOCIATE PROFESSOR**. Responsibilities include didactic instruction in Anatomy and Physiology, Pathology and Perfusion Science as well as minor clinical education. A Ph.D. and teaching experience is required. Knowledge of perfusion is desirable. Please send résumé, salary requirements, and three letters of recommendation by May 30, 1995.

Jason Freed, CCP
Program Director
Barry University
CVP, SS No. 118
11300 NE 2nd Avenue
Miami Shores, FL 33161-6695

POSITIONS OPEN

CHAIR

Department of Reproductive Medicine
University of California, San Diego
School of Medicine

Applications from and nominations of highly qualified individuals for the position of **CHAIR**, Department of Reproductive Medicine at the University of California, San Diego (UCSD) School of Medicine are now being solicited. The Search Committee is seeking candidates with distinguished backgrounds in academic obstetrics and gynecology. Candidates are being sought with demonstrated ability, credentials and achievements in scholarly research, academic administration and clinical care, who will sustain and enhance the academic and clinical excellence which has characterized the UCSD Department of Reproductive Medicine since its inception in 1970. Academic appointment will be at the professor level (with tenure) with salary commensurate to faculty rank and step based upon published UC pay scales.

Send nominations and applications, including a current curriculum vitae by June 15, 1995, to: **Lewis L. Judd, M.D., Mary Gilman Marston Professor and Chair, Department of Psychiatry and Search Committee for Chair, Reproductive Medicine, University of California, San Diego, School of Medicine, 9500 Gilman Drive, La Jolla, CA 92093-0603.** The University of California is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR IN MICROBIOLOGY

**CHANG GUNG COLLEGE OF MEDICINE
AND TECHNOLOGY
TAIWAN, ROC**

The School of Medical Technology at the Chang Gung College of Medicine and Technology is seeking applicants for a tenure-track **ASSISTANT PROFESSOR** position, which will be available starting August 1995. Candidates should have a Ph.D. degree in Microbiology and at least two years of postdoctoral or equivalent experience in a related area. The ability to teach undergraduates in Clinical Microbiology and to participate in the teaching of graduate courses is expected. The successful applicant must have an undergraduate degree in Medical Technology or a Medical Technologist license, and have demonstrated excellence in publications. Applicants should submit a curriculum vitae, a brief description of future research plans, and three letters of recommendation by May 15, 1995, to: **Dr. Tsan Z. Liu, Dean of the School of Medical Technology, Chang Gung College of Medicine and Technology, 259 Wen-Hwa 1st Road, Kwei-Shan, Taoyuan, Taiwan, ROC.**

ASSISTANT/ASSOCIATE PROFESSOR CELL/DEVELOPMENTAL BIOLOGY

The Department of Anatomy at the Louisiana State University Medical Center—New Orleans seeks to identify a **FACULTY** candidate with a Ph.D. and at least three years of postdoctoral experience. Scientists with research programs in the general area of cell/developmental biology that use molecular biology techniques are especially encouraged to apply. Salary levels are competitive with ample space and start-up funds. Co-appointments in the Cancer and Neuroscience Centers of Excellence are encouraged. Teaching responsibilities will be in the area of microanatomy. For consideration, send a curriculum vitae, research interests, and names of three references to: **Dr. R. Ranney Mize, Head, Department of Anatomy P6-2, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112.** An Equal Opportunity/Affirmative Action Employer.

DIRECTOR, PROGRAM IN DIABETES RESEARCH

Department of Medicine at Case Western Reserve University, University Hospitals of Cleveland, and the V.A. Medical Center seek an outstanding investigator (M.D. or Ph.D.) to develop and direct a Program in Diabetes Research. Adequate research space and resources to recruit three additional faculty will be available. Applicants should submit curriculum vitae and names of three references to: **F. Ismail-Beigi, M.D., Ph.D., Clinical and Molecular Endocrinology, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4951.** Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.



MedImmune, Inc., a dynamic biotechnology company focused on the development and marketing of products for transplantation medicine and therapeutics, and vaccines for the treatment and prevention of infectious diseases, has an immediate opening for a Protein Biochemist.

The successful candidate will have a Ph.D. in biochemistry or a related discipline, or a B.S. or M.S. with equivalent experience. He/She will be facile with current purification strategies, particularly those employed in the purification of membrane and/or lipid-associated proteins, and have demonstrated the ability to tackle complex protein purification problems. This individual will coordinate and be an active participant in efforts within the research group to purify recombinant viral and bacterial antigens and antibodies. Additional expertise in the development of assays to assess protein-protein interactions would be desirable. Strong written and verbal communication skills are essential.

We offer competitive salaries, an excellent benefits package, and the opportunity for professional growth. Qualified candidates should send a cover letter and resume for confidential consideration to:

MedImmune, Inc.
Human Resources, Bio.
35 W. Watkins Mill Road
Gaithersburg, MD 20878
EOE

DIRECTOR SCHOOL OF MARINE PROGRAMS UNIVERSITY OF GEORGIA

The Franklin College of Arts and Sciences of the University of Georgia is seeking applications for the position of Director of its newly formed School of Marine Programs with research, public service and education missions. The Director of the School of Marine Programs oversees (1) the Marine Extension Service in Brunswick, Skidaway and Atlanta, (2) the Marine Institute on Sapelo Island, (3) the Georgia Sea Grant College Program, and (4) the Department of Marine Sciences. Each of the first three units has a fulltime administrator who reports to the Director. The successful candidate will also serve as Head of the Department of Marine Sciences. Applicants should have a strong research program and extensive experience with public service and outreach programs. He/she should have demonstrated administrative ability and well-developed communication and interpersonal skills. It is anticipated that the successful candidate will be appointed to the rank of Full Professor. Salary is negotiable. The position is available September 1, 1995 but the actual starting date is flexible up to June 30, 1996. Minorities and women are especially encouraged to apply. Applicants should provide a brief statement of research, teaching, public service, and administrative philosophy, a current CV, no more than five selected reprints, and should arrange to have four letters of recommendation sent to Dr. J. L. Hamrick, Marine Programs Search Committee, Department of Botany, University of Georgia, Athens, GA 30602 by May 19, 1995.

The University of Georgia is an Equal Opportunity/Affirmative Action Employer



Department of Energy Human Genome Program Announcement

Program Notice 95-15: Human Genome Program - Ethical, Legal, and Social Implications

ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications in support of the Ethical, Legal, and Social Implications (ELSI) subprogram of the Human Genome Program (HGP). The HGP is a coordinated, multidisciplinary, goal-oriented, research effort aimed at improving technologies that will lead to a detailed understanding of the human genome at the molecular level. This particular research notice encompasses research grants that address ethical, legal, and social issues that may arise from the use of information and knowledge resulting from the HGP. The DOE encourages the submission of applications to conduct multidisciplinary, empirical research on privacy issues from the creation, use, maintenance, and disclosure of genetic information. This may include (but is not limited to) issues of ownership and control of genetic information and the protection of the privacy of genetic information in various settings including the workplace. Applications should demonstrate knowledge of the relevant literature, and should include detailed plans for the gathering and analysis of factual information and the exploration of the specific issues of interest. All applications should include, where appropriate, detailed discussion of human subjects protection issues; e.g., storage of, manipulation of, and access to data. Where appropriate, provisions to ensure the inclusion of women, minorities, and potentially disabled individuals must be described, unless specific exclusions are scientifically necessary and justified in detail. All proposed research applications should address the issue of efficient dissemination of results to the widest appropriate audience.

The DOE is also soliciting applications for the preparation and dissemination of educational materials in any appropriate medium that will enhance public understanding of both the scientific aspects and the ethical, legal, and social aspects of the HGP. In addition, the DOE is encouraging applications for the support of conferences focusing on specific issues or areas of concern related to the ethical, legal, and social implications of the HGP. This may include (but is not limited to) implications of advances in the genetic characterization of complex traits and diseases. Educational and conference applications should also demonstrate awareness of the relevant literature, and include detailed plans for the accomplishment of project goals, including, where appropriate, video productions. In the case of applications that propose the production of series for broadcast, audiovisuals or other educational materials, the DOE strongly recommends that samples of previous similar work by the producers and writers be submitted along with the application. In the case of educational activities, the DOE strongly recommends inclusion of assessments of effectiveness of the proposed activities. In the case of all conferences, a fairly detailed and complete roster of committed speakers is necessary. At the completion of the conference, a summary or report is required. Educational and conference applications must also demonstrate awareness of the need to reach the widest appropriate audience.

PREAPPLICATIONS: Potential applicants are strongly encouraged to submit a brief preapplication, in accordance with 10 CFR 600.10(d)(2), that consists of two to three pages of narrative describing the research project objectives and methods of accomplishment. These will be reviewed relative to the scope and research needs of the DOE's Human Genome Program. Preapplications referencing Program Notice 95-15 should be received by April 13, 1995, and sent to Dr. Daniel W. Drell, Office of Health and Environmental Research, ER-72 (GTN), Washington, DC 20585. For express deliveries, address to Dr. Daniel Drell (telephone 301/903-6488), 19901 Germantown Road, Germantown, MD 20874. Address submissions by electronic mail to genome@er.doe.gov (in ASCII text please). Telephone and FAX numbers are required parts of the preapplication, and electronic mail addresses are desirable. A response to the preapplications discussing the potential program relevance of a formal application generally will be communicated within 30 days of receipt.

SUPPLEMENTAL INFORMATION: It is anticipated that approximately \$700,000 will be available for grant awards in this area during FY 1996, contingent upon availability of appropriated funds. Multiple-year funding of grant awards is expected, and is also contingent upon availability of funds. Previous awards have ranged from \$60,000 per year up to \$500,000 per year with terms from one to three years; most awards average about \$200,000 per year for two to three years. Similar award sizes are anticipated for new grants. Information about development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in the Application Guide for the Office of Energy Research Financial Assistance Program and 10 CFR part 605. The Application Guide is available from the U.S. Department of Energy, Office of Health and Environmental Research, Health Effects And Life Sciences Research Division, ER-72 (GTN), Washington, DC 20585. Telephone requests may be made by calling (301) 903-6488. As part of its grant regulations, ER requires in 10 CFR 605.11(b) that a grantee funded by ER and performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health "Guidelines for Research Involving Recombinant DNA Molecules" (51 FR 16958, May 7, 1986) or such later revision of those guidelines as may be published in the **Federal Register**.

The dissemination of materials and research data in a timely manner is essential for progress towards the goals of the DOE Human Genome Program. The OHER requires the timely sharing of resources and data. Applicants should, in their applications, discuss their plans for disseminating research results and materials that may include, where appropriate, publication in the open literature, wide-scale mailings, etc. Once OHER and the applicant have agreed upon a distribution plan, it will become part of the award conditions. Funds to defray the costs of disseminating results and materials are allowable; however, such requests must be sufficiently detailed and adequately justified. Applicants should also provide timelines projecting progress toward achieving proposed goals.

DATES: Formal applications submitted in response to this notice must be received by 4:30 p.m., E.D.T., July 13, 1995, to be accepted for merit review in September 1995, and to permit timely consideration for award in Fiscal Year 1996.

ADDRESSES: Formal applications referencing Program Notice 95-15 should be forwarded to: U.S. Department of Energy, Office of Energy Research, Acquisition and Assistance Management Division, ER-64 (GTN), Washington, DC 20585, ATTN: Program Notice 95-15. The following address must be used when submitting applications by U.S. Postal Service Express Mail or any commercial mail delivery service, or when handcarried by the applicant: U.S. Department of Energy, Office of Energy Research, Acquisition and Assistance Management Division, ER-64, 19901 Germantown Road, Germantown, MD 20874.

FOR FURTHER INFORMATION CONTACT: Dr. Daniel W. Drell, Office of Health and Environmental Research, ER-72 (GTN), Office of Energy Research, U.S. Department of Energy, Washington, DC 20585, (301) 903-6488.

FROM: Federal Register, Monday, March 13, 1995, Vol. 60, No. 48, 60 FR 13433. "Energy Research Financial Assistance Program Notice 95-15: Human Genome Program-Ethical, Legal, and Social Implications"

POSITIONS OPEN

ENDOWED CHAIR IN NEUROSCIENCE

The Department of Neurology and the Center for Investigative Neuroscience is seeking an outstanding individual with a strong, well-established research program who is using cellular and molecular approaches for studying basic neurobiological mechanisms related to neuromuscular disorders. Areas of special interest include trophic/nutritional aspects, axonal growth and regeneration, synapse formation, and animal models of disease and gene therapy, including transgenics. The Bowman Gray School of Medicine of Wake Forest University offers a unique opportunity to interact with a broad range of neurobiologists with diverse interests that comprise part of a strong and active interdisciplinary Ph.D. program in Neuroscience with 25 graduate students and over 70 faculty. In addition, opportunities exist for interactions with many other faculty using cellular/molecular approaches in several departments including Neurobiology and Anatomy, Physiology/Pharmacology, Biochemistry, Molecular Genetics, Immunology and Cancer Biology. Please send a curriculum vitae, a statement of research interests, two recent representative publications and the names of three references to: **Dr. Donald Woodward, Director, Center for Investigative Neuroscience, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27157-1010. Affirmative Action/Equal Opportunity Employer.**

OREGON HEALTH SCIENCES UNIVERSITY (OHSU)

Center for Research on Occupational and Environmental Toxicology (CROET)

Growing multidisciplinary research institute focused on the brain and behavior invites applications for **FACULTY POSITIONS** in molecular toxicology or pharmacology. Interactive, team-oriented, independent scientists focused on chemical perturbations of gene expression in neurodegeneration, development or aging are sought. Start-up funds, competitive salaries (50% start-supported), and generous benefits package. Applications accepted until positions filled; reviews to begin May 1, 1995.

