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For **MEETINGS AND ANNOUNCEMENTS** display advertisements, see pages 1512, 1513, and 1515.

LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad:

Submit double-spaced typewritten copy. Do not include any abbreviations. SCIENCE will edit and typeset ads according to SCIENCE guidelines. Include billing information and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Services. SCIENCE cannot provide proofs of typeset line ads. Line advertisements are not commissionable.

Estimates: SCIENCE will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

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Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

Discounts: A 3% cash discount is granted to all prepaid ads.

Ads from Outside the U.S.: A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

SCIENCE Professional Network: Unless otherwise instructed, every classified advertisement submitted for publication in SCIENCE is automatically posted on SCIENCE's on-line classified advertising service, SCIENCE Professional Network, at no additional charge.

<http://www.sciencemag.org>

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Email: science_classifieds@aaas.org (please include your telephone number in Email)

SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

CHAIR OF MEDICINE

The University of California, Irvine, College of Medicine is seeking to fill the position of the **CHAIR** of the Department of Medicine. The candidate must demonstrate academic leadership and possess a proven track record in basic or clinical research in shaping the future of the Department of Medicine. With the understanding that there needs to be a significant infusion of research strengths within the department, the recruitment of several key positions will be an important task for the new chair of medicine. Leadership skills in dealing with the ever-changing healthcare environment are requirements.

University of California Irvine College of Medicine is located in the city of Irvine, and University of California, Irvine Medical Center, the principal clinical facility, is located in the city of Orange. The Veterans Affairs Medical Center, Long Beach is an important college affiliate. The Department of Medicine has 120 full-time faculty members, 116 residents and 57 fellows who provide services to 83,300 elective ambulatory visits and emergency room visits, and 3,200 acute hospital admissions each year.

Interested candidates should submit their curriculum vitae to: Yutaka Kikkawa, M.D., Professor and Chair of Pathology, Search Committee Chair, University of California Irvine, D440 Medical Sciences, Irvine, CA 92697-4800.

The University of California, Irvine: rooted in education, enriched by diversity.

FACULTY POSITION CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

The Department of Medicine at Case Western Reserve University (CWRU) School of Medicine is accepting applications for a faculty position in the newly created Molecular Cardiovascular Research Center. Qualified individuals should possess an M.D. or Ph.D. in molecular biology or biochemistry. Suitable areas of research include, but are not limited to, the molecular aspects of atherosclerosis (gene therapy), vascular biology, restenosis, thrombosis, and heart failure. A successful candidate will initiate and pursue a program of independent research. Salary and rank will be commensurate with qualifications and experience.

Reply by submission of a curriculum vitae, names, addresses, and telephone numbers of three references to: Dr. Eduardo G. Lapetina, Molecular Cardiovascular Research Center, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4958.

Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

University of California, San Francisco. **PROFESSOR** or **ASSOCIATE PROFESSOR** of neurology level. The Department of Neurology, University of California, San Francisco, seeks an exceptional candidate at the level of Professor or Associate Professor of Neurology to fill an endowed chair and develop a clinical program in Alzheimer's Disease based at University of California, San Francisco. Applicants are expected to have demonstrated the ability to develop a strong, independently-funded clinical research program in Alzheimer's Disease and to have outstanding credentials in teaching. Salary and excellent clinical research facilities available. Send curriculum vitae, research interests, and three names for reference to: Stanley Prusiner, Department of Neurology, University of California, SHE 781, San Francisco, CA 94143-0518. *University of California, San Francisco is an Affirmative Action/Equal Opportunity Employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

HEAD, DIAGNOSTIC IMMUNOASSAY DEVELOPMENT

The successful applicant will manage menu expansion for Sienna's Copalis™ System. Applicants should have a successful track record in managing a large group developing instrumented immunoassay, hematology, or DNA probe systems, through FDA clearance and commercialization. A Ph.D. scientist with at least 10 years experience in the diagnostic industry that includes experience in developing endocrinology and/or infectious disease assays, is required. Applicants should send their résumés and salary history to: Human Resources, Sienna Biotech, 9115 Guilford Road, Suite 180, Columbia, MD 21046. Information on Sienna and Copalis technology can be found at <http://www.copalis.com>.

POSITIONS OPEN

PROFESSOR AND CHAIR DEPARTMENT OF PATHOLOGY STANFORD UNIVERSITY SCHOOL OF MEDICINE

Stanford University School of Medicine invites nominations and applications for the position of **PROFESSOR AND CHAIR** of the Department of Pathology. Candidates should hold an M.D. degree and should present evidence of scholarship and an abiding interest in research and should be knowledgeable in the delivery and management of clinical services. All applications and nominations will be considered. Interested individuals should contact: Edward B. Stinson, M.D., Chairman, Pathology Chair Search Committee, Department of Cardiothoracic Surgery, Stanford University School of Medicine, Falk Building, Stanford, CA 94305-5247. *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

INVERTEBRATE PALEONTOLOGIST HARVARD UNIVERSITY

The Departments of Organismic and Evolutionary Biology and Earth and Planetary Sciences seek an invertebrate paleontologist with a productive record of high quality research and a demonstrated interest and ability in teaching at the undergraduate and graduate levels. The appointment will be to a **TENURED PROFESSORSHIP**. Applicants should submit, by March 31, 1997, a curriculum vitae and statement of research and teaching interests to:

Professor Paul Hoffman
Department of Earth and Planetary Sciences
Harvard University
20 Oxford Street
Cambridge, MA 02138

Harvard University is an Affirmative Action/Equal Opportunity Employer; we encourage applications from women and minority scholars.

ASSISTANT PROFESSOR ATMOSPHERIC SCIENCE

The Atmospheric Science program at Dalhousie University has an opening at the **ASSISTANT PROFESSOR** level starting in the summer of 1997. The successful applicant will be appointed to the Departments of Physics and Oceanography as an NSERC/AES Junior Industrial Chair Holder. The required qualifications include a Ph.D. degree in atmospheric science or related field, two years of atmospheric science postdoctoral experience, and a demonstrated record of research excellence. Preference will be given to applicants with an interest in physics and thermodynamics of clouds and aerosols; cloud and aerosol modelling; aerosol-cloud-radiation interaction and climate studies. Interested applicants should send their curriculum vitae, two of their most important publications, a transcript of graduate records, and names of three references to: Peter Chylek, Atmospheric Science Program, Department of Physics, Dalhousie University, Halifax, NS B3H 3J5 Canada. FAX: 902-494-5191; Email: chylek@atm.dal.ca. Applications received by March 20, 1997 will receive full consideration.

Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, racially visible people, and persons with a disability. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

FACULTY POSITION MEDICAL MICROBIOLOGY/IMMUNOLOGY

The Department of Microbiology at Midwestern University seeks applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR**. The position is available for individuals specializing in microbial pathogenesis with an emphasis in immunology or cellular immunology. Applicants must have a Ph.D. or equivalent, postdoctoral training, and a commitment to excellence in both teaching and establishment of a rigorous research program capable of attracting extramural funding. Preference will be given to individuals broadly trained in medical microbiology who have previous teaching experience in a professional health care curriculum. Send curriculum vitae, names of at least three references, and a statement specifying teaching interests and research plans to: J. R. Burdick, Ph.D., Department of Microbiology, Midwestern University, 555 31st Street, Downers Grove, IL 60515. *Affirmative Action/Equal Opportunity Employer. Women/minorities/veterans/disabled are encouraged to apply.*

REQUEST FOR LETTERS OF INTEREST FOR MULTILATERAL INITIATIVE ON MALARIA IN AFRICA

In response to a meeting on Malaria in Africa, held in Dakar, Senegal on January 6-9, 1997, the following agencies, which support malaria research, are soliciting letters of interest for proposals that seek to enhance the capacity to conduct collaborative/multicenter research relevant to malaria in Africa: Commission of the European Communities; Institut National de la Sante et de la Recherche Medicale; Institut Pasteur; Medical Research Council of the United Kingdom; Ministry of Cooperation, France; National Institutes of Health (USA); Netherlands Organization for Scientific Research; The Wellcome Trust; World Health Organization.

Although no funding commitments have been made at this time, and this notice does not necessarily mean that funding will be available for these projects from the agencies identified above, these letters will be considered at a follow-up meeting of agency representatives at which future plans for coordinated support will be developed. For more information on this initiative in English or French, see the NIAID homepage <http://www.niaid.nih.gov>.

The letters of interest, no more than three pages in length, must contain the following information:

1. The area of collaborative malaria research with Africa to be undertaken, and a description of how this research will benefit from a multicenter collaborative approach;
2. A brief summary of current efforts and a description of the kinds of activities proposed. New and innovative collaborative research approaches are encouraged;
3. An estimated cost for the proposed activity, with justification, and;
4. The names of proposed collaborators, including mailing addresses. Please include E-mail and FAX numbers.
5. Proposed activities may include:
 - The organization of workshops to exchange information and to develop and implement common methodologies and protocols, including the use of common reagents and databases;
 - The establishment of repositories of clinical and field samples of parasite, vector and human material;
 - The establishment of common facilities to analyze data and samples from multiple sites;
 - Comparative studies using remote sensing and geographic information systems (GIS) in different situations, and;
 - The exchange of scientists.

Existing networks of collaborating centers are especially invited to submit letters of interest. Letters of interest should be received by no later than **April 27, 1997** and be sent by regular mail, FAX or E-mail to the following addresses:

The letters may be written in French or in English.

Multilateral Initiative on Malaria
c/o Division of Microbiology and Infectious
Diseases
**NATIONAL INSTITUTE OF ALLERGY AND
INFECTIOUS DISEASES**
National Institutes of Health
Solar Building Room 3A18
Bethesda, Maryland, USA 20892-7630
FAX: 301-480-4528
E-Mail: malaria@nih.gov

Multilateral Initiative on Malaria
c/o Commission of European Communities
**SCIENTIFIC AND TECHNICAL
COOPERATION WITH DEVELOPING
COUNTRIES**
Directorate General XII - B-4
Sector Health
Rue de la Loi 200
B-1049 Bruxelles
Belgium
FAX: 32-2-296-6252
E-Mail: paludisme@dg12.cec.be

POSITIONS OPEN

ASSISTANT PROFESSOR VERTEBRATE MOLECULAR GENETICIST

The Department of Veterinary & Animal Sciences at the University of Massachusetts, Amherst invites applications for a tenure-track, academic-year appointment in Vertebrate Molecular Genetics. Candidates with training in molecular genetics and cellular biology and research programs with biomedical or agricultural applications and a background in animal sciences are especially encouraged to apply. We are seeking an individual to develop a research program that will complement those of existing faculty in the areas of molecular and cellular reproduction, genetic control of infectious diseases or immune response, molecular mechanisms regulating gene expression, or developmental and molecular genetics. Minimum qualifications include a Ph.D. or D.V.M. and postdoctoral experience in the area of animal molecular genetics. This position will begin on September 1, 1997. Please send résumé and three letters of reference to:

Dr. Robert T. Duby, Head
Department of Veterinary and Animal Sciences
314 Paige Laboratory
University of Massachusetts
Amherst, MA 01003

Applications will be evaluated beginning April 15, 1997.

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

RESEARCH POSITION IN THE CENTER FOR COASTAL STUDIES UNIVERSITY OF CALIFORNIA, SAN DIEGO

Applications are invited for appointment in the Research Oceanographer series, at the ASSISTANT or ASSOCIATE rank. Fields of interest include, but are not limited to, nearshore hydrodynamics and sediment transport, coastal and marginal sea physical oceanography. Applications are encouraged both from scientists with an interest in observational work and from scientists interested in modeling and theoretical studies. At time of appointment, applicant must hold a Ph.D. degree in physical oceanography, coastal engineering, or a related science. Candidates must also demonstrate ability to conduct independent research of high quality in their field. This is a career track position. It will be extramurally funded at the Assistant rank; Scripps Institution of Oceanography currently provides base salary support of 25% on appointment/promotion to the Associate Research rank and 50% on promotion to the Full Research ranks, as a supplement to extramural support obtained by the scientist, subject to the availability of funds. Salary and position rank will be determined based on experience and qualifications and based on University of California salary scales. The closing date for this position is 15 May 1997. Send a detailed résumé, including copies of recent publications, and names of five references, including their addresses and specific area of expertise to: **Chairman, Research Series Search, Center for Coastal Studies 0209, 9500 Gilman Drive, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA 92093-0209.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR DEVELOPMENT NEUROBIOLOGY HARVARD MEDICAL SCHOOL

The Department of Neurobiology at Harvard Medical School invites applications for a tenure-track position at the ASSISTANT PROFESSOR level.

We seek individuals using genetics or cellular physiology to address fundamental questions in developmental neurobiology, whether in invertebrates or vertebrates. However, applications emphasizing other aspects of molecular or cellular biology are also welcome.

Applicants should submit, by April 15, 1997, a curriculum vitae, a statement of research plans, and arrange for three letters of recommendation to be sent to:

Professor Gerald D. Fischbach
Chairman, Search Committee
Department of Neurobiology
Harvard Medical School
220 Longwood Avenue
Boston, MA 02115

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. We would also like to encourage women and minorities to apply.