Send curriculum vitae, career goals, representative publications, and three references to: **Dr. P. S. Spencer, Center for Research on Occupational and Environmental Toxicology (L606), Oregon Health Sciences University, Portland, OR 97201-3098. OHSU is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR

Indiana University School of Medicine

The Indiana University School of Medicine Evansville Center is inviting applications for a **TENURE-TRACK POSITION** from candidates with a Ph.D. or M.D. degree and at least three years of postdoctoral experience. While a specific area of interest is less important than creative work at the forefront of a field, preference will be given to candidates with a background in neuropharmacology or neurophysiology with expertise in immunology and molecular biological techniques. The candidate is expected to establish and maintain an independent, extramurally funded research program and participate in medical student teaching. The position offers an attractive start-up package, including technical assistance, and laboratory space in our new teaching and research facility. Please send a statement of professional interests, a curriculum vitae and names of three references to: **G. Keith Matheson, Ph.D., Search Committee Chairman, Indiana University School of Medicine, 8600 University Boulevard, Evansville, IN 47712. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR, Fish Biology. Department of Biological Sciences, Florida Institute of Technology. Anticipated permanent position beginning August 1995. Ph.D., commitment to teaching and research required; postdoctoral experience preferred. Preference to applicants in: population and ecosystem modeling; reproduction, growth, nutrition; endocrinology, physiology; conservation biology; emphasis on coastal systems to attract local as well as federal funding. Duties: teaching; undergraduate advising; maintenance of vigorous funded research program at graduate level. Send curriculum vitae, plans for research and teaching, names of three references to: **Dr. R. L. Turner, Biological Sciences, Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901-6988. Applications reviewed upon receipt. Position pending funding. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

PROFESSOR AND CHAIR OF THE DEPARTMENT OF ANATOMY AND CELL BIOLOGY

The F. Edward Hébert School of Medicine at the Uniformed Services University of the Health Sciences (USUHS) invites applications for the position of **PROFESSOR and CHAIR** of the Department of Anatomy and Cell Biology. USUHS School of Medicine seeks a distinguished Ph.D. or M.D. scientist with a vigorous, well-funded research program and an outstanding record of scholarship and research productivity. The candidate should also exhibit a strong commitment to excellence in education and mentorship, at the medical, graduate and postdoctoral levels. The new Chair will have administrative and managerial skills commensurate with the responsibilities of such a position and will be expected to utilize and expand the existing strengths of the Department. The current Department has particular research strengths in systems and cellular neurobiology as well as developmental biology. Review of applications will begin in April 1995; applications should be received by May 15, 1995. Applicants should submit a curriculum vitae and bibliography, an outline of current and future research interests, and the names of three references to: **Eleanor S. Metcalf, Ph.D., Chair, Search Committee, Department of Microbiology and Immunology, c/o CHR-ACB, The University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Nominations for this position are also invited. Foreign nationals will be considered only if qualified United States citizens are not available. Final appointment to this position is subject to completion of a background investigation. USUHS is an Equal Opportunity/Affirmative Action Employer with a strong commitment to racial, cultural, and ethnic diversity.**

DEVELOPMENTAL GENETICS VISITING ASSISTANT PROFESSOR

The Department of Biology, Hamilton College, invites applications for a visiting position at the **ASSISTANT PROFESSOR** level, effective 1 July 1995. Applicants must have a Ph.D.; postdoctoral and prior teaching experience preferred. Teaching for the successful applicant will include an introductory level genetics and development course, and an upper level course in molecular genetics; supervising undergraduate research projects may also be involved. Send curriculum vitae, statements of teaching and research interests, and three letters of reference to: **David A. Gapp, Chair, Biology Department, Hamilton College, 198 College Hill Road, Clinton, NY 13323-1292. Review of applications will begin on 24 April 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.**

FACULTY POSITION GENETIC APPROACHES TO RODENT MODELS OF HUMAN SUBSTANCE ABUSE AND BEHAVIORAL DISORDERS

The Departments of Psychiatry, Human Genetics and Pharmacology at the Medical College of Virginia/Virginia Commonwealth University are seeking a **FACULTY** member, at a level commensurate with the candidate's qualifications and experience, with expertise in genetic approaches to rodent models of human substance abuse or behavioral disorders to join a multidisciplinary research group with expertise in basic pharmacology (**Dr. R. Balster**), gene mapping (**Dr. R. Straub**), psychiatric genetics (**Dr. K. Kendler**) and human quantitative and behavioral genetics (**Dr. L. Eaves**). Research approaches could include traditional breeding or molecular strategies (including transgenics or mutation screening) with the goal of identifying genetic/molecular mechanisms of susceptibility in rodents that may be tested in human populations. Applicants must have a doctoral degree and at least two years of postdoctoral research experience. Tenure-track appointment is possible.

Send applications including a curriculum vitae, a statement of research goals, and names of three references to: **Kenneth S. Kendler, M.D., Psychiatric Genetics Research Program, Department of Psychiatry, MCV, P.O. Box 980710, Richmond, VA 23298 or Email: kendler@gems.vcu.edu. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.**

POSITIONS OPEN

DIRECTOR CENTER FOR MARINE SCIENCE RESEARCH

The University of North Carolina at Wilmington invites applications and nominations for the position of **DIRECTOR**, Center for Marine Science Research. The Director, with faculty rank, has management responsibility for the Center for Marine Science Research and is administrator of the university's Marine Science Program; assists in securing extramural funding in the marine sciences; serves as the university's representative to statewide marine sciences programs and boards; and advises the Provost concerning marine sciences. Candidates should hold a doctorate, have an exceptional record of research/scholarship in marine sciences, possess administrative experience, have a record of success in securing external funding, and have university-level teaching experience. Salary is competitive and commensurate with experience. Requests for additional information, letters of application, curriculum vitae, and the name, address, and telephone number of four references should be sent to: **Chair, CMSR Director Search Committee, Office of the Provost, University of North Carolina at Wilmington, Wilmington, NC 28403. The University of North Carolina at Wilmington is an Equal Opportunity/Affirmative Action Employer. Minorities and women are particularly encouraged to apply.**

CHAIRPERSON—Department of Pharmacology and Toxicology. The University of Medicine and Dentistry of New Jersey (UMDNJ)-New Jersey Medical School invites nominations and applications for the position of Chairperson of the Department of Pharmacology and Toxicology. The successful candidate will have a nationally recognized record of achievement in research, a strong interest in the development of effective teaching programs, and be qualified for an appointment as a full professor. For further information or to apply, please send your curriculum vitae, no later than June 30, 1995, to: **Linda C. Reich, Office of the Dean, UMDNJ-New Jersey Medical School, MSB-C 662, University Heights, 185 South Orange Avenue, Newark, NJ 07103-2714. The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer/Minorities/Female/Disabled/Veteran and is a member of the University Health System of New Jersey.**

SENIOR FACULTY IN BIOENGINEERING University of California, San Diego

The Department of Bioengineering in the University of California, San Diego, with the support of the Whitaker Foundation Development Award, seeks a **SENIOR FACULTY** member who has made outstanding contributions and has national and international recognition in areas related to tissue engineering and/or biomechanics. The candidate is expected to establish a vigorous program of high-quality research that complements the existing activities in the Department and to teach at the undergraduate and graduate levels. All applications and nominations (with the candidate's consent) received by June 1, 1995, will be assured full consideration; search will continue until position is filled. Salary is commensurate with experience and based on UC pay scales. Please send curriculum vitae, statement of research interests and teaching experience, samples of publications, and the names, addresses, and telephone and FAX numbers of five references to: **Shu Chien, M.D., Ph.D., Department of Bioengineering, UCSD, La Jolla, CA 92093-0412. FAX: 619-534-5722. The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.**

ANATOMY AND CELL BIOLOGY

Applications are invited for a **TENURE-TRACK POSITION** starting academic year 1995-96. Expertise in molecular methods in neurobiology, cell and developmental biology or paleobiology preferred. Ph.D. plus two years of postdoctoral experience required. Must be willing to teach human gross anatomy to medical/graduate students. Submit a curriculum vitae and names, addresses, and telephone numbers of three references to: **Anatomy Search Committee, Howard University College of Medicine, Washington, DC 20059. FAX: 202-265-7055. Equal Opportunity Employer.**

Director of Technology Management University of Pittsburgh

The University of Pittsburgh seeks a person to lead its effort to create a nationally recognized program in technology management and transfer. In addition to its main campus, the University has one of the nation's largest academic medical centers, and its biomedical and bioengineering research is now ranked tenth in the nation. The city of Pittsburgh is consistently ranked among the best places to live in America.

Since the key responsibility of the Director will be to evaluate disclosures for University patents to determine which could be the basis for a new company and which could be licensed, we are seeking a person who has a solid record of accomplishment in completing license agreements and assisting in the formation of new companies with the support of outside investors, including national venture capital firms.

The ideal candidate will have a background in licensing of technology, commercialization of technology, business development and/or venture capital. A technical background, particularly in life sciences, is a plus. Experience with biotechnology, pharmaceutical or other high-tech companies and national venture capital firms is desirable. Candidates must be able to manage projects effectively with a team approach with other professionals of the University and must be sensitive to University policies that relate to intellectual property and conflict of interest.

Salary is negotiable and commensurate with qualifications and experience. Please send resume, along with names and addresses of at least three references and a statement of your vision for university technology management, by May 15, 1995, to: Thomas Detre, M.D., Senior Vice Chancellor for Health Sciences, University of Pittsburgh, 3811 O'Hara Street, Pittsburgh, PA 15213.

The University of Pittsburgh and University of Pittsburgh Medical Center are equal opportunity/affirmative action employers.

POST DOCTORAL SCIENTIST - JOB# 9510

Ciba's Agricultural Biotechnology Research Unit has a Postdoctoral position available for a Scientist with a Ph.D. in biochemistry, molecular biology and/or cell biology. Studies will involve the characterization of the structure and function of novel insecticidal proteins as well as elucidation of their mode of action. A strong background in insect physiology/cell biology preferred. Molecular biology experience is desired. **Interested candidates should forward a cover letter (which must include the job #9510), curriculum vita, a list of publications and names of three references, to Ciba Biotechnology Research Unit, Human Resources Dept., P.O. Box 12257, Research Triangle Park, N.C. 27709-2257. DEADLINE DATE: May 1, 1995. (NO CALLS). We offer a competitive salary and benefits package.**

WE ARE AN EQUAL OPPORTUNITY EMPLOYER

ciba

Faculty Position

Applicants are sought for the position of **Director of the Biotechnology Center at Tufts University**. This is a **tenure-track position** in the **Chemical Engineering Department**, 50% devoted to directorship activities. The latter will consist primarily of supervision and promotion of interdisciplinary biotechnology teaching/research at Tufts, which, besides Medford-based science and engineering departments, includes veterinary and medical schools. A PhD in chemical engineering or related field is required; entry level is open. Of particular interest are those at a relatively early stage in their careers, who have established or shown great promise of establishing i) a successful research program in biotechnology; ii) collaboration across disciplines and/or with industry; and iii) leadership of teaching and research programs. Women and minorities are especially encouraged to apply. Submit vitae including references and teaching/research plans to: Faculty Search Committee, Chemical Engineering Department, Tufts University, 4 Colby Street, Medford, MA 02155. Screening begins April 21, 1995. **Tufts University is an equal opportunity/affirmative action employer.**

ASSOCIATE SCIENTISTS, PROTEIN AND RECEPTOR BIOCHEMISTRY

SmithKline Beecham Pharmaceuticals, a leader in pharmaceutical research and development, has exciting opportunities for two associate scientists to investigate structure/function relationships of G-protein coupled receptors and to evaluate potential disease markers for their diagnostic efficacy.

Macromolecular Sciences

As a member of a multidisciplinary group, the scientist will investigate the structure and ligand interactions of bioactive peptide receptors. Requirements include a BS or MS in biochemistry, pharmacology or a related field. Experience in receptor characterization (ligand binding and signal transduction assays) and familiarity with data analysis programs is preferred. Additional experience in molecular biology (subcloning, mutagenesis, PCR, sequencing, and gene expression) and the operation of laboratory robots is desirable. Refer to Job #H5-0047.

Molecular Diagnosis

The scientist will join an ongoing effort involved with the discovery, purification, and characterization of proteins for diagnostic applications. Requirements include a BS or MS in biochemistry or a related field with experience in protein biochemistry (protein purification, gel electrophoresis, Western blots, and ELISA). Additional experience in ligand binding assays, HPLC, and chemical modification of proteins would be an advantage. Refer to Job #H5-0063.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send resume with salary requirements to: Job #____, SmithKline Beecham Pharmaceuticals, PO Box 799, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

POSITIONS OPEN

The Department of Biomathematics at the UCLA School of Medicine is recruiting for two **FACULTY MEMBERS** at any level. Position 1 is in the area of mathematical modeling in physiological and biophysical sciences including the neurosciences, and position 2 is in the area of mathematical modeling in genetics or cell or molecular biology. The successful applicants will have independent research programs in one of these fields and will collaborate with others in these fields. Salary is negotiable with the Chair and the Dean. Please send a curriculum vitae and the names of at least three referees to:

Robert M. Elashoff, Chair
Biomathematics Department
UCLA School of Medicine
P.O. Box 951766
Los Angeles, CA 90095-1766

UCLA is an Affirmative Action Employer.

We are a cardiac research group utilizing receptor physiology and signal transduction to achieve protective myocardial adaptations. We immediately require a **POSTDOCTORAL FELLOW** who is experienced in one or more of the following: protein chemistry; protein phosphorylation; tissue radiolabelling; fluorimetric ion exchange measurements; immunohistochemistry; fluorescence microscopy. Salary will be determined by your credentials and experience. Please send résumé no later than June 30, 1995. **Anirban Banerjee, Ph.D., Division of Cardiothoracic Surgery, University of Colorado Health Sciences Center, 4200 East Ninth Avenue-Box C-320, Denver, CO 80262. Equal Opportunity Employer/Affirmative Action.**

POSTDOCTORAL RESEARCH POSITIONS

Two **RESEARCH POSITIONS** are available immediately to study brain receptors and drug effects in nonhuman primates. The positions require a Ph.D. or M.D./Ph.D. Applicants should have a strong interest and training in biochemical techniques. The Primate Center is located 25 miles west of Boston. Please send curriculum vitae and the names of three references to: **Bertha K. Madras, Ph.D., Harvard Medical School, New England Regional Primate Research Center, 1 Pine Hill Drive, Southborough, MA 01772-9102. FAX: 508-624-8190; Email: bmadras@warren.med.harvard.edu. Harvard University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in molecular and cell biology is available immediately to investigate the role of membrane phospholipid metabolism in growth factor signal transduction. The focus of the project is the investigation of phosphatidylcholine hydrolysis triggered by colony-stimulating factor 1 and the role of this degradation pathway in mitogenesis. The research involves the application of contemporary techniques of molecular biology to dissect the mechanistic details of interaction between the receptor and downstream components in the regulatory network. Candidates with a recent Ph.D. degree should apply by submitting a curriculum vitae, a short statement of research interests, reprints and the names of three references to: **Charles O. Rock, Department of Biochemistry, St. Jude Children's Research Hospital, Danny Thomas, Founder, 332 North Lauderdale, Memphis, TN 38101. An Affirmative Action/Equal Opportunity Employer.**

Available Immediately: **POSTDOCTORAL POSITION** studying the effects of lipoproteins on endothelial cell function. Project will investigate the molecular mechanisms for endothelial cells activation after exposure to LDL. Experience in molecular biology is essential. Experience in promoter analysis is preferred. Send curriculum vitae, list of references and statement of previous research experience to: **Dr. Kirkwood A. Pritchard, Medical College of Wisconsin, Cardiovascular Research Center, 8701 Watertown Plank Road, Milwaukee, WI 53226-0509. FAX: 414-266-8712. Equal Opportunity/Affirmative Action Employer. Minority/Female/Disabled/Veteran.**

Two **POSTDOCTORAL POSITIONS** are available in the Department of Ophthalmology and Visual Sciences to study the pathogenesis of intraocular inflammation (uveitis) using Lewis rat. Requirement: recent Ph.D. with experience in protein purification and cellular immunology. Send curriculum vitae and names of three references to: **Dr. Nalini S. Bora, Ph.D., Department of Ophthalmology and Visual Sciences, Box 8096, Washington University School of Medicine, 660 South Euclid, St. Louis, MO 63110 USA. Telephone: 314-362-1665; FAX: 314-362-3638.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS—Invertebrate Larval Ecology. The Oregon Institute of Marine Biology seeks to fill two positions in a program investigating physical and nutritional linkages between larvae and estuaries. Appointments will begin September 1995, pending final approval of funding and will last up to two years. Salary is commensurate with experience. Position 1: A Ph.D. interested in coastal oceanography and behavior of larval invertebrates. Experience should include sampling of zooplankton, sampling and processing of physical oceanographic data, identification of larvae, and experimental analysis of larval behavior. Position 2: A Ph.D. interested in larval nutrition and development. Experience should include culture of marine larvae, and techniques for analyzing growth, development, and biochemical composition of lab and field populations of larvae. Strengths in lab and field work are of particular value.

Interested applicants should send: 1) a letter detailing research experiences and interests; 2) a curriculum vitae; and 3) names, addresses, and telephone numbers of three references to be received no later than May 15, 1995, to: **Dr. Lynda Shapiro, Director, Institute of Marine Biology, University of Oregon, Charleston, OR 97420. The University of Oregon is an Affirmative Action/Equal Opportunity Employer committed to cultural diversity and compliance with ADA.**

Three **POSTDOCTORAL POSITIONS** in Legume Biotechnology: one for design and analysis of tissue-specific expression of desired genes; and two to refine regeneration and transformation of peanut and soybean. Candidates with experience in molecular biology and/or plant cell culture and genetic transformation should submit a letter describing their research experience and career interests, a curriculum vitae, transcripts, and names of three references, to: **Wayne Parrott, Department of Crop and Soil Sciences, or Ron Nagao, Department of Botany, University of Georgia, Athens, GA 30602. Email: wparrott@uga.cc.uga.edu; nagao@bscr.uga.edu. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.**

A **POSTDOCTORAL POSITION** in neurobiology is available immediately to study the cellular and molecular response to persistent noxious stimulation or nerve injury at the level of the spinal cord and dorsal root ganglia. Research experience in neuroanatomy, neurochemistry or molecular biology of nociception is desirable. Stipend range is \$30,000 to \$34,000. Applicants should send curriculum vitae, statement of research goals and three letters of recommendation to: **Dr. M. A. Ruda, NIH, Building 49, Room 1A11, 49 Convent Drive, MSC 4410, Bethesda, MD 20892-4410. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in molecular neuroendocrinology. Molecular biology and biochemistry of processing enzymes and endogenous protease inhibitors required in converting prohormones to active peptide hormones and neurotransmitters (*FASEB J.*, 8: 1269-1278, 1994). Molecular cloning and expression of proteases and protease inhibitors. Position begins spring/summer 1995. Experience in molecular biology and gene expression of recombinant enzymes/proteins is required. Send curriculum vitae with names of three references to: **Dr. Vivian Hook, Department of Medicine, University of California, San Diego, UCSD Medical Center, 200 West Arbor Drive, No. 8227, San Diego, CA 92103-8227.**

POSTDOCTORAL POSITION available at the University of Pennsylvania School of Medicine in August 1995 to study replication and pathogenesis of the murine coronavirus, mouse hepatitis virus. Projects include: 1) structure/function analysis of viral nonstructural proteins; 2) studies of the determinants of liver and CNS tropism; and 3) mechanism of virus induced demyelination. Experience in molecular biology, biochemistry and/or viral pathogenesis is desirable. This is an opportunity to work in a large community of virologists. Please send curriculum vitae and three reference letters to: **Dr. Susan Weiss, Department of Microbiology, 319 Johnson Pavilion, University of Pennsylvania, Philadelphia, PA 19104-6076. For further information: Email: weiss@mscf.med.upenn.edu. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION G PROTEINS Geisinger Clinic Weis Center for Research

Applications are invited for a **POSTDOCTORAL POSITION** to study the targeting and subcellular localization of the heterotrimeric G proteins, particularly the γ subunits, in the laboratory of **Dr. Janet Robishaw (J. Cell. Biol., 126:811-819, 1994).** Previous experience in molecular biology is required and experience in fluorescence microscopy is desirable. Interested candidates should send a curriculum vitae, names of three references, and a brief summary of research experience to: **Geisinger Human Resources (JDR), 100 North Academy Avenue, Danville, PA 17822-1529. Equal Opportunity Employer/Minority/Female/Disabled/Veteran.**

POSTDOCTORAL POSITION available to study signal transduction through receptors for tumor necrosis factor (see *J. Biol. Chem.*, 269:22492; 270:3574). Experience in molecular biology and biochemistry essential. Knowledge in 2-hybrid screens and expression cloning helpful. Please send curriculum vitae with names, telephone and FAX of three references to: **Dr. David B. Donner, Department of Physiology & Biophysics, Medical Sciences Building, 635 Barnhill Drive, Indianapolis, IN 46202.**

A **POSTDOCTORAL POSITION** is available immediately for the molecular characterization of a prenyl-cysteine-directed carboxyl methyltransferase that modifies *ras*-related GTPases and is involved in signal transduction in myeloid cells. Experience: molecular biology required; cell biology and/or protein purification desirable. Please send curriculum vitae and references to: **Mark R. Philips, M.D., Departments of Medicine and Cell Biology, NYU Medical Center NB16N1, 550 First Avenue, New York, NY 10016. FAX: 212-263-8804.**

POSTDOCTORAL POSITION available immediately to study spinal cord injury, transplantation and axonal regeneration. Prefer applicants with experience in animal microsurgery, histology and immunohistochemistry, neuronal tract tracing, cell culture, and *in situ* hybridization. Send curriculum vitae, description of research experience, and three letters of recommendation to: **Dr. Xiao Ming Xu, Department of Anatomy and Neurobiology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, Room M306, St. Louis, MO 63104 USA. Telephone: 314-577-8271. Saint Louis University is an Equal Opportunity Employer/Minority/Female/Disabled/Veteran.**

RESEARCH FELLOWSHIPS: NIH-supported training opportunities with an interdepartmental, multidisciplinary orientation. Research areas include glycoprotein synthesis and role in implantation, cell-cell interactions in androgen-regulated gene expression, steroid hormones and carcinogenesis, neuroendocrine control of gonadal function, protein transitions in spermatogenesis and reproductive toxicology, mechanisms controlling gene activity and Ca^{2+} in testis and uterus, cell interactions during fertilization and early development, Sertoli cell function and regulation of testicular functions, control of corpus luteum function, role of growth factors and oncogenes in growth and differentiation, genetics of gonadal gene expression. Send curriculum vitae to: **Dr. B. Sanborn, University of Texas Health Science Center, Department of Biochemistry and Molecular Biology, P.O. Box 20708, Houston, TX 77225. The University of Texas Health Science Center is committed to increasing representation of minority groups and is an Equal Opportunity Employer.**

CLINCH VALLEY COLLEGE OF THE UNIVERSITY OF VIRGINIA Teaching Internship/Mentor

A one-year appointment, possibly renewable, to teach cellular/molecular biology and introductory biology. Ph.D. or ABD preferred. Salary—\$20,000 with no benefits. Located in the mountains of Southwest Virginia. Well-equipped Natural Science Department offering degrees in biology, chemistry, environmental science and medical technology. Send letter of application, résumé, three letters of recommendation and official transcripts to: **Biology Search Committee, Office of the Provost and Dean, Clinch Valley College, 1 College Avenue, Wise, VA 24293. Affirmative Action/Equal Opportunity Employer/ADA Institution.**



EXECUTIVE DIRECTOR

The Search Committee for Sigma Xi, The Scientific Research Society, invites nominations and applications for the position of Executive Director. The Executive Director will be located at the Society's Headquarters in the Research Triangle Park in North Carolina.

With a membership of approximately 90,000 individuals and more than 500 chapters worldwide, Sigma Xi occupies a unique position in the scientific community. The purpose of the Society is to honor scientific achievement, improve the quality of science and access to science, enhance scientific literacy, encourage interdisciplinary research, inform policy makers about science, and foster worldwide interaction among researchers.

The Executive Director, in association with the Board of Directors of the Society, will have the opportunity to lead Sigma Xi into the 21st Century. The successful candidate will be a leader with commitment to the goals and growth of Sigma Xi.

The Executive Director must be an effective communicator, a consensus builder with the ability to motivate and lead volunteers, peers, and subordinates, and will have demonstrated skills in managing a complex system. He or she must possess proven fundraising ability and willingness to travel. Standing and recognition in the scientific and technical community are essential; research experience and familiarity with Sigma Xi and its programs are desirable.

Applications and nominations should include a current *curriculum vitae*, the names and addresses of three references, and a statement of reasons why the position is of interest. This material will be kept in confidence and should be directed to:

Dr. George Bugliarello
Chairman, Executive Director Search Committee
Sigma Xi, The Scientific Research Society
P. O. Box 13975
Research Triangle Park, NC 27709

Screening of applications will begin on May 1, 1995, and will continue until the position is filled. It is hoped that a selection will have been made by July 1, 1995.

Sigma Xi is an equal opportunity employer.

CONFERENCE

3rd Annual Conference

AIDS, Drugs of Abuse and the Neuroimmune Axis

A Satellite Symposium to be held before the 1995 Meeting of the Society for Neuroscience
November 9-11, 1995 (Thursday-Saturday)
Bristol Court Hotel; San Diego, California

The twin focal points of the meeting will be: 1. the use of drugs of abuse as informative agents in studying the mechanisms linking the neural-endocrine-immune axes; and 2. the effect of drug-induced immunomodulation on resistance to diseases including AIDS.

Travel awards are available for young investigators.

For further information and registration forms contact: **Ms. Suzanne Ingalls; PNI Program Office; MMRF; 914 South 8th St., D3; Minneapolis, Minnesota 55404; Telephone # (612) 337-7381.**

Funded in part by a grant from the National Institute on Drug Abuse

BIOMACROMOLECULES: FROM 3-D STRUCTURE TO APPLICATIONS

October 24-26, 1995, Pasco, Washington. Sponsored by United States Department of Energy Office of Health and Environmental Research, and Battelle, Pacific Northwest Laboratories.