POSITIONS OPEN

FACULTY POSITION

The Department of Basic Health Sciences at Marquette University invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR to begin in August 1997. The successful candidate will be expected to develop an independent, funded research program in an area of neuroscience and teach physiology to undergraduates and professional students. Send a curriculum vitae, description of research interests, and the names of three references by April 15, 1997 to: **Search Committee, College of Health Sciences, Department of Basic Health Sciences, Marquette University, P.O. Box 1881, Milwaukee, WI 53201-1881.** *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION NEUROSCIENCES

The Geriatric Research, Education and Clinical Center at the Veterans Administration Puget Sound Health Care System (VAPSHCS) Seattle Division, and the Division of Gerontology and Geriatric Medicine, Department of Medicine, and the Department of Pharmacology at the University of Washington are jointly recruiting a full-time faculty member at the ASSISTANT or ASSOCIATE PROFESSOR level, commensurate with qualifications. Candidates must hold the degree of Ph.D. and/or M.D., have at least two years of postdoctoral experience, and have a strong interest in basic mechanisms of diseases related to the elderly. The successful candidate is expected to develop a strong independent neuroscience research program in cellular biology, molecular biology and/or biochemistry. Applicants will be able to interact with other neuroscientists and neurogeneticists including a strong core of individuals working on Alzheimer's disease, at both the VAPSHCS and at the University of Washington. The closing date for applications is April 30, 1997. Applicants should send a curriculum vitae, three letters of recommendation, and brief statements summarizing research accomplishments and future plans to: **Dr. Gerard D. Schellenberg, Associate Director for Research, GRECC (182B), Veterans Affairs Puget Sound Health Care System, 1660 South Columbian Way, Seattle, WA 98108.** *The VAPSHCS and University are Equal Opportunity/Affirmative Action Employers. The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates.*

MICROBIOLOGIST ASSISTANT PROFESSOR

Qualifications: Ph.D. required. Small department emphasizing teaching seeks tenure-track person to teach general bacteriology, immunology, medical microbiology, virology, and microbial physiology; knowledge of statistical applications required. Development of research program and university service expected.

Application procedure: Position starts August 18, 1997. Send résumé, transcripts, statements of research and teaching interest, and three current letters of recommendation to: **Microbiology Search Committee, Personnel Department-Station 21, Eastern New Mexico University, Portales, NM 88130.** For information, call: 505-562-2478.

Application deadline: Applications accepted until position is filled. Screening begins March 31, 1997. *Affirmative Action/Equal Opportunity Title IX Employer.*

ASSISTANT PROFESSOR OF BIOLOGY

TENURE-TRACK opening is anticipated for fall 1997. Ph.D. in molecular biology with good communication skills and a demonstrated ability to teach biology at the undergraduate level. Teach first-year biology and upper-level courses in biotechnology and molecular biology; advise science majors and conduct appropriate research projects with students. University of Houston-Downtown is located in the dynamic central business district of Houston. The 8,000 undergraduate student body has an ethnic mix which matches that of the city. Application deadline: April 7, 1997. Send letter of application, curriculum vitae, and names of three references to: **Chair, Biology Search Committee, Department of Natural Sciences, University of Houston-Downtown, Houston, TX 77002.** *The University of Houston-Downtown is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR of entomology: applied insect ecology, Department of Entomology, University of Arizona (an Equal Opportunity Employer). Twelve month, tenure-track position (80% research, 20% teaching). Responsibilities: Develop and teach a course on the theory and application of ecology as it pertains to contemporary strategies for arthropod management. The candidate will also be required to teach a course in organismic biology for majors. Develop vigorous research program with emphasis on ecological investigations to enhance the understanding of the management of arthropod pests, especially those occurring in Arizona. Minimum qualifications include a Ph.D. in ecology, entomology or related science, and demonstrated expertise in applied ecology. Postdoctoral experience is desirable, as is demonstrated ability to acquire extramural funding. Salary is commensurate with qualifications. Send letter of application addressing reasons for interest in position, plans for teaching and research, curriculum vitae, transcripts, selected papers (five maximum) and the names, email addresses, and FAX numbers of three individuals who are willing to provide references to: **David N. Byrne, Chair of Search Committee, Department of Entomology, University of Arizona, Tucson, AZ 85721.** Telephone: 520-621-1151; FAX: 520-621-1150; Email: byrne@ag.arizona.edu. Departmental home page: <http://ag.arizona.edu/ENTO/entohome.html> Review of applications will begin on May 15, 1997 and will continue until the position is filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action/Americans with Disabilities Act employer. Women and minorities are encouraged to apply.*

ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY AND ENVIRONMENTAL HEALTH

The Department of Environmental Health at the Harvard School of Public Health invites applications for an ASSISTANT PROFESSOR appointment in the Physiology Program. The most important quality of the successful candidate will be a record of independent original research, using state-of-the-art molecular techniques. Demonstrated expertise in the broad areas of molecular biology and issues related to environmental health is sought. We particularly welcome applicants with research interests in such areas as redox regulation of gene expression, oxygen free radical biology, cytokine and chemokine biology, and molecular mechanism of pulmonary inflammation in response to environmental agents.

The successful candidate will be expected to instruct Department graduate and post-graduate students in molecular biology, physiology, and pathophysiology. He or she will be expected to establish an independent research program complementary with current research areas in the Department.

Applicants should send a statement of current and future research interests, curriculum vitae, and the names of three references to:

Dr. Bruce Demple, Chair
Ad Hoc Search Committee for an
Assistant Professor of Molecular Biology
and Environmental Health
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115

Harvard University is committed to increasing the number of women and minorities in its faculty and encourages applications from such candidates.

CROP MOLECULAR GENETICIST

The Department of Agronomy and Plant Genetics at the University of Minnesota seeks applicants for a 12-month 80% research/20% teaching tenure-track ASSISTANT PROFESSOR position to: develop crop molecular genetics program emphasizing wheat/barley; contribute to undergraduate/graduate education, and outreach in plant biotechnology. Minimum qualifications: Ph.D. in molecular genetics, plant breeding or related field; communication skills and teaching ability. Desirable qualifications include post-Ph.D. experience in: crop molecular genetics research; collaborative research and teaching/education. Send résumé, transcripts, a one to two page statement of personal interests/goals relating to position's research and educational responsibilities, and have three letters of reference sent, by May 1, 1997, to: **Dr. David A. Somers, Department Agronomy & Plant Genetics, 411 Borlaug Hall, 1991 Buford Circle, University of Minnesota, St. Paul, MN 55108.** Telephone: 612-625-5769; http://www.agro.agri.umn.edu/job_openings/index.htm. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

Tenure-Track Positions Assistant Professor Equivalent

Diabetes Mellitus and Obesity

The Diabetes Branch, NIDDK, seeks a licensed MD to establish an independent program of patient-oriented research related to diabetes mellitus and/or obesity. Current areas of research within the Diabetes Branch focus upon the mechanisms of action of insulin and insulin-like growth factors, genetic factors predisposing to development of noninsulin-dependent diabetes mellitus, physiology leptin, and obesity. However, the individual will be free to pursue any area of research related to the areas of diabetes mellitus or obesity. Submit applications to Dr. Derek LeRoith, Chair, Clinical Investigator Search Committee (OE-124), NIDDK, Building 10, Room 8S235A, 10 CENTER DR MSC 1770, BETHESDA MD 20892-1770.

Thyroidology

The Molecular and Cellular Endocrinology Branch, NIDDK, is searching for a licensed MD to establish an independent program of patient-oriented research related to thyroid disease. Current areas of research within the Molecular and Cellular Endocrinology Branch include studies of the mechanisms of action of thyroid hormone, regulation of gene expression, thyroid hormone resistance, TSH-secreting pituitary tumors, and thyroid cancer. However, the individual will be free to pursue any area of research related to the areas of thyroid disease. Submit applications to Dr. Derek LeRoith, Chair, Clinical Investigator Search Committee (OE-124), NIDDK, Building 10, Room 8S235A, 10 CENTER DR MSC 1770, BETHESDA MD 20892-1770.

Mathematical Statistics and Biostatistics

The Biometry and Mathematical Statistics Branch seeks a mathematical statistician or biostatistician to collaborate on methodological research in perinatal epidemiology and health behavior interventions in mothers and children. Applicants should have a doctoral degree in mathematical statistics or biostatistics with mathematical emphasis, and must have a strong record of methodological research demonstrated by publications in major peer reviewed journals. Submit applications to Dr. Richard Simon, Chair, Search Committee (OE-124), NICHD, 6120 Executive Boulevard, Room 739C, BETHESDA MD 20892. Deadline is May 1, 1997.

To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to two- page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

New WWW Site

Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at <http://helix.nih.gov:8001/oe>



National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe>

The NIH is an Equal Opportunity Employer

POSTDOCTORAL RESEARCH ASSOCIATES

U.S. Meat Animal Research Center (MARC), Clay Center, Nebraska Agricultural Research Service, U.S. Department of Agriculture

Postdoctoral Research Associate positions are available immediately at MARC in the following areas:

- **Genetics** Molecular biology and molecular/quantitative genetics. Opportunities to apply gene mapping, differential display, YAC technology and related genomic techniques.
- **Meats** Effects of microbial decontamination and sanitizing agents on potential pathogens, meat quality, product shelf life and interactions with processing techniques.
- **Nutrition** Enhancement of nitrogen efficiency in meat animals for economic and environmental sustainability.
- **Animal Health** Molecular biology, ecology and control of food-safety related bacteria, especially enterohemorrhagic *Escherichia coli* and *Salmonella* species, in populations of domestic livestock.
- **Production Systems** Integrate experimentally derived information from traditional animal sciences into simulation models for use by animal scientists and production agriculture.
- **Biological Engineering** Energetics and modeling of generation, collection, treatment and utilization of cattle waste in support of environmental quality.
- **Reproduction** Ovarian, testicular, uterine and fetal physiology, endocrinology and molecular biology of livestock.

MARC is a modern, well-funded research facility located in south-central Nebraska. The 50+ researchers currently working at the center represent a wide range of scientific disciplines, from basic molecular genetics and mathematical modeling to population biology and biological engineering. Large reference populations of beef cattle, swine and sheep present at MARC, an interdisciplinary approach to problems of animal production and state-of-the-art laboratories present unique opportunities for creative researchers. For further information about MARC see <http://www.marc.usda.gov>.

A Ph.D. or DVM/Ph.D. degree is required for these positions. Minimum starting salary is \$36,426. Candidates with a strong background in any of the above areas are encouraged to apply by sending a C.V. and names of three references to: **Research Associate Search Committee, U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933**. Candidates must be U.S. citizens or citizens of countries with defense agreements with the U.S. *USDA-ARS is an affirmative action/equal opportunity employer.*

POSITIONS OPEN

MOLECULAR PHARMACOLOGIST ASSISTANT PROFESSOR DEPARTMENT OF PHARMACEUTICAL SCIENCES UNIVERSITY OF CONNECTICUT

The Department of Pharmaceutical Sciences of the School of Pharmacy at the University of Connecticut invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in its pharmacology/toxicology discipline to begin August 23, 1997. Candidates must have a Ph.D. in pharmacology or related fields, postdoctoral experience, and will be expected to develop and maintain innovative, independent and externally-funded research programs which emphasize molecular pharmacology. Preferred research interests include regulations of membrane receptor at the cellular and molecular level and/or cell signaling pathways. Applications of molecular biology to pharmacology and toxicology is of special interest. The successful candidate will have the opportunity to interact with faculty in an NIH pre- and postdoctoral program in toxicology. A strong commitment to teaching at both the undergraduate and graduate levels is also expected. Applicants should send a curriculum vitae and arrange for three letters of recommendation to be sent directly to: **Dr. Andrea K. Hubbard, Chair, Pharmacology/Toxicology Search Committee, Department of Pharmaceutical Sciences, University of Connecticut, School of Pharmacy, U-92, Storrs, CT 06269.** Applications will be received until the position is filled. Initial review of applications will begin April 15, 1997. *We encourage applications from under-represented groups including minorities, women, and people with disabilities.* (Search 97A239)

ASSISTANT PROFESSOR. The University of Wisconsin-Superior's Department of Biology invites applications for a tenure-track position for fall 1997. The successful candidate will possess a Ph.D. in biological sciences. Applicants must be committed to undergraduate teaching and advisement including the development of undergraduate research programs through funded research, or other mechanisms. Teaching responsibilities include human biology and anatomy and physiology. Opportunities exist for the development of courses in environmental and plant sciences. Individuals with a broad background in biology with teaching and research experience will be given preference. Send curriculum vitae, description of teaching and research interests, and have three references send recommendations by April 15, 1997 to: **Biology Search Committee, Department of Biology, University of Wisconsin-Superior, 1800 Grand Avenue, Superior, WI 54880-2898.** We are required to provide a list of nominees and applicants if requested. A written request can exclude one from this list. Names of all finalists must be disclosed if requested. *The University of Wisconsin-Superior is an Affirmative Action/Equal Opportunity Employer and Educator. Women and minority candidates are actively encouraged to apply.*

Tenure-track **ASSOCIATE/FULL PROFESSOR** position in genetic toxicology is available in the Institute of Chemical Toxicology, Wayne State University. Individuals with actively funded research examining DNA damage by bioactivated chemical carcinogens with special emphasis on low level dose effects on DNA damage and the relationship between low dose exposure and mutational spectra of target genes in human cells are especially encouraged to apply. Applicants should send their curriculum vitae along with the names and addresses of four references to: **Dr. Raymond F. Novak, Director, Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Detroit, MI 48201.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR

The Center for Molecular and Structural Biology (CMSB), invites applications for **FACULTY POSITIONS.** CMSB is located in the Hollings Cancer Center, a new, well-equipped facility with excellent accessibility to clinical staff and materials. This Center was originally formed by an active research group of molecular oncologists recently relocated from National Cancer Institute (NCI). Applicants should have federal or private research funding.