Biomacromolecular 3-D structure and dynamics have broad implications in health, environment, and industry. This symposium will address the current status and prospects of experimental and theoretical methods for determining DNA and protein structure-function-dynamics relationships. Examples will be given of progress involving health, environment, and industrial applications. The chairman is Rick L. Ornstein. Speakers, papers, and poster presentations are invited in the following areas: (1) 3-D Methods: Current Status and Future Potential, (2) Structure-Function Relationships, and (3) Applications.

Confirmed speakers include: L.S. Beese (Duke University); A.M. Chakrabarty (University of Illinois, Chicago); R.E. Dickerson (University of California, Los Angeles); D.S. Eisenberg (University of California, Los Angeles); A.M. Klivanov (Massachusetts Institute of Technology); P.A. Kollman (University of California, San Francisco); A.A. Kossiakoff (Genentech); B.W. Matthews (University of Oregon); J.A. Peterson (University of Texas, Dallas); G.A. Petsko (Brandeis University); A. Rich (Massachusetts Institute of Technology); H.A. Sheraga (Cornell University); B.A. Singer (University of California, Berkeley); S.G. Sligar (University of Illinois, Urbana); B.D. Sykes (University of Alberta, Edmonton); L.P. Wackett (University of Minnesota, St. Paul).

Abstracts: Typewritten, double-spaced informational abstracts not to exceed 250 words must be received in Richland, Washington, no later than May 15, 1995. Title should be followed by names of the authors, mailing addresses, phone numbers, fax numbers, and e-mail addresses. Abstracts and inquiries should be addressed to R.W. Baalman, Manager, Planning and Communications, K1-50, Life Sciences Center, Battelle, Pacific Northwest Laboratories, Richland, WA 99352. Phone 509 375-3665; Fax 509 375-3686.

Postdoctoral Fellowship in Plant-Insect Interactions

The Interdisciplinary Research Training Program (RTP) on Plant-Insect Interactions at the University of Arizona invites applications for a Postdoctoral Fellowship focusing on insect physiology. Areas of particular interest include gut physiology and biochemistry, chemoreception and nutrition in phloem feeding insects. The RTP is funded by the DOE/NSF/USDA Joint Program on Collaborative Research in Plant Biology. Its overall goals are to provide effective interdisciplinary training in plant and insect sciences and to develop a better understanding of the complex interactions between plants and insects to serve as a guide for genetic engineering of plants for protection against insect attack. In particular, novel approaches to mechanistic studies are sought, with an emphasis on the insect-plant interaction. Faculty involved are in the Departments of Biochemistry, Ecology and Evolutionary Biology, Entomology, Neurobiology and Plant Sciences. For more detailed information, please contact E.A. Bernays (schistos@ccit.arizona.edu) or R. Feyereisen (feyereisen@biosci.arizona.edu).

Fellowships include a stipend, as well as support for research supplies and travel to scholarly meetings. Appointments are normally for two years, with the second year of funding dependent on progress and the development of active research interactions. Applicants should send an introductory cover letter, research interest statement, curriculum vitae, and names of three references to: Plant-Insect Interdisciplinary Program, Center for Insect Science, Attention: E.A. Bernays, Life Sciences South Building, Room 225, University of Arizona, Tucson, AZ 85721. Applications will be accepted throughout the month of May, 1995. Please note that according to the conditions of the grant, fellowship recipients must be citizens or permanent residents of the United States. Women and minorities are urged to apply. *The University of Arizona is an Affirmative Action/Equal Employment Opportunity/ADA Employer.*

POSITIONS OPEN

THE NEUROSCIENCES INSTITUTE LA JOLLA CELLULAR NEUROPHYSIOLOGY

Applications are invited for the **POSTDOCTORAL POSITION** of Junior Fellow in Experimental Neurobiology to study synaptic physiology, plasticity, and specificity in mammalian neocortex using state-of-the-art brain slice methodologies. Applicants should have a background in electrophysiology and an interest in developmental neurobiology. Fellows will receive stipends appropriate to their qualifications and experience. Submit a curriculum vitae, statement of research interests, and names of three references to: **Dr. Ronald B. Langdon, The Neurosciences Institute, 3377 North Torrey Pines Court, Suite 310, La Jolla, CA 92037. FAX: 619-554-9159.**

POSTDOCTORAL POSITIONS GENE MAPPING/EXPRESSION

USDA, Agricultural Research Service (ARS), U.S. Meat Animal Research Center, Clay Center, Nebraska has **POSTDOCTORAL RESEARCH ASSOCIATE** positions available immediately in a group developing high resolution linkage maps for livestock. Candidates with a strong background in molecular biologic techniques are encouraged to apply. Excellent facilities and established reference families provide a unique opportunity in this high priority ARS program. Minimum starting salary \$35,578. Send curriculum vitae and names of three references to: **Dr. Craig W. Beattie, U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933. USDA-ARS is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION Macromolecular Structure

Position available immediately to develop computational applications of real-space refinement for macromolecular structure analysis. The research will require a knowledge of programming (C, FORTRAN), numerical methods and familiarity with diffraction theory and crystallographic methodology. Forward résumé and three letters of reference to: **Dr. Michael Chapman, Institute of Molecular Biophysics, Florida State University, Tallahassee, FL 32306-3015. Florida State University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available to study the transcriptional regulation of the human choline acetyltransferase gene using cell transfection and transgenic mouse models. Experience in molecular biological techniques an asset. Send curriculum vitae and letters of recommendation to: **Dr. Louis B. Hersh, Department of Biochemistry, University of Kentucky, Lexington, KY 40536-0084. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately for research on physico-chemical and immunological evaluation of recombinant cross-reacting mutants of diphtheria toxin as vaccines against diphtheria. Ph.D. in Microbiology, Immunology or related subject with strong background in development and evaluation of vaccines. Salary \$25,000 annually. Send curriculum vitae with names of three references to:

**Theobald Smith Public Health Services Laboratory
Personnel Office
305 South Street
Jamaica Plain, MA 02130**

POSTDOCTORAL POSITIONS—Marine Biomaterials are available immediately for postdoctoral research associates to investigate the relationship between gene expression and the biosynthesis of structural biomaterial such as byssus having well defined protein gradients. (*J. Exp. Biol.*, March 1995) We are looking for someone with experience in molecular biology and well-grounded in the principles of integrative and organismal biology.

These are three-year, full-time positions at starting salaries of \$25,000 to \$32,000 per annum. To apply send a cover letter with curriculum vitae and the names, addresses, and telephone numbers of at least three references to: **Dr. Herbert Waite, College of Marine Studies, University of Delaware, Newark, DE 19716. FAX: 302-831-6335. An Equal Opportunity/Affirmative Action Institution.**

POSITIONS OPEN



POSTDOCTORAL RESEARCH SCIENTIST/ Associate Research Scientist to study molecular basis of cancer. Experience in molecular biology (cDNA library construction and screening, subtraction hybridization, vector construction, retrovirus construction and sequencing). Position(s) available immediately. Salary negotiable. Contact: **Dr. Nurul Sarkar, Medical College of Georgia, Augusta, GA 30912. Telephone: 706-721-7657; FAX: 706-721-7507. Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available July 1, 1995, to study the function of the osmoregulatory Na⁺/myo-inositol cotransporter in regulation of membrane signal transducing inositolphospholipids and cellular levels of organic osmolytes. Molecular and cellular approaches include cloning, DNA and protein expression analysis and transgenic modeling. Background in molecular biology is required. Send curriculum vitae and names of three references to:

**Gerard T. Berry, M.D.
Division of Biochemical Development
and Molecular Diseases
The Children's Hospital of Philadelphia
34th Street & Civic Center Boulevard
Philadelphia, PA 19104**

The Children's Hospital of Philadelphia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available immediately to investigate the recently discovered Kaposi's sarcoma associated herpes-like virus (*Science*, 266:1865, 1994). Ph.D. and/or M.D. virologists, molecular biologists and immunologists are needed to isolate, purify and characterize the virus, and investigate the mechanisms involved in transmissibility and oncogenesis.

Submit curriculum vitae and three references by mail or FAX to: **Dr. Daniel M. Knowles, Professor and Chairman of Pathology, Cornell University Medical Center, 525 East 68th Street, New York, NY 10021. FAX: 212-746-8192. Equal Employment Opportunity/Affirmative Action/Minority/Female.**

POSTDOCTORAL POSITION available immediately to study membranes and membrane-protein interactions via computer simulations. Requirements include extensive experience in computer simulations, thorough knowledge of statistical mechanics, and expertise in Fortran and UNIX. Experience in parallel programming, density functional theory and quantum statistical mechanics is desirable. Send curriculum vitae to: **Prof. Andrew Pohorille, Department of Pharmaceutical Chemistry, University of California, San Francisco, CA 94143. Email: pohor@cgl.ucsf.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION to study the cell biology of antigen presentation and regulation of MHC class II antigens. Studies will focus on understanding antigen processing, defining novel genes modulating presentation, and investigating the intracellular trafficking of self and foreign antigens. Send curriculum vitae, names and telephone numbers of three references to: **Dr. J. S. Blum, Department of Microbiology and Immunology, Indiana University School of Medicine, 635 Barnhill Drive, Room 247, Indianapolis, IN 46202-5225. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION is available immediately to study the role of the inositol phosphate cascade in signal transduction. Experience with single cell electrophysiology, microinjection and microfluorimetry is highly preferred. The position is available for up to three years. Applicants should forward curriculum vitae, description of previous research experience and names of three references to: **Dr. Alan Fein, Department of Physiology, University of Connecticut Health Center, Farmington, CT 06030-3505. An Affirmative Action/Equal Opportunity Employer. Minority/Female/People with Disabilities/Veteran.**

POSITIONS OPEN

POSTDOCTORAL POSITION

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to examine the interaction of molecular motors with microtubules. The project will utilize dyneins from the flagella of *Chlamydomonas* as a model system and will involve both biochemistry/molecular biology approaches coupled with classical/molecular genetic analysis. A strong background in biochemistry and/or molecular biology is required. Interested applicants should send a curriculum vitae and the names and addresses of three references to: **Dr. Stephen King, Department of Biochemistry, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06032. Informal enquiries may be made by telephone: 203-679-3347, or by Email to: king@mbcg.uchc.edu.**

An Affirmative Action/Equal Opportunity Employer. Minority/Female/People with Disabilities/Veteran.

POSTDOCTORAL POSITION

Well-known French company offers a one-year **POSTDOCTORAL POSITION** in one of its laboratories in the south of France to study *in vitro* protein kinases activity regulation with a special interest in protein kinase C and its numerous isozymes. The roles of known, and most importantly, original activators and inhibitors of protein kinases will be studied.

The candidate will have a Ph.D. in biochemistry and a strong background in enzymology. In addition, but not necessarily, he or she will have a good experience with protein kinases.

Please send detailed curriculum vitae to: **K. Keppel, Elf Aquitaine, Inc., 1899 L Street NW, Suite 500, Washington, DC 20036.**

POSTDOCTORAL POSITION PENN STATE

Position to study blood cell interaction and adhesion to endothelium in the microcirculation using techniques of intravital microscopy. Applicants should have a Ph.D. in bioengineering, physiology, or related disciplines and experience in working with anesthetized animals, microsurgical techniques and image processing. Send curriculum vitae and the names of three references, by May 1, 1995, to: **Dr. Herbert H. Lipowsky, Department of Bioengineering, Pennsylvania State University, 233 Halllowell Building, University Park, PA 16802 or Email to: hhlbio@engr.psu.edu. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.**

ASSOCIATE SCIENTIST AND POSTDOCTORAL POSITIONS

To work in the established laboratory of **Dr. Kenneth Baker** on one of three areas: a) molecular biology and regulation of angiotensin II (AII) receptors; b) regulation of renin-angiotensin system genes in cardiac cells; or c) molecular signal transduction pathways for AII in primary cardiac and propagated cell lines. A Ph.D. and/or M.D. is required with background and experience in biochemistry, molecular and cellular biology. Salary will be commensurate with education and experience. Applicants should send curriculum vitae, official transcripts and three letters of reference to: **Geisinger Human Resources (KB), 100 North Academy Avenue, Danville, PA 17822-1529. Equal Opportunity Employer/Minority/Female/Disabled/Veteran.**

POSTDOCTORAL FELLOW POSITIONS ATHEROSCLEROSIS/MOLECULAR MECHANISMS

Position available to study structure-function relationships of apoA-I. Studies will include molecular, biophysical, and enzymatic studies utilizing protein derived from a baculoviral expression system. Experience in Biochemistry and Molecular Biology necessary. Applicant must have been supported less than three years on a training grant and be a citizen or permanent U.S. resident.

Send curriculum vitae and names of three references to:

**Dr. Mary Sorci-Thomas
Department of Comparative Medicine
Bowman Gray School of Medicine of
Wake Forest University
Medical Center Boulevard
Winston-Salem, NC 27157
FAX: 910-716-6279**

Affirmative Action/Equal Opportunity Employer.

Postdoctoral Fellow Cardiac Muscle Gene Regulation

A postdoctoral position is available in the Department of Cardiovascular Therapeutics, to participate in a research program directed toward identifying mechanisms that regulate cardiac muscle-specific gene expression in the normal and diseased heart.

Applicants with recent PhD's should provide evidence of quality experience in molecular biology related to transcriptional regulatory mechanisms and protein-protein interactions. Additional expertise in one or more of the following areas is preferred: integrative physiology; gene targeting by homologous recombination; or cell culture.