Please send curriculum vitae to: **Dr. Takis S. Pappas, Medical University of South Carolina, The Center for Molecular and Structural Biology, 171 Ashley Avenue, Charleston, SC 29425.**

POSITIONS OPEN

FACULTY POSITION IN THE DEPARTMENT OF CANCER BIOLOGY AT DANA FARBER CANCER INSTITUTE

Dana Farber Cancer Institute is undergoing expansion of its basic research facilities on the occasion of its 50th anniversary. The Department of Cancer Biology will be housed in the new Smith Research Building. Together with the Department of Pathology at Harvard Medical School, the Department of Cancer Biology seeks well-qualified (Ph.D., M.D./Ph.D. or M.D.) applicants for tenure-track positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level.

The Departments seek individuals who have the capability of directing innovative independent research in all areas of contemporary biology including those with interests and experience based in biochemistry, genetics, cell, developmental and molecular biology, and neurobiology.

These positions offer significant scientific resources in a stimulating environment as well as attractive start-up support packages. Candidates are expected to participate in the teaching activities of the Department of Pathology for medical students, graduate students, and postdoctoral fellows. Applicants should submit, as soon as possible, curriculum vitae, bibliography, a brief statement of research interests and arrange for three letters of recommendation to be sent to: **Dr. Thomas M. Roberts, Department of Cancer Biology, Dana Farber Cancer Institute, 44 Binney Street, Boston, MA 02115.** *Dana Farber Cancer Institute is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY AND VIROLOGY

The Yerkes Regional Primate Research Center of Emory University is seeking faculty for a new program in primate immunology and vaccinology. Candidates with research interests in cellular immunology, neonatal immunology, and molecular pathogenesis are encouraged to apply. The program will be housed with the Emory Vaccine Center in a new 71,000 square foot research building on the Yerkes campus. Successful applicants will have the opportunity to build independent as well as interactive programs on primate immunology and microbial pathogenesis. Initial programmatic studies will focus on the use of molecular as well as empirical approaches to develop an AIDS vaccine. Investigators will have the opportunity to use rodent as well as non-human primate models, and be encouraged to evaluate promising findings and vaccine approaches in patients. All appointments will be joint with Departments at the Emory University School of Medicine. Applicants should send their curriculum vitae, the names of four references, and a brief statement of research goals to: **Dr. Harriet L. Robinson, Chief of Microbiology and Immunology, Yerkes Primate Center, Emory University, Atlanta, GA 30322.** *Emory is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR—UNIVERSITY OF MISSOURI, COLUMBIA

The Physiology Department in the Medical School announces a tenure-track position. We wish to find someone who can oversee a physiology course currently offered two times per year to undergraduates, and who can conduct competitive research in an area that complements established programs in cardiovascular physiology and membrane biophysics. A Ph.D., M.D., or D.V.M. and at least two years of postdoctoral experience are required. Salary and start-up are competitive. Send current curriculum vitae to: **Dr. Allan W. Jones, Chair, Department of Physiology, University of Missouri, MA415 Medical Sciences Building, Columbia, MO 65212.**

The University of Missouri is an Equal Opportunity Employer.

TENURE-TRACK ASSISTANT PROFESSOR, SEPTEMBER 1, 1997 MOLECULAR BIOLOGY

Ph.D. in molecular biology or in a closely related field, to teach general biology in a forensic science program. A background in the forensic applications of biology would be helpful.

Please send a résumé, transcripts, list of references, and a brief description of research plans to: **Professor Selman A. Berger, Department of Sciences, John Jay College of Criminal Justice, The City University of New York, 445 West 59th Street, New York, NY 10019. FAX: 212-237-8742.** Deadline: March 17, 1997. *An Equal Opportunity/Affirmative Action/Americans with Disabilities Act Employer.*

POSITIONS OPEN

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY NEW JERSEY MEDICAL SCHOOL TWO FACULTY POSITIONS

Department of Biochemistry and Molecular Biology University of Medicine and Dentistry of New Jersey New Jersey Medical School

The department is beginning a phase of expansion and looking for outstanding, highly motivated, and accomplished molecular biologists/biochemists. Applicants are invited for two tenure-track positions at the level of **ASSISTANT PROFESSOR.** Applications from established investigators at a more senior level will also be considered. Successful candidates will be expected to pursue an active program of biomedical research, preferably within the area of eukaryotic gene expression, and to participate in graduate and medical teaching.

Located in the University Heights section of Newark, a few minutes from New York City and pleasant New Jersey suburbs, University of Medicine and Dentistry of New Jersey-New Jersey Medical School provides a stimulating and collegial environment with substantial resources.

Send a complete curriculum vitae, brief outline of your research plans, and the names of three references to: **Dr. Michael B. Mathews, Chairman, Department of Biochemistry and Molecular Biology (S), University of Medicine and Dentistry of New Jersey-New Jersey Medical School, 185 South Orange Avenue, University Heights, Newark, NJ 07103-2714.**

University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS CENTER FOR IMMUNOTHERAPY OF CANCER AND INFECTIOUS DISEASE

Applications are invited for two tenure-track faculty positions at either **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the newly established Center at the University of Connecticut School of Medicine. Successful candidates will be leaders of independent programs at the cutting edge of basic immunology and/or immunotherapy grounded in experimental programs. The Center aims to establish itself as a collegial, scientific group focused on the immunotherapy of cancer, infection, and autoimmune disease. To apply, send curriculum vitae, description of research interests, and the names of three references to:

**Pramod K. Srivastava, Ph.D.
Director, Center for Immunotherapy of
Cancer and Infectious Disease
Medical Dean's Office
University of Connecticut School of Medicine
263 Farmington Avenue
Farmington, CT 06030-1920**

(Search Codes: 96-352, 96-353)

An Affirmative Action/Equal Opportunity Employer. Minorities/Females/Persons with Disabilities/Veterans.

BIOLOGIST. University of Central Oklahoma. **ASSISTANT PROFESSOR.** Full-time appointment; starts 18 August 1997. Requires Ph.D. in biological sciences or related area. Higher-education teaching experience preferred. Teach introductory microbiology, general biology (non-majors) and advanced course in specialty. Develop protistan biology or non-medical microbiology research program. Direct Master's research. University of Central Oklahoma has a published Faculty Salary Schedule. Submit application letter, résumé, transcript copies for all degrees and names and telephone numbers of three references to: **Dr. G. Kay Powers, Dean, College of Math & Science, University of Central Oklahoma, Edmond, OK 73034.** Postmarked application deadline: April 4, 1997. Position #22008. *Affirmative Action/Equal Opportunity Employer.*

Tenure-track positions in coastal studies. Three **ASSISTANT PROFESSORSHIPS** at the University of Connecticut, Avery Point. In Marine Sciences Department: 1) biological processes in the coastal zone and 2) coastal sedimentary processes and physical oceanography. In Geography Department: environmental management. To teach introductory and advanced undergraduate courses in a new interdisciplinary degree in coastal studies, plus graduate education and research. Telephone: 860-405-9026; Email: coastal@uconnvm.uconn.edu; <http://www.ucc.uconn.edu/~wwwmsd/coasthom.html>. *Affirmative Action/Equal Opportunity Employer.*



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder

Postdoctoral Research Position

HIV Pathogenesis/ Human Gene Therapy

An immediate opening is available for a recently graduated postdoctoral fellow to conduct research in the areas of HIV pathogenesis (analysis of Nef function) and/or human gene therapy (development of lentivirus-based gene transfer systems). A strong background in molecular and cell biology substantiated by peer reviewed publications essential. Knowledge in cell signaling and/or retrovirology would be beneficial.