This position offers a competitive salary/benefits package and possible interactions with academic institutions and biotech companies as well as with our scientists in Ann Arbor. Candidates should send their curriculum vitae and the names of three references to, **PARKE-DAVIS Pharmaceutical Research, P.O. Box #DCS-2130, Human Resources, 2800 Plymouth Road, Ann Arbor, MI 48105.** "Smoke- Free Work Environment"



PARKE-DAVIS

People Who Care

"Equal Opportunity
in Action"

COME TO NIH AND HELP SHAPE THE FUTURE OF NEUROSCIENCE!

HEALTH SCIENTIST ADMINISTRATOR

The National Institute of Neurological Disorders and Stroke (NINDS), located in Bethesda, Maryland, seeks a science administrator in the Division of Fundamental Neurosciences. The person holding this position will advise and assist NINDS grantees doing fundamental research related to neurological diseases, and will be responsible for evaluating and planning the extramural research program of the Institute in this scientific area. Applicants are expected to have broad knowledge of, and interest in, contemporary neurobiological research. Successful applicants must possess a Ph.D. or M.D. (or equivalent degree) with postdoctoral training in research. Experience as head of a research laboratory with evidence of independent achievement is highly desirable, but not required.

This is a GS-13/14 Civil Service Position with a salary range of \$51,557 to \$79,200 per year for Ph.D.s and \$60,281 to \$84,710 for M.D.s. Physicians may additionally be eligible for a Physician's Comparability Allowance.

Applicants should submit a curriculum vitae, bibliography and a brief statement of your career plans to: **Ms. Christine Steyer, National Institutes of Health, NINDS Personnel Office, Building 31, Room 8A23, 31 Center Dr., MSC 2540, Bethesda, MD 20892-2540**, or you may fax your application to (301) 402-2818. For more information on the position or qualifications requirements, contact Ms. Steyer at (301) 496-6334. U.S. citizenship is required.

Applications must be submitted by May 1, 1995.

National Institutes of Health / Public Health Service
Department of Health and Human Services

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POSTDOCTORAL FELLOWSHIP

Gene Therapy

A position is available immediately to participate in research leading to the use of retrovirally transmitted genes to protect hematopoietic cells from the toxic effects of agents used in the chemotherapy of solid tumors. The research involves directed mutagenesis of cDNA for certain mammalian enzymes, the insertion of these cDNAs into retroviral vectors, and transduction of hematopoietic cells with corresponding viruses. Candidates should have a Ph.D. or M.D. with research experience in structure/function studies on proteins, cell biology, or a closely related discipline; experience with molecular biology techniques and/or cell culture is an advantage. Salary as for NIH fellowships. Relocation expenses reimbursed up to \$1,500, and professional development funds of \$1,000 annually. Send curriculum vitae with names of three references to: **Dr. Brian P. Sorrentino, Department of Biochemistry, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101.** Affirmative Action/Equal Opportunity Employer.



Protein Formulation

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

The Protein Formulation Department seeks several qualified individuals to play an integral role in a collaborative research team.

RESEARCH ASSOCIATES

Candidates must have a BS/MS in Chemistry, Biochemistry, or related field, as well as experience in protein characterization. Experience in one or more of the following protein characterization methods is highly desirable: electrophoresis, HPLC, radiolabeling, immunoassays, and spectroscopy. Industrial experience is also preferred.

At Amgen, you'll find our approach to scientific research as rewarding as it is effective. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks' vacation. Please mail your resume/c.v. to: **Amgen Inc., Staffing, Job Code: OXP-SC-2324-S, Amgen Center, Thousand Oaks, CA 91320-1789.** Principals only, please. For information on other research opportunities available at Amgen, please call 1-800-446-4007. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.

AMGEN

POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** available on July 1, 1995, to join a research group at the University of Pittsburgh investigating the functional architecture of the mammalian prefrontal cortex. Integrated studies focus on 1) the intrinsic connectivity of primate prefrontal cortex using tract-tracing, intracellular filling, immunocytochemical and electron microscopy techniques; and 2) the electrophysiological properties of prefrontal cortical neurons and synapses in monkey and rat slices using visually guided intracellular recordings with sharp microelectrodes or whole-cell pipettes. Strong background in neuroanatomy and/or cellular neurophysiology required. Applicants should submit curriculum vitae with names of three references, and a one-page statement of research experience. For position 1 contact: **Dr. David Lewis**, Departments of Psychiatry and Neuroscience, W1651 BST, 3811 O'Hara Street, Pittsburgh, PA 15213. Email: lewis@bns.pitt.edu. For position 2 contact: **Dr. German Barrionuevo**, Department of Neuroscience, 446 Crawford Hall, Pittsburgh, PA 15260. Email: german@bns.pitt.edu. *Equal Opportunity Employer.*

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

The Department of Neurology, Columbia University offers a full-time laboratory-based research position for two years beginning July 1, 1995, in the neuroimmunology laboratory of **Norman Latov, M.D., Ph.D.** Applicants must have a Ph.D. or a M.D. with expertise in molecular biology and immunology. The candidate will be expected to participate in ongoing research efforts investigating immune mechanisms of peripheral and central nervous system demyelination with particular emphasis on the pathogenesis of multiple sclerosis. Send curriculum vitae with names of three referees to: **Saud A. Sadiq, M.D., Department of Neurology, Black Research Building, Room 3-323, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH FELLOW

POSTDOCTORAL RESEARCH POSITION immediately available to study molecular mechanisms of corneal inflammation and wound healing, with special focus on protein phosphorylation including protein kinases and growth factors. Candidates must have a doctorate degree and experience in biochemical and molecular biological techniques. Experience in enzymology and protein biochemistry is desirable. Send curriculum vitae and names of three references to: **Haydee E. P. Bazan, Ph.D., LSU Eye Center, 2020 Gravier Street, Suite B, New Orleans, LA 70112.** *Louisiana State University Medical Center is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOW, University of California, San Francisco (UCSF). Postdoctoral position available immediately to study the molecular basis of central nervous system adaptation to ethanol. The specific project available focuses on mechanism of transcriptional regulation by ethanol. Goals include identification of ethanol-responsive transcriptional regulatory factors and signaling cascade(s) involved in ethanol action. Experience in molecular biology is required. Experience with transcriptional regulation and signal transduction is preferred. Applicants must have a Ph.D. in biochemistry, molecular biology or related field. Please send curriculum vitae, brief summary of research experience, and three letters of reference to: **Michael F. Miles, M.D., Ph.D., University of California, Department of Neurology, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOW. Applications are invited for an immediate postdoctoral fellowship in programmed cell death. Candidates must have a Ph.D. or M.D. with laboratory experience in molecular biology and protein analysis. Experience in transgenic mouse technology would be helpful. Studies will examine the genetic regulation of apoptosis in normal and malignant tissue. Submit curriculum vitae and the names of three references to: **Mike Clarke, M.D., University of Michigan Medical School, MSRB II, Room C570A, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0668.** FAX: 313-763-4226. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE SUNSPOT, NEW MEXICO

The National Solar Observatory invites applications for the post of **RESEARCH ASSOCIATE** at its Sacramento Peak site at Sunspot, New Mexico. The National Solar Observatory operates a suite of world-class solar telescopes and instruments for the benefit of U.S. and foreign astronomers.

The successful applicant will participate in a long-term program of research into the origins of solar variability. Surface flows, magnetic structure and evolution and global photometric variations are topics of current interest. Instrumental development programs include adaptive optics, CCD data acquisition systems and infra-red camera systems. Requirements include a Ph.D. in Astronomy or Experimental Physics. Experience in developing astronomical instrumentation is desirable. The position is available initially for one year, renewable for up to three years, depending on funding. For more information, contact: **J. Beckers: 602-325-9328; Email:jbeckers@noao.edu.** Send applications before April 30, 1995, to: **Ms. Revell Rayne, NOAO Human Resources Manager, P.O. Box 26732, Tucson, AZ 85726.** *We act affirmatively to employ women, minority group members and protected classes of disabled persons, disabled veterans and veterans of the Vietnam Era; to be considered, let us know.*

RESEARCH ASSOCIATE V (Postdoctoral) Position available July 1, 1995, pending final approval, for a one year appointment that is renewable for additional year. We seek outstanding individual to participate in ongoing research on fisheries transport/recruitment mechanisms within coastal, estuarine and artificial reef environments. A Ph.D. in Fisheries Oceanography or Marine Sciences and a strong background in age, growth and mortality analyses involving larval and juvenile fish is required. Fisheries modeling experience is desired. Application deadline is May 15, 1995, or until candidate is selected. Submit curriculum vitae, statement of research interests, and names, addresses and telephone numbers of five references to: **Dr. Richard F. Shaw, Director, Coastal Fisheries Institute, Wetland Resources Building, Louisiana State University, Baton Rouge, LA 70803.** *Louisiana State University is an Equal Opportunity/Affirmative Action Employer.*

Regents' Research FELLOWSHIPS in animal disease biology. Training in research programs emphasizing molecular and immunological aspects of bacterial, viral, and parasitic infections. Highly competitive stipends funded through the Louisiana Education Quality Support Fund. Quality through success achieved in microbiological, immunological, biochemical, or veterinary biomedical studies, competitive GPA and GRE scores, and U.S. resident status. Applicants should contact: **Dr. J. Storz, Department of Veterinary Microbiology and Parasitology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.** *Louisiana State University is an Affirmative Action Employer.*

STAFF ASSOCIATE. Staff Associate in Pharmacology at Columbia University. Ph.D. degree required. Responsibilities include supervision of personnel, fabrication of electrodes, preparation of solutions, assisting with experiments, ordering supplies. Please send curriculum vitae, and names of three references to: **Dr. Michael R. Rosen, Department of Pharmacology, College of Physicians & Surgeons of Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE RESEARCH SCIENTIST. The Department of Pharmacology invites applications for the position of Associate Research Scientist in Pharmacology. This is a non-tenure-track annual research appointment. We seek a candidate who will work on cardiac arrhythmias in animal models as well as on ion channel behavior in cells from diseased hearts. Qualifications for this position include training in cardiac electrophysiology/pharmacology with Ph.D. required; experience in electrical mapping techniques desired; experience in single channel/whole cell patch clamp techniques required. Please send curriculum vitae, and names of three references to: **Dr. Penelope A. Boyden, Department of Pharmacology, College of Physicians & Surgeons of Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

PRECLINICAL DEVELOPMENT

A growing pharmaceutical research center of a leading international petrochemical company has several openings in its preclinical development program for the following positions: **Molecular Modeling SCIENTIST:** A candidate will have a Ph.D. degree in physical/organic chemistry or a M.S. degree with a minimum of three years of industrial experience. (Position No. P95-10). **Bioanalytical Chemist:** A candidate will have a M.S./B.S. degree in organic/analytical chemistry/biochemistry with a minimum of two years of industrial experience. Experiences with sample preparation and method development a must. Skills with HPLC/GC and other analytical instruments a plus. (Position No. P95-20). **Pharmacologist:** A candidate will have a M.S./B.S. degree in pharmacology with a minimum of two years of industrial experience in CNS *in vivo* pharmacology. Must have experience in animal surgery. Analytical skill a plus. (Position No. P95-30/40). All positions require excellent communication skills. If interested, send résumé, with cover letter indicating job position number, in confidence to: **YuKong Limited, P.O. Box 10271, Fairfield, NJ 07004.**

BEHAVIORAL SCIENTIST

Established, independent but team-oriented **INVESTIGATOR** in Behavioral Neurotoxicology or Behavioral Pharmacology/Behavioral Genetics with research emphasis on toxic mechanisms relevant to occupational health is sought by growing multidisciplinary research institute focused on the brain and behavior. Start-up funds, competitive salaries (50% state-supported), and generous benefits package. Applications accepted until position filled; reviews to begin May 1, 1995.

Send curriculum vitae, references, and a statement of research interests to: **W. Kent Anger, Chair, Behavioral Scientist Search Committee, Center for Research on Occupational and Environmental Toxicology L606, Oregon Health Sciences University, 3181 SW Sam Jackson Park Road, Portland, OR 97201.** *Oregon Health-Sciences University is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH BIOCHEMIST

We seek a biochemist to perform protein characterization and apply/develop purification methods within our multidisciplinary program on fundamental aspects of protein crystallization. M.S. or higher degree required, as well as experience with gel electrophoresis and liquid phase chromatography methods. Familiarity with Pharmacia's PhastSystem and FPLC unit is desirable. Send application, curriculum vitae and two references as soon as possible to: **Prof. Franz Rosenberger, Center for Microgravity and Materials Research, RI-M65, University of Alabama in Huntsville, Huntsville, AL 35899.** FAX: 205-895-6791. *University of Alabama in Huntsville is an Equal Opportunity/Affirmative Action Employer.*

LEAD AUDITOR (Chemical Industries). Responsible for operating proprietor's ISO 9000 Quality Standards registration program. Specific duties include: respond to customer inquiries about ISO 9000 registration services, e.g., the benefits of participating in the ISO 9000 program; and the different levels and types of ISO 9000 registration services provided by the proprietor; conduct Desk Audits of client company's quality control manual; conduct Pre-assessment Audits, Registration Audits, and Surveillance Audits of client company's quality management systems, in the capacity of Lead Auditor; prepare Registration Audit Reports and recommend registration under the applicable ISO 9000 series standard; and prepare and monitor audit schedules of auditors and auditors-in-training. Must have B.S. in Chemistry or Quality Management. Academic program must have included one course each in the following areas: Auditor Training, ISO 9000 Series Training, Effective Quality Audits, Basic Statistical Process Control, Administrative Supervision, and Lotus 1-2-3 Introduction. Must have four years in job described or four years of experience as quality control supervisor in chemical industry. Experience must have included at least four desk audits. 40 hours per week, 8:00 am to 5:00 pm, \$45,000 per year. Must have proof of legal authority to work indefinitely in the United States. Employer paid ad. Send résumé and course transcript in duplicate to: **Michigan Employment Security, 7310 Woodward Avenue, Room 415, Detroit, MI 48202.** Reference No. 26795.

INJURY → INFLAMMATION → FIBROSIS

FIBROGEN, INC. is an emerging biotechnology company committed to the development of therapeutics for the treatment of fibrotic diseases and excessive scarring. This has been a common, serious, and difficult area -- until now. FibroGen's extensive worldwide cooperation with university scientists has prompted the development of lead compounds which block fibrosis and collagen deposition. In addition, new treatments for inflammatory diseases, the aging of skin and other connective tissue disorders are under development. Cell and animal models relevant to human disorders are also to be undertaken. Other key areas will involve evaluating drug delivery systems and toxicity as well as pro-drug development.

FibroGen is currently building an active, in-house team at all levels. We are looking for individuals in the following areas:

ORGANIC DRUG SYNTHESIS

MEDICINAL CHEMISTRY

PHARMACOLOGY

BIOCHEMISTRY

CELL BIOLOGY

ANIMAL PHYSIOLOGY

ASSAY DEVELOPMENT

The successful candidates for our new team will assess the potency of enzyme inhibitors as modifiers of collagen synthesis in vitro, in tissue and cell culture, as well as in animal models. They will synthesize modified forms of enzyme inhibitors, develop drug delivery systems, and evaluate toxicity.

FibroGen has recently opened a new laboratory facility in the San Francisco Bay Area. To learn more about our company and our current activities, we invite you to send your C.V./resume to: **FibroGen, Inc., 772 Lucerne Drive, Sunnyvale, CA 94086** or fax to: (408) 720-7212. We are an equal opportunity employer.

FIBROGEN

Research
Molecular Biologists



At Pfizer,
we're focused
on discovery.

Discovering and developing innovative Animal Health Products is our focus. The recent acquisition of SmithKline Beecham's animal health operations made us the premier animal health company in the world. We now have enhanced research and development capabilities to support a broadened product line and a greater and more balanced global presence.

With a team-oriented environment, new laboratories and cutting-edge technologies, we are poised to find breakthrough vaccines for the global market. Our Molecular Biology department, part of the Pfizer Animal Health Research & Preclinical Development operations in Lincoln, NE has immediate opportunities for:

Bacteriology Molecular Biologist

You will design and conduct highly integrated and contemporary approaches to new biological animal vaccine discovery within a project team environment, and may also be responsible for teaching and supervision of junior level scientists. To qualify, you must hold a Ph.D. or equivalent in microbiology with at least 2 years of relevant postdoctoral experience in molecular biology of bacteria, particularly with bacterial genetic manipulation and strain construction, bacterial expression, and bacterial pathogenicity models.

Gene Cloning and Expression

You will head a small laboratory responsible for gene isolation and expression, providing hands-on expertise to staff members. To qualify, you must hold a Ph.D. or equivalent in microbiology, with at least 5 years of relevant postdoctoral experience in mammalian, yeast, Baculovirus, or Bacterial expression systems (at least two systems).

You will design and conduct experiments leading to cloning of desired target genes and their most appropriate expression and the manipulation of expression systems to achieve maximal levels. To qualify, you must have a Ph.D. or equivalent in microbiology or cell biology with 2-plus years of relevant postdoctoral experience in construction of genomic and DNA libraries having a variety of expression systems (mammalian cell, yeast, Baculovirus, and E-coli).

You will conduct general research in gene isolation, cloning, and expression. To qualify, you must have a master's degree or equivalent in microbiology with 2-plus years of experience in contemporary molecular biological techniques, including DNA manipulation, RNA isolation, and one or more expression systems.

Viral Molecular Biologist

You will design and conduct contemporary experiments on RNA viruses for the discovery of biological animal vaccines. To qualify, you must have a Ph.D. or equivalent in microbiology or biochemistry with at least 2 years of relevant postdoctoral experience with RNA viruses, including retroviruses or coronaviruses, with the ability to manipulate RNA using contemporary techniques.

In addition to opportunities to interact with one of the world's finest corporate scientific communities, you will enjoy the many recreational and educational amenities of our community and its friendly, family-oriented Midwestern lifestyle. Relocation assistance is available. Please send detailed resume to: Employee Resources, Biological R&D, 601 West Cornhusker Highway, Lincoln, NE 68521.

We are an equal opportunity employer. M/F/D/V.



Central Research

ASSISTANT VICE PRESIDENT RESEARCH ADMINISTRATION

Saint Louis University Health Sciences Center, a division of Saint Louis University, invites nominations and applications for the position, Assistant Vice President for Research Administration. As the chief research officer reporting directly to the Vice President for the Health Sciences Center, this individual will provide resources throughout the Health Sciences Center to encourage and promote research activities; will coordinate the exchange of information across departmental boundaries; will provide advice and counsel to the Institutional Review Board and the Animal Care Committee; and will foster collaboration among researchers. Also, this position will be responsible for overseeing research programs with specific responsibilities in the following areas: use of human and animal subjects in research; research laboratory safety issues; coordinator of patient activities, intellectual property rights, royalty agreements and copyrights; conflict of interest issues and material transfer agreements. This Assistant Vice President will develop and monitor research policies which will comply with both University and statutory regulations and provide leadership to the Health Sciences Center Research Administration Office.

The Health Sciences Center is seeking an individual who has a proven record in collaboration and success in a complex academic research environment. Relevant experience with NIH, NSF, AHCPR, VA HSR&D or with other research sponsors will be an important consideration. Proven success is essential in developing effective working relationships with financial officers, government and community representatives, legal counsel, as well as researcher/investigators.

Candidates will be required to possess an earned doctorate (Ph.D., M.D./Ph.D., or the equivalent) in science medicine, dentistry, nursing, allied health professions, public health, health services, research or a related discipline. Several years of relevant health-sciences research is important with experience in university level research administration. Effective interpersonal and management skills will be important for success in this key position.

Send resume to Search Committee, Assistant Vice President for Research Administration:

c/o Janette Taaffe, Recruitment Supervisor
Saint Louis University
Health Sciences Center
3635 Vista at Grand
P.O. Box 15250
St. Louis, Mo. 63110-0250
Equal Opportunity Employer.

Postdoctoral Fellowship in Plant-Insect Interactions

The Interdisciplinary Research Training Program (RTP) on Plant-Insect Interactions at the University of Arizona invites applications for a Postdoctoral Fellowship focusing on the molecular and genetic analysis of plant sterol metabolism. The RTP is funded by the DOE/NSF/USDA Joint Program on Collaborative Research in Plant Biology. Its overall goals are to provide effective interdisciplinary training in plant and insect sciences and to develop a better understanding of the complex interactions between plants and insects to serve as a guide for genetic engineering of plants for protection against insect attack. In this particular case, the position is part of a long-term program directed at increasing our understanding of higher plant sterol synthesis at the molecular level by isolating and studying biosynthetic and regulatory genes involved in this pathway. A molecular genetic approach is underway to identify key sterol biosynthetic enzymes by 1) complementation of yeast sterol biosynthetic mutants with functional plant homologs and 2) identification of plant genes by heterologous probes and database searches. To date several candidate genes have been isolated by these methods. The successful candidate will participate in ongoing screening and perform molecular characterization, complementation and analysis of one class of clones already identified. Previous experience in molecular biology, genetics, biochemistry or yeast complementation is desirable. For more detailed information, please contact E.A. Bernays (schistos@ccit.arizona.edu), K. Feldmann (feldmann@ccit.arizona.edu), or D.W. Galbraith (dgalbrai@ccit.arizona.edu).

Fellowships include a stipend, as well as support for research supplies and travel to scholarly meetings. Appointments are normally for two years, with the second year of funding dependent on progress and the development of active research interactions. Applicants should send an introductory cover letter, research interest statement, curriculum vitae, and names of three references to: Plant-Insect Interdisciplinary Program, Center for Insect Sciences, Attention: D.W. Galbraith, Life Sciences South Building, Room 225, University of Arizona, Tucson, Arizona 85721. Applications will be accepted throughout the month of May, 1995. Please note that according to the conditions of the grant, fellowship recipients must be citizens or permanent residents of the United States. Women and minorities are urged to apply. *The University of Arizona is an Affirmative Action/Equal Employment Opportunity/ADA Employer.*

RESEARCH OPPORTUNITIES IN TROPICAL FORESTRY !

The International Institute of Tropical Forestry, located in Rio Piedras, Puerto Rico, is a unit of the USDA Forest Service. The Institute's research and development mission is to **develop and disseminate knowledge of scientifically sound practices that contribute to sustainable use of tropical forest resources, the conservation of primary forests, the rehabilitation of degraded lands and the management of tropical forests, wildlife, and watersheds in tropical America.**

Applications are invited for three PhD level positions to strengthen the Institute's programs.

Research Biologist/Forest Products Technologist/Botanist - Research relates to the development of practices to optimize the culture, production and marketing of non-timber forest products in support of sustainable use of tropical ecosystems. Starting salary range \$40,000 to \$48,000.

Research Forester/Forest Ecologist - Research focuses on the development of models of secondary forests, organization and management of large, long term data sets, and serves as a statistical resource for other scientists at the Institute. Starting salary range - \$40,000 to \$48,000.

Research Economist - Research related to resource economic analysis addressing the problem of market and non-market values of tropical forest ecosystems. Starting salary range - \$40,000 to \$48,000.

For information about applications and further details about the positions and closing dates, contact: Wanda Marrero at 809 766-5335 or FAX 809 766 6302.

We anticipate filling the following position in the near future.

Assistant Director - Research - Combines a strong research role in any discipline related to tropical forestry with a broad range of managerial activities which provide a work environment that stimulates high productivity and high morale by a diverse group of scientists and support personnel in a culturally diverse atmosphere. Starting salary range- \$56,000 to \$66,000.

Contact Bill Edwards at 809 766 5335, FAX 809 766 6302 or by mail at:

PO Box 25000
Rio Piedras, Puerto Rico 00928-5000

Ability to live and work in a culturally diverse setting as well as language capability in Spanish and/or Portuguese are required.

Starting salary is dependent on the qualifications of the individual. A cost of living adjustment, currently 10 percent, would be added.

The US Department of Agriculture is an Equal Opportunity Employer.

PATHOLOGY **RESEARCH PROFESSOR**

The Pathology Department of Pathology, SUNY Health Science Center at Syracuse, is accepting applications and nominations for **Endowed Research Professor**. The successful candidate should have an MD or PhD degree (in one of the basic biological sciences), and a distinguished record of achievement in research and demonstrated excellence in education. The applicant is expected to maintain a vigorous and productive research program, facilitate the research programs of the department and contribute to the training of young investigators in biomedical research and molecular pathology. The department has diverse research interest and faculty collaborate with members of other departments. Rank listed as Associate Professor/Professor, depending on qualifications and experience. Review of applications will begin immediately and continue until the position is filled. Send CV, supporting information and names of three references to Frederick Davey, M.D., Chair of Endowed Research Professor Committee, Department of Pathology, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, New York 13210. Phone (315) 464-5739. SUNY-HSC is an AA/EEO/ADA employer, committed to achieving excellence through cultural diversity. Nominations of women, persons of color and members of the underrepresented groups are encouraged.



THE R. W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
a Johnson & Johnson company

The R. W. Johnson Pharmaceutical Research Institute performs R&D activities for the Johnson & Johnson pharmaceutical companies; Cilag, Ortho-McNeil Pharmaceutical, and Ortho Biotech.

R.W. Johnson Pharmaceutical Research Institute, La Jolla is engaged in a program to identify novel drug targets. Using a combination of molecular subtraction, bioinformatics, and protein expression we are developing novel high throughput drug screening assays. We are seeking highly qualified scientists for the following positions:

Gene Discovery

Associate scientist in molecular biology. Qualifications: B.S. plus 2-3 years expertise in PCR, RNA extraction, subcloning is required. Experience in cDNA library construction is advantageous.

Senior associate scientist in molecular biology. Qualifications: B.S. plus 5 years experience. Familiarity with differential display technologies is advantageous.

Protein Expression

Associate scientist in protein chemistry. Qualifications: B.S. plus 2-3 years experience in recombinant protein expression and purification.

Assay Development

Associate/Senior Associate Scientist in protein chemistry/biochemistry. Qualifications: B.S. and experience in a wide variety of in vitro assays. Experience in developing and validating high throughput screening assays is desirable.

These positions are provided liberal research support, excellent library facilities and a good benefits package as part of Johnson & Johnson, the world's largest and most comprehensive provider of health care products. Please submit your curriculum vitae to: Human Resources Manager, R. W. Johnson Pharmaceutical Research Institute, 3535 General Atomics Court, Suite 100, San Diego, CA 92121. Equal Opportunity Employer M/F/D/V.