For consideration, please submit a current CV, a list of publications and the names and addresses of three references to: **Dr. J. Victor Garcia, Associate Member, Dept. of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38101.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS: MOLECULAR MICROBIOLOGY AND IMMUNOLOGY

Applications are invited for postdoctoral positions in the Department of Molecular Microbiology and Immunology at the University of Missouri, School of Medicine, Columbia, Missouri. General areas of research include:

- Molecular aspects of microbial pathogenesis and microbial immunology
- Molecular approaches to immunobiology and immunochemistry; mechanisms of B-cell activation, induction of autoimmunity, class I antigen presentation, T lymphocytes, lymphocyte trafficking, mucosal immunity, protective immunity against HIV
- Regulation of gene expression in prokaryotic and eukaryotic systems including: iron regulated operons in *E.coli*, mycoplasma and yeast systems, and molecular virology (DNA viruses and retroviruses)
- Membrane structure and function; mechanisms of phenotypic switching; surface antigen variation
- Intracellular signaling mechanisms in neutrophils, lymphocytes, yeast
- Mechanisms of oncogene action in eukaryotes
- Vaccine development
- Early nematode development; analysis of germline lineage determination in *Caenorhabditis elegans*
- Pathogenic mechanisms of *Vibrio cholerae*, *Haemophilus influenzae*, *Burkholderia cepacia*, *Borrelia*, *Rickettsia* and *Ehrlichia*

Complete descriptions of research programs are available. Applicants should direct their inquiries to: **Ms. Sandy Selby, Department of Molecular Microbiology and Immunology, University of Missouri, M616 Medical Sciences Bldg., Columbia, Missouri 65212, Phone (573) 882-8989, Fax (573) 882-4287** Qualified applicants may be supported by a departmental NIH training grant, an interdisciplinary Molecular Biology Program fellowship, or individual research grants.

The University of Missouri is an Equal Opportunity Employer and encourages applications from females and minorities.

THE WORLD DEPENDS ON THE

Commitment

Of Our Professionals.

Revolutionary new products. Unsurpassed research.

A commitment to redefining the future of health care. That's Abbott Laboratories, and it's the talent of our professionals that makes us the undisputed leader we are today. If you're looking for a professional environment built on innovation, look at the opportunities available at Abbott Laboratories. Currently, our Pharmaceutical Products Division is meeting this commitment with several innovative breakthroughs and now seeks the following individuals.



BIOINFORMATICS SECTION MANAGER

You will lead computer specialists in software R&D for bioinformatics. This will include implementing and developing strategies for new technology/algorithms, operating a distributed UNIX network, and leading software efforts in C, relational data and the Web. You will also collaborate with biologists and chemists, provide user support, and act as the scientific computing liaison.

We require a Ph.D. in Biology, Molecular Biology or Chemistry and 4 years of research experience in Biology/Molecular Biology, including a background supporting software development in a medical or research environment. We also require 2 years of project leadership/supervisory skills. Excellent interpersonal and communications skills are a must. (Job #96-LHD-1662)

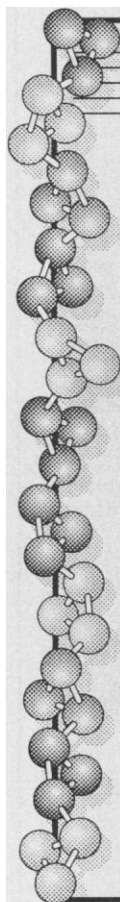
POST-DOCTORAL FELLOW

This is a unique opportunity to use your computer programming skills to support in-depth structural biology research. Utilizing a UNIX workstation environment, you will apply client/server techniques to the support of commercial and other third party application systems. This includes developing new algorithms and systems, as well as applying software to modeling studies in the investigation of protein-ligand complexes.

The ideal candidate will have a Ph.D. in Chemistry, Computational Chemistry or equivalent with 4+ years experience in application programming for the sciences, as well as supporting scientific computations. A minimum of 3 years experience in computational chemistry or physics, along with excellent communication skills are essential. (Job #96-LHD-0563)

With 52,000 employees worldwide and more than \$11 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please forward your resume and salary history to: **Abbott Laboratories, Job # (please select), D583, AP9ALL, 100 Abbott Park Rd., Abbott Park, IL 60064-3500.** Abbott is an Affirmative Action Employer/Smoke-Free Environment.

**ABBOTT
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Quality Health Care Worldwide



The Starting line for the pursuit of DISCOVERY...

Promega Corporation, a world leader in Biotechnology, strives to provide a rewarding work experience for our employees and to achieve unparalleled excellence, quality and prosperity in our business. We offer an environment that seeks a balance between work and life activities, reflected in our comprehensive benefit package which includes on-site fitness facilities, daycare and an informal work environment. The following career opportunities are currently available:

senior production scientist - cell biology

The selected individual will be responsible for the manufacturing, quality testing of components/kits and supporting the technology transfer process with Promega's cell regulation and neurobiology product lines.

A BS/MS/Ph.D. in Molecular Biology, Microbiology, Biochemistry or related field and a minimum of 3-4 years' experience in manufacturing, R&D, or Quality Assurance are required. Cell culture experience with suspension and adherent cell lines; experience in immunological and cell culture techniques for growth factor assays; outstanding organizational and multi-tasking skills and the ability to keep several cell lines or several assays going simultaneously are also required.

JOB CODE: 12104LM

senior production scientist - protein purification

The chosen candidate will perform all duties necessary for the production of antibody products for inventory and will participate in transferring new antibody products and technologies from R&D to production.