Expanding Minds

Improving Bodies

At Chiron, our sights are set on helping people be their best. Whether they're benefiting from our biotech breakthroughs ... or working with us to make it happen. Scan the following for an opportunity to transform your life and the practice of medicine.

Scientist - You will supervise and assist in the development of DNA assays required to support therapeutic and vaccine product development. Additionally, you will develop assays to monitor nucleic acid host impurities, plasmid identity and copy number; write protocols and validation reports; and develop DNA assays for release of final product and transfer to QC.

The qualified candidate will possess a Ph.D. with three years, or M.S. and five years of experience, or equivalent experience in molecular biology or related field. Five or more years experience in quantitation of DNA; experience with dot blot hybridization (isotopic and nonisotopic), assay development, and validation are also required. Demonstrated knowledge in PCR and threshold assay techniques preferred. The ability to work independently together with strong problem-solving and communication skills are essential.

If you have the dedication, spirit and flexibility to rise to our many challenges, send your resume to: Chiron Corporation, Human Resources, Box #95-042, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer.



CHIRON

WHERE GREAT CAREERS COME TOGETHER



Chairperson and Endowed Professorship Department of Environmental Health

The College of Medicine University of Cincinnati

Applications and nominations are invited for the CHAIR of the Department of Environmental Health and the Schmidlapp ENDOWED PROFESSORSHIP. The person filling this position will assume the leadership of a strong, well-funded, nationally recognized department with major areas of expertise in molecular and cellular toxicology, carcinogenesis, environmental hygiene and chemistry, occupational medicine, biostatistics, epidemiology, and policy and risk assessment. Collaborative research and training programs involve the Colleges of Medicine, Engineering, and Arts and Sciences, and the Children's Hospital Research Foundation. The CHAIR will have the opportunity to expand the department in new directions and lead the recruitment of another endowed professorship within the department. The department currently has 38 full-time faculty members, more than 100 graduate students and postdoctoral fellows, and is housed in an independent research complex with recently constructed laboratory, office and classroom space.

We seek an individual with an internationally recognized research program in any aspect of environmental health science and a strong commitment to graduate biomedical education. The successful candidate must have a Ph.D., M.D., or equivalent degree and an established, well-funded research program. Preference will be given to individuals with demonstrated leadership skills and vision for the future advancement of environmental health science.

Interested applicants should submit a curriculum vitae (including publications, funding history, and graduate educational activities) and the names of at least three references to:

Dr. David Millhorn
Chair, Search Committee
Chairman, Department of Molecular and Cellular Physiology
College of Medicine
University of Cincinnati
PO Box 670576
Cincinnati OH 45267-0576



Review of candidates will begin immediately and continue until a suitable candidate is selected.

The University of Cincinnati is an affirmative action/equal opportunity employer. Women, minorities, disabled persons, Vietnam era and disabled veterans are encouraged to apply. UC is a smoke-free work environment.

St. Jude Children's Research Hospital

Department of Biochemistry

Postdoctoral Fellowships

The Biochemistry Department offers a highly interactive environment for postdoctoral research with a focus on the molecular and cellular biology of signal transduction. The research programs within the Department offer recent Ph.D. or M.D. graduates comprehensive training in a large variety of contemporary molecular and biochemical techniques. Laboratory facilities are housed in a new 220,000 sq. ft. research facility. SJCRH offers competitive salaries and fringe benefits. Current research programs within the Department include:

- Paul K. Brindle:** Regulation of transcription by T cell receptor and cytokine receptor signaling pathways.
- John L. Cleveland:** c-Myc function in control of apoptosis, cell cycle progression and transcription.
- James N. Ihle:** Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.
- Paul A. Ney:** Transcriptional regulation of globin gene expression and erythroid differentiation.
- Suzanne Jackowski:** Cell cycle regulation of membrane phospholipid biosynthesis.
- Charles O. Rock:** Role of phospholipid-derived second messengers in growth factor signal transduction.
- Robert J. Rooney:** Regulatory mechanisms and biological properties of transcription factors regulated by the adenovirus E1A oncogene.
- Brian P. Sorrentino:** Use of drug-resistance vectors for hematopoietic cell directed gene therapy.
- Gerard P. Zambetti:** Function of p53 in tumor suppression and tumorigenesis.

Applicants should submit a brief statement of research interests, curriculum vitae and the names of three references to: **Biochemistry Departmental Fellowships, The Department of Biochemistry, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101.**



Donny Thomas, Founder

An Equal
Opportunity/
Affirmative
Action Employer

Kuwait Foundation
For The Advancement of Sciences



مؤسسة الكويت للتقدم

1995 Prize for Research and Studies of the Repercussions of the Iraqi Invasion of Kuwait

The Kuwait Foundation for the Advancement of Sciences has institutionalized a prize for research and studies of the repercussions of the Iraqi Invasion of Kuwait, to recognize distinguished accomplishments in the Arts, Humanities and Sciences. The Foundation, in establishing this Prize, is fulfilling its objectives in encouraging scientists and researchers to participate in studies of the effects and repercussions of the Iraqi Invasion of Kuwait and its aftermath.

The Prizes awarded annually in the following fields:

- A. Environmental Research
- B. Historical Research
- C. Psychological and Social Research
- D. Economic Research
- E. Story and Novel

Each Prize consists of a cash sum of K.D. 10,000/- (approx. U.S. \$33,000/-) and a Certificate of Recognition.

The Conditions for awarding the Prize:

1. Nominee or researcher should be a qualified and acknowledged as a practitioner in the specific field of the Prize.
2. The scientific research submitted must be innovative and distinctive in its ideas, of direct relevance to the State of Kuwait, and must represent a significant contribution to knowledge in the specific field of the Prize.
3. The scientific research submitted must be based substantially on original work undertaken and must be published (in the form of books or articles in the recognized scientific literature) during the period subsequent to the Iraqi Invasion of Kuwait.
4. The candidate should not have been awarded a prize for the submitted work by any other institution.
5. KFAS announces the Prizes and its conditions annually.
6. Nominations for these Prizes are accepted from individuals, academic and scientific centers worldwide. No nominations are accepted from political entities.
7. The results of KFAS decisions regarding the selection of winners are final and the works submitted for nominations will not be returned regardless of the outcome.
8. Nominations with five copies of the scientific research and any inquiry concerning the Prize should be addressed before 31/10/1995 to:

The Director General
The Kuwait Foundation for the
Advancement of Sciences

P.O. Box: 25263 Safat 13113, Kuwait
Tel: (+965) 2429780/Fax: (+965) 2403891
Telex: 44160 KEFAS

Tenure-Track And Postdoctoral Opportunities.

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

Tenure-Track Positions

Assistant Professor Equivalent

Immunology

Stephen E. Straus, MD

A tenure-track position is available for an MD or MD/PhD scientist to develop an independent research program on the nature and regulation of mucosal immune responses to viruses or bacteria. A record of imaginative bench research is required. Subspecialty training in Allergy/Immunology or Infectious Diseases is desirable. Space, a technician, postdoctoral fellows, research budget, and competitive salary are committed. Applicants must be US citizens or permanent residents. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Laboratory of Clinical Investigation (OE-74), NIAID, Building 10, Room 11N228, 10 CENTER DR MSC 1888, BETHESDA MD 20892-1888.

Molecular Genetics

Clifton Bogardus, MD

A position is available in Phoenix, Arizona to develop an independent research program into the genetic causes of diabetes mellitus in the Pima Indians in Arizona. Candidates should have experience in human molecular genetics including PCR-based genotyping, physical mapping, gene isolation and identification, and gene expression. Support by a technician, postdoctoral fellow and a fully equipped laboratory (~600 sq. ft.) will be provided. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Clinical Diabetes and Nutrition Section (OE-74), NIDDK, 4212 North 16th Street, Phoenix, AZ 85016.

Postdoctoral Positions

Immunology

Rachel R. Caspi, PhD

The research focuses on cellular and molecular mechanisms in T cell-mediated autoimmunity affecting the retina. The goal is to understand the normal development and the pathological breakdown of self-tolerance to retinal antigens, and to use this information to develop immunotherapeutic approaches to uveitis. Rodent models and clinical material are available. Applicants must have experience in cellular and/or molecular immunology. Laboratory of Immunology (OE-74), NEI, Building 10, Room 10N222, 10 CENTER DR MSC 1858, BETHESDA MD 20892-1858.

Signal Transduction and Oncogenesis

Jacalyn H. Pierce, PhD

The role of oncogenes, growth factors, growth factor receptors and "downstream" mitogenic signal transducing molecules in neoplastic and normal cell proliferation is being studied. Emphasis is placed on signaling pathways mediated through cytokine and tyrosine kinase-containing receptors. Candidates should have experience in molecular

and/or cellular biology techniques and less than five years of postdoctoral experience. Laboratory of Cellular and Molecular Biology (OE-74), NCI, Building 37, Room 1E24, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

Structural and Molecular Biochemistry

Kiyoshi Mizuuchi, PhD

A position is available to work on a structural and molecular biochemical study of the mechanism of the transpositional recombination reaction of phage Mu. Candidates should have a strong background in X-ray crystallography, enzymology, or molecular biochemistry and have less than five years of postdoctoral experience. Laboratory of Molecular Biology (OE-74), NIDDK, Building 5, Room 237, 5 CENTER DR MSC 0540, BETHESDA MD 20892-0540.

Transcriptional Gene Regulation

Keiko Ozato, PhD

Mechanisms of action of transcription factors involved in gene regulation mediated by interferon/virus or by retinoids/vitamin are studied. Functional interactions of these factors with the basal transcriptional machinery are studied using *in vitro* transcription assays. Genomic footprinting is used to study promoter occupancy in cells with targeted gene disruption. Candidates should have less than five years of postdoctoral experience. Laboratory of Molecular Growth Regulation (OE-74), NICHD, Building 6, Room 2A01, 6 CENTER DR MSC 6753, BETHESDA MD 20892-6753.

Additional Postdoctoral Fellowship Opportunities

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

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

To Apply

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



National Institutes Of Health

Office of Education

The NIH is an Equal Opportunity Employer



STA FELLOWSHIP PROGRAM

Postdoctoral Fellowships in Japanese National Laboratories

Introduction

The Science and Technology Agency (STA), an administrative organ of the Government of Japan, established the STA Fellowship Program in 1988 in order to offer opportunities for promising young foreign researchers in the fields of science and technology to conduct research at Japan's national laboratories and public research corporations (excluding universities and university-affiliated institutes).

The Program is also a response to calls from the international community of science and technology for greater international cooperation through the exchange of promising researchers.

Since Oct. 1, 1989, the Program has been managed by the Research Development Corporation of Japan (JRDC), a statutory organization under the supervision of STA, in cooperation with the Japan International Science and Technology Exchange Center (JISTEC). JRDC also has the strong support and cooperation of the Responsible Organizations listed in Table 1.

Fellowship Qualifications

The fellowships are open to young PhD holders of under 35 in principle, from universities, research councils, government research laboratories and industry. Any science or engineering discipline will be considered except military R & D.

Applicants should be of sufficient good health to pursue research activities in Japan.

Have sufficient language ability to pursue research activities in Japan, Japanese language ability is preferable, but English is sufficient in most cases. With the agreement of the host research institute, other languages may suffice.

Tenure and Field of Research

The tenure will be from 6 months to 2 years, to be decided upon through negotiation between the candidate and the host institute. The field of research will also be decided upon through negotiation between the candidate and the host institute, the results of research activities produced during the tenure will be subject to the regulations of the host institute.

Research field include: Mathematics; Physics; Geology; Electricity; Electrons; Information Engineering; Mechanics; Engineering Works; Architecture; Erosion Control; Landscaping; Chemistry; Metals; Resources Engineering; Medical Science; Pharmaceuticals; Agricultural Technology; Farming; Forestry; Fisheries; others in the Natural Science.

FELLOWSHIP AWARDS

Fellowships include round-trip air tickets (economy class; not available for dependents) and the following allowances:

- 1) Living allowance: 270,000 a month
- 2) Family allowance: 50,000 a month
- 3) Housing: Apartments will normally be provided to awardees. The apartment floor area is 40m² for awardees unaccompanied by their family and 60m² for awardees to stay with their family in other than metropolitan areas such as Tokyo. If an awardee prefers to use a larger apartment because of the family size or otherwise 106,000 maximum per month may be paid as housing allowance; any shortfall is to be borne by the awardee.
- 4) An initial international settling-in allowance: 200,000
- 5) An annual allowance of up to 115,000 for travel within Japan related to research activities.
- 6) Medical insurance (N.B. not available for dependents)

Assistance for Fellows

If they wish, Fellows may take advantage of the following assistance:

- 1) Free Japanese language courses for Fellows whose host research institutes are in Tsukuba area. Fellows whose institutes are located elsewhere are entitled to reimbursement of reasonable amounts for language tuition at a private school. (N.B. not available for dependents);
- 2) Since most apartments in Japan are unfurnished, basic furniture and electric appliances will be provided free of charge to Fellows;
- 3) Counseling on problems relating to such aspects of daily life as children's schooling, medical care and shopping, is available for Fellows living in Tsukuba area.