A Ph.D. or equivalent experience in immunology or a related field is required. Extensive experience with relevant applications, including ELISA, Western Blot, Dot Blot and the purification and characterization of polyclonal and monoclonal antibodies; a background handling antisera and animals for immunization; experience with immunohistochemistry and immunocytochemistry; and previous industrial experience are required. **JOB CODE: 12100MK**

For confidential consideration, please mail or e-mail your resume, along with salary requirements, to: **Promega Corporation, P.O. Box 7879, Madison, WI 53707-7879. E-mail: hr@promega.com.** To find out about other opportunities at Promega please call our Career Opportunities Line at **(800) 356-9526** option 9 or visit our website at **www.promega.com**. EOE



Promega

UNIVERSITY OF ROCHESTER MEDICAL CENTER

The University of Rochester and Strong Memorial Hospital announce the establishment of the Department of Neurosurgery, formerly a division of Neurosurgery within our Department of Surgery. We are seeking an individual to serve as the Frank P. Smith Chair and to establish an excellent academic Department of Neurosurgery to complement our traditionally eminent clinical and basic science departments of Neurology, Neurobiology and Anatomy, and Orthopaedic Surgery. Preference will be given to those individuals demonstrating expertise and productivity in the areas of pediatric neurosurgery, neuro-oncology, stereotactic neurosurgery, or experimental neurosurgical techniques. Interested individuals should send a curriculum vitae and names of three references to: James M. Powers, M.D., Chair, Neurosurgery Chair Search Committee, University of Rochester Medical Center, Department of Pathology and Laboratory Medicine, 601 Elmwood Avenue, Box 626, Rochester, New York 14642. We are an equal opportunity employer.

MECHANISTIC TOXICOLOGIST

The Toxicology Department of Rohm and Haas Company has an immediate opening for a Mechanistic Toxicologist. This position is located at our Spring House Research Center, near Philadelphia.

Responsibilities include leading a group that is primarily conducting bioavailability, distribution, and mode of action studies. The toxicologist will use this information as part of an interdisciplinary team developing scientifically based approaches to interspecies extrapolation and risk assessment.

The qualified candidate must have a Ph.D. degree in a relevant discipline (preferably with post-doctoral training) and demonstrated expertise in mechanistic toxicology studies, evidenced by a substantive record of publication in the peer-reviewed scientific literature. Preference will be given to candidates who have used methodology from biochemistry, immunology, and molecular biology to address mechanisms of toxicity observed *in vivo*. The position requires a broad view of toxicology, as well as excellent written and oral communication skills for working productively with regulatory scientists, company scientists and managers. Candidates should be skilled project managers and possess the high energy, aptitude and motivation needed for effective multidisciplinary teamwork.

Rohm and Haas offers a highly competitive salary and benefits program, including profit sharing and relocation assistance. We also provide many programs for the professional development of our scientific staff. Candidates must be legally qualified to hold regular employment in the U.S. For consideration, please forward your resume or C.V., including publication list and references, **no later than April 15, to: Research Staffing #197, Rohm and Haas Research Laboratories B-70, 727 Norristown Road, Spring House, PA 19477-0904.**



An Equal Opportunity Employer M/F/H.

nature medicine

the international, monthly biomedical research journal has an opening for an

Assistant Editor

to work on the News & Views section.

This post is based in New York.

Essential qualifications:

- Education to postgraduate level in one of the biological sciences
- A critical and lively interest in the biomedical research community
- A sense of literacy
- Some research experience
- Familiarity with Nature Medicine

The main responsibility will be the soliciting and editing of News & Views articles with a view to highlighting the most important research within the community and stimulating awareness and interest from a broad range of readers. To apply, please send your CV and a concise letter explaining your interest in this post, to the Editor, Nature Medicine, 545 National Press Building, 529 14th Street NW, Washington DC, 20045, fax: 202-626-0970, email: medicine@naturedc.com, as soon as possible and no later than **March 17th, 1997.**

THE J. DAVID GLADSTONE INSTITUTES

University of California, San Francisco
San Francisco General Hospital



Postdoctoral position available immediately in the laboratory of **Dr. Bruce Conklin**. Study G protein signaling in transgenic mice using specially designed receptors and the tetracycline transactivator system. Strong background in molecular/cellular biology is required. For details see website. #C97-011.

Postdoctoral position available in the laboratory of **Dr. John Taylor**. Investigate and characterize tissue specific control elements in the apoE gene locus using transgenic and gene targeted mouse models together with chromatin analysis. #C97-012.

Postdoctoral position available in the laboratory of **Dr. Robert Pitas**. Study the molecular basis for the impact of apolipoprotein E4 on neurite outgrowth and Alzheimer's disease. A combination of *in vitro* studies and studies with transgenic models will be used to examine the mechanism for the contribution of apolipoprotein E4 to Alzheimer's disease. Candidates should possess an M.D. or Ph.D. in neurobiology. #C96-017.

Postdoctoral position available immediately in the laboratory of **Dr. Israel Charo**. Study the molecular biology of Chemokine Receptors. Methodology includes transgenic and knockout models. Molecular mechanisms of chemotaxis and roles as Co-Receptors for internalization of HIV-1. A strong background in molecular/cellular biology is required. #C95-063.

Interested candidates, please send C.V. and references to: Job #_____, The Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141. Fax (415) 826-3708.

For more information about the Gladstone Institutes, please visit our website: <http://gladstone.ucsf.edu>

Equal Opportunity/Affirmative Action Employer

United States Department of Agriculture

Opportunities for...

RESEARCH SCIENTISTS & POSTDOCTORAL RESEARCH ASSOCIATES



The Agricultural Research Service, as the principal scientific research agency of USDA, conducts research to solve technical food and agricultural problems of broad scope and high national priority. The agency's work is carried out under six specific research objectives--conservation of soil, water and air, plant productivity, animal productivity, commodity conversion and delivery, human nutrition and well-being, and integration of systems. Overall aim of ARS research is to ensure the continuation of an adequate supply of food and fiber of high quality to meet the needs of American people and for export.

ARS is an Equal Opportunity Employer

Opportunities exist nationwide in many research areas, including:

- Human Nutrition
- Genetics
- Immunology
- Virology
- Biochemistry
- Chemistry
- Microbiology
- Animal Science
- Entomology
- Plant Physiology
- Plant Pathology
- Agronomy
- Soil Science
- Engineering

Individual vacancies will be advertised and announcements can be accessed on the ARS Home Page at: <http://www.ars.usda.gov>.

Research Scientist appointments may be permanent or temporary and require U.S. citizenship.

Postdoctoral Research Associate opportunities are initially for up to 2 years. There are some employment restrictions for non-U.S. citizens.

If access is unavailable via internet, you may call or write for written descriptions of positions and application procedures for Postdoctoral Research Associate positions:

Susan Dixon
Human Resources Division
USDA/ARS
6305 Ivy Lane, Room 113
Greenbelt, MD 20770-1435
301-344-8057

IMMUNOLOGY POSITIONS

DNAX Research Institute, located near Stanford University, has two staff positions available in the Department of Immunobiology. Candidates should hold a Ph.D. and/or M.D. degree, have completed postdoctoral training and, preferably, a period as an independent investigator.