APPLICATION PROCEDURE FOR STA FELLOWSHIP (Fig 1)

Applicants possessing the nationality or citizenship or permanent resident status of a country listed in Table 1 should:

- 1) Contact the Responsible Organization in their country to obtain an application form and information about the host research institutes.
- 2) Communicate with host research institutes of interest to ascertain their suitability for the applicant's area of specialization.
- 3) After agreeing with the prospective host institute on the subject of research, the length of tenure and starting date for the Fellowship, the applicant should obtain from the institute a formal letter of acceptance expressing its willingness to serve as a host.
- 4) Submit the completed application form and the letter of acceptance to the Responsible Organization concerned. The Responsible Organization will then screen applicants, and submit its recommendations for Fellowship candidates to JRDC through JISTEC, accompanied by a complete dossier on the candidates.
- 5) JRDC will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The Responsible Organization and the host research institute concerned will also be informed in this respect.



GLOBAL CAREER OPPORTUNITIES

Fig. 1 Procedural Flow from Contact to Receipt of Award

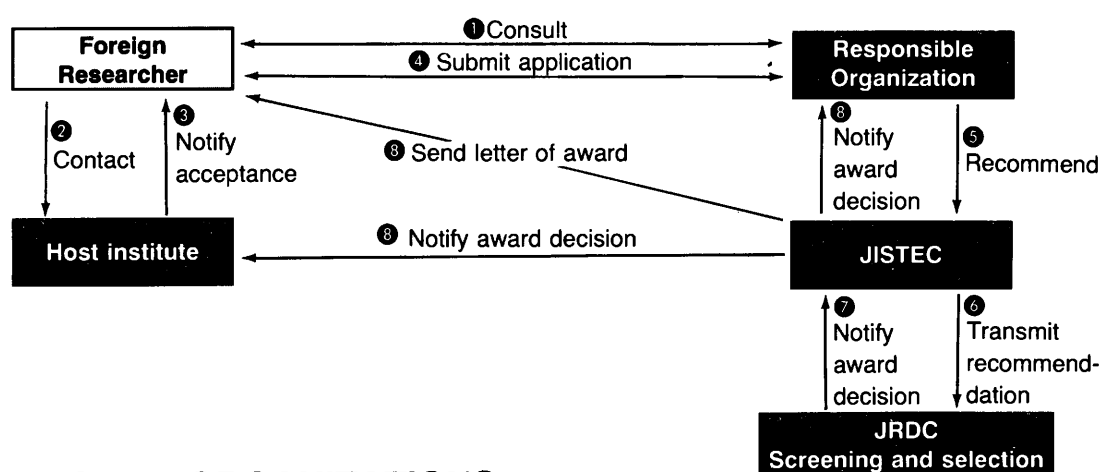


Table 1 RESPONSIBLE ORGANIZATIONS

Country	Contact		
AUSTRALIA	THE AUSTRALIAN ACADEMY OF SCIENCE Ms. Bonnie Bauld International Exchange Officer GPO Box 783, Canberra ACT 2601 Tel: 61-6-247-3966 Fax: 61-6-257-4620	NEW ZEALAND	MINISTRY OF RESEARCH, SCIENCE AND TECHNOLOGY Ms. Lisa Goodman International Science Officer P.O. Box 5336, Wellington Tel: 64-4-472-6400 Fax: 64-4-471-1284
AUSTRIA	FEDERAL MINISTRY FOR SCIENCE AND RESEARCH Ms. Susanna Peterka Administrative Officer, International Affairs Minoritenplatz 5, A 1014 Vienna Tel: 43-222-531-20-6794 Fax: 43-222-531-20-6205	NORWAY	THE RESEARCH COUNCIL OF NORWAY Ms. Else Boon Advisor P.O. Box 2700 ST. Hanshaugen 0131 Oslo Tel: 47-2-2037000 Fax: 47-2-2037001
CANADA	NATURAL SCIENCE AND ENGINEERING RESEARCH COUNCIL Ms. Dawn Conway Director, International Programs Constitution Square, Tower II 350 Albert Street, Ottawa, Ontario K1A 1H5 Tel: 1-1613-947-0190 Fax: 1-613-992-5337	SWEDEN	NUTEK Ms. Leena Holappa Administrative Program Officer Liljeholmsvägen 32, S-117 86, Stockholm Tel: 46-8-681-9100 Fax: 46-8-681-9625
GERMANY	ALEXANDER VON HUMBOLDT-STIFTUNG Dr. Michal Meier Department Sponsorship Abroad Jean-Paul-Str. 12, D-53173 Bonn Tel: 49-228-833-101 Fax: 49-228-833-199	SWITZERLAND	SWISS NATIONAL SCIENCE FOUNDATION Dr. Benno G. Frey Head of the Fellowship Section Wildhainweg 20, CH-3012, Bern Tel: 41-31-27-22-22 Fax: 41-31-23-30-09
FINLAND	THE ACADEMY OF FINLAND Ms. Ritva Helle International Affairs P.O. Box 57, SF-00551 Helsinki Tel: 358-0-7748-316 Fax: 358-0-7748-379	UNITED KINGDOM	THE ROYAL SOCIETY Ms. Vida Cody Head of Japan Exchanges 6 Carlton House Terrace, London SW1Y 5AG Tel: 44-71-839-5561 Fax: 44-71-930-2170
FRANCE	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE Ms. Françoise Aubujeault Chief of Asia Division, Mission of International Relations 3-5 rue Michel-Ange, 75781 Paris Cedex 16 Tel: 33-1-44-96-46-91 Fax: 33-1-44-96-49-10	UNITED STATES	NATIONAL SCIENCE FOUNDATION Japan Programs, Room 935 Division of International Programs 4201 Wilson Blvd. Arlington, VA 22230 Tel: 1-703-306-1701 Fax: 1-703-306-0476 or 0477
ITALY	MINISTERO DELL'UNIVERSITÀ E DELLA RICERCA SCIENTIFICA E TECNOLOGICA Dr. Antonella Carrisa Department for International Relations-UFFICIO III Piazzale J.F. Kennedy 20-00144 Roma Tel: 39-6-59912819 Fax: 39-6-59912967		NATIONAL INSTITUTES OF HEALTH Dr. David A. Wolff Chief, International Research Awards Branch Fogarty International Center Bldg. 31, Rm. B2C39 Bethesda, Maryland 20892 Tel: 1-301-496-1653 Fax: 1-301-402-0779
NETHERLANDS	STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN (STW) Dr. C. A. M. Mombers Program Officer Postbus 3021, 3502 GA Utrecht Van Vollenhovenlaan 661, Utrecht Tel: 31-30-923275 Fax: 31-30-961536	EUROPEAN UNION	EUROPEAN COMMISSION Mr. Mario Merla Directorate-General for Science, Research and Development DG XII-G-3 200 Rue de la Loi, 1049 Brussels, Belgium Tel: 32-2-295-39-90 Fax: 32-2-296-33-08

Further information regarding the STA Fellowship and host institute is available from the responsible organizations, JISTEC and JRDC. (See below)

Japan International Science and Technology Center (JISTEC)
20-5, Takezono, 2-chome, Tsukuba City, Ibaraki Pref. 305 Japan
Tel: 81-298-53-8250 Fax: 81-298-53-8260

Research Development Corporation of Japan (JRDC)
Kawaguchi Center Building 1-8, Hon-cho 4-chome, Kawaguchi-city, Saitama Pref. 332, Japan
Tel: 81-48-226-5634 Fax: 81-48-226-5652

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GLOBAL CAREER OPPORTUNITIES

The Third Research Grant Offer by Mizutani Foundation for Glycoscience

Mizutani Foundation for Glycoscience invites grant applications for basic research on glycoscience¹. The suggested projects for this year include general studies in glycoconjugates: their organic chemistry, biochemistry, biophysics, molecular biology, cellular biology, and medical science.

Qualification: An applicant must (a) have a doctor's degree, (b) have a documented capability of performing independent studies, and (c) be a member of a research institute where he or she can carry out the proposed project.

Grant: As much as ¥10,000,000 (approximately US\$100,000 at the current exchange rate) may be requested per annum. As a rule the grant will be approved for one (1) year, but exceptional proposals may be considered for two (2) years. The total budget for research grants is approximately ¥100,000,000 per annum. However, the budget allocated for new research proposals may vary each year. The approved grant will be issued to the research institute to which the principal investigator is affiliated. The grant may be used for various items, but not for the stipend of the principal or collaborative investigators. No more than 10% of the grant may be used for indirect costs (overheads).

Selection: A new research proposal will be reviewed by members of a committee consisting of specialists appointed by the board of trustees of the foundation for originality, scientific merit, and feasibility. The potentiality of the principal investigator and the research environment will also be considered.

Application Form and Deadline: The official application form (in English) may be obtained by sending a letter or fax (no telephone calls) to the North American Office of Mizutani Foundation for Glycoscience: Department of Biochemistry, Meharry Medical College, 1005 David Todd Jr. Blvd., Nashville, TN 37208, USA (Fax: [1] 615-327-6442). A completed application form for a grant to be awarded on April 1, 1996 must be mailed on or before August 31, 1995 to:

Mizutani Foundation for Glycoscience: Sen-i Kaikan, Suite 5F, 3-1-11, Nihonbashi-honcho, Chuo-ku, Tokyo 103, Japan (Fax: [81] 3-3246-1265, Phone [81] 3-3246-0224).

1. See this Journal 263, 1051 (1994) for a list of current awardees and their project titles.



**BOSTON UNIVERSITY
SCHOOL OF MEDICINE
DEPARTMENT OF OPHTHALMOLOGY**

The Department of Ophthalmology at Boston University School of Medicine seeks to recruit a basic science investigator with PhD, MD or equivalent degree to join the Massachusetts Lions Eye Research Laboratory. Faculty appointment in Ophthalmology with joint faculty appointment in appropriate basic science department; level commensurate with experience. Molecular biology/biochemistry or physiology/pharmacology preferred disciplines.

Candidate must have currently funded NIH or comparable independent support. Supplemental support and prime laboratory space in medical school's basic science building available. Minimal teaching and administrative obligations.

Interested individuals should send a curriculum vitae (including current funding), a concise statement of research plans and the names of three references to:

**Search Committee
c/o Howard M. Leibowitz, M.D.
Department of Ophthalmology
Boston University School of Medicine
80 East Concord Street
Boston, MA 02118**

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**NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF BIOCHEMISTRY**



Applications are invited for **teaching appointments** in the **Department of Biochemistry**.

Candidates should have either a PhD degree or an approved basic medical degree with a recognised higher academic/professional qualification. Preference will be given to candidates with teaching and research experience. A proven track record of high calibre, self-directed research in (a) regulation of gene expression; genetic forms of treatment for human diseases; and (b) physical and structural biochemistry, enzymology, bioenergetics and intermediary metabolism will be advantageous.

Gross annual emoluments range as follows:

Lecturer	S\$55,910 - 71,400
Senior Lecturer	S\$65,200 - 122,820
Associate Professor	S\$108,820 - 151,480

(US\$1.00 = S\$1.40 approximately)

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.

In addition, appointees who possess an approved basic medical degree and a recognised higher academic/professional qualification may opt to retain consultation fees under the Consultation/Outside Work Scheme, or to receive a Fixed Allowance, the annual rates for which are as follows:

Lecturer	S\$6,000/9,000
Senior Lecturer	S\$15,000
Associate Professor	S\$21,000

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing or a housing allowance, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

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Application forms and further information on terms and conditions of service may be obtained from:

**The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511**

**The Director
North America Office
National University of Singapore
55 East 59th Street
New York, N.Y. 10022, U.S.A.
Tel: (212) 751-0331**

Enquiries may also be sent through BITNET to:
PERLIMM @ NUS3090, or through Telefax: (65)7783948

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ASSOCIATE RESEARCH SCIENTIST—New York University Medical Center is currently looking for experienced molecular biologist with expertise in cloning PCR, RNA and DNA techniques. Familiarity with tissue culture and transfection of cells required. Knowledge of immunology desirable. The project involves studies in gene expression in human cell lines and primary cultures of T cells and thymocytes. Send curriculum vitae to: Ms. Maha L. Singh, Professional Recruiter, New York University Medical Center, 550 First Avenue, New York, NY 10016.

RESEARCH ECOLOGIST, GS-408-12
(\$42,641 to \$55,432)

Coastal and Estuarine Community Dynamics

The United States Environmental Protection Agency is looking for a full-time **RESEARCH ECOLOGIST**. The position is assigned to the Marine Ecosystems Research Branch at the Environmental Research Laboratory in Narragansett, Rhode Island. The Branch conducts scientific research aimed at quantifying, understanding and predicting the cumulative effects of anthropogenic activities on the structure and function of coastal ecosystems. The position serves as a principal investigator in a multi-disciplinary team of scientists assigned to model the effects of anthropogenic stressors on productivity and sustainability of coastal marine ecosystems.

To qualify, applicants must have a degree in biology or a related field of science underlying ecological research that included at least 30 semester hours in basic and applied biological sciences. These hours must have included at least nine hours in ecology and 12 semester hours in physical and mathematical sciences. In addition, applicants will be evaluated on the basis of their knowledge of coastal marine ecology, ecological modeling techniques and systems ecology.

If you are a current federal employee interested in applying for this position, you must request a copy of the announcement by calling the U.S. Environmental Protection Agency, Human Resources Office, at Las Vegas (HRO-LV) Jobline at 702-798-2418. Applications must be postmarked by April 14, 1995.

Non-federal applicants must call the Office of Personnel Management, Los Angeles Service Center (OPM-LA), at 818-575-6510 and request a special application package. Applications must be requested by April 14, 1995.

You must be a U.S. citizen to apply. The EPA is an Equal Opportunity Employer.

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