The Institute conducts research in a variety of areas of molecular and cellular biology with an emphasis on immunology, hemopoiesis and oncology. We are particularly interested in individuals with expertise in the following areas: Autoimmunity, Chemokines, Adhesion and Lymphocyte Migration, Allergy and Transplantation Immunology.

The Department of Immunobiology presently comprises ten research groups with a focus on cytokine regulation of immune responses, T and NK cell differentiation and activation, murine models of inflammation and disease, chemokines and chemokine receptors, and dendritic cell biology. We are looking for creative individuals who will contribute innovative science to this productive research program, and would enjoy strong interactions with colleagues in our Departments of Cell Signaling and Molecular Biology.

The successful candidates will be expected to establish an independent basic research program in their area of interest. DNAX scientists work in an academically-styled environment complemented by a strong and international postdoctoral program.

Qualified applicants should send a curriculum vitae, a one-page statement of research interest, and the names of three references to: Human Resources Department, DNAX Research Institute, 901 California Avenue, Palo Alto, CA 94304-1104. DNAX is an equal opportunity employer, m/f/h/v.

DNAX Research Institute

Aquila Biopharmaceuticals, Inc. is a newly formed company which creates and commercializes products that stimulate the immune system to control or prevent infectious diseases and cancer. Aquila, a greater Boston area company, has a portfolio of products on the market and in development, product manufacturing expertise and an extensive network of corporate licensees as well as academic collaborations.

SENIOR IMMUNOLOGIST

We are seeking an individual with experience in cellular immunology, antigen processing, and cytokine signaling. This position requires an excellent working knowledge of immune response to bacterial, fungal, viral, and parasitic pathogens. Ph.D. Post Doc. and 5+ years of experience or equivalent required. Scientific recognition from publication and speaking record. Should have strong industrial experience.

Please address all correspondents to
Aquila Biopharmaceuticals, Inc.,
Human Resource Dept.,
365 Plantation Street, Worcester,
MA 01605 or Fax your resume to
508-751-5546. No telephone calls
please. Aquila is an equal
opportunity employer, M/F/D/V.

AQUILA

Howard Hughes Medical Institute

Beamline Support Scientist

The Howard Hughes Medical Institute is seeking a scientist to oversee the user program at the HHMI Synchrotron Resource at the National Synchrotron Light Source, Brookhaven National Laboratory.

The position requires a Ph.D. or equivalent degree in an appropriate science and experience in macromolecular crystallography. Since interactions with beamline experimenters are crucial, appropriate communication skills are essential.

The Beamline Support Scientist will assist and report to the Resource Manager, Dr. Craig Ogata, in the management of the user program for the HHMI beamlines at X4. Specific responsibilities will include the following:

- oversee the processing of beamtime requests.
- administer the review of proposals and interact with the Proposal Review Committee.
- schedule beamtime usage in consultation with Dr. Ogata.
- assist users in initiating their experiments at the beamlines.
- assist in maintenance and improvement of the beamlines.
- develop software and computing capabilities for on-site processing and analysis of diffraction data, particularly for MAD experiments.

While the specific responsibilities for beamline operations are paramount, there will also be an opportunity for research. This may take the form of crystallographic structure determination or methodology development.

This position carries excellent salary and benefits. Applicants should submit their resumes to: HHMI, P.O. Box 959, Upton, NY 11973, Attn: Jean Burgon. EOE.

<http://www.hhmi.org>



nature genetics

Nature Genetics is seeking an ASSISTANT EDITOR to join its editorial staff, which is relocating in the spring to New York City.

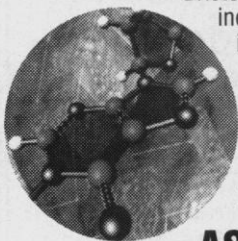
This is a superb opportunity to enter the world of scientific publishing while staying at the forefront of modern genetics research. The successful candidate will participate in all aspects of the editorial process, including manuscript selection and writing for the journal. We are seeking a talented scientist with a Ph.D. in molecular biology or genetics, excellent literary skills and broad interests in biomedical research and the communication of science.

Please email or fax a CV (with the names of three references) and a cover letter detailing your qualifications and ideas for the development of the journal, no later than March 24, to:

The Editor, *Nature Genetics*
545 National Press Building
Washington, DC 20045 USA
Phone: 202-626-2513
Fax: 202-626-0970
email: natgedc.com



Bristol-Myers Squibb



Bristol-Myers Squibb Company, a leader in industrial biotechnology and a major international manufacturer of pharmaceuticals, has an opportunity in its Syracuse, NY Genetic Engineering group to provide support to Genetic Microbiology and Gene Expression Research Programs.

ASSOCIATE SCIENTIST

The Associate Scientist will improve antibiotic productivity of fungal and microbial strains, as well as develop or adapt new techniques for fungal and microbial biotechnology, perform data analysis and present results.

The successful candidate will have a B.S. with 2-4 years experience or an M.S. with 0-2 years in molecular or microbiology, an excellent understanding of gene expression, and experience in genetic engineering technology, enzyme characterization and/or strain improvement.

We offer an excellent salary, comprehensive benefits and a working environment conducive to professional growth. For confidential consideration, forward your resume with salary requirements to: **Manager, Human Resources, BRISTOL-MYERS SQUIBB, Position #SY96083, P.O. Box 4755, Syracuse, NY 13221-4755.** Equal Opportunity Employer, M/F/D/V.



Pharmaceutical
Division

Bayer Corporation, Pharmaceutical Division, located near Raleigh, NC is expanding the Biochemistry Research Group to meet the needs of our expanding Biological Products business. We have the following openings for qualified scientists.

BIOCHEMISTRY RESEARCH SCIENTISTS

These positions will be dedicated to the purification and development of therapeutic proteins from human plasma. Both positions require an M.S. in Biochemistry, Hematology, Immunology or a related field with a minimum of four years of relevant research experience. Successful candidates will have demonstrated expertise in the purification and characterization of plasma proteins using state-of-the-art protein separation and analytical methodologies and will be expected to function effectively in a team-oriented work environment. Extensive experience operating bioprocessing workstations is essential. Prior experience with immunochemical techniques and in vitro cellular assays would be a distinct advantage.

Position 97-10: This individual will focus on the purification and characterization of lipoproteins, as well as other plasma proteins.

Position 97-10A: This individual will focus on the purification and characterization of antibodies and complement proteins, as well as other plasma proteins.

Bayer offers an excellent compensation package commensurate with qualifications. Send resume with position number clearly identified to: Human Resources Representative/KC, Bayer Corp., PO Box 507, Clayton, NC 27520. An Equal Opportunity Employer M/F/D/V.

GLOBAL CAREER OPPORTUNITIES

UNIVERSITY COLLEGE LONDON

Centre for Molecular Medicine

Lecturer B

Applications are invited from postdoctoral scientists with a strong record in signal transduction and/or protein chemistry to develop and lead a Group undertaking research in these areas.

Other Groups in the Centre are those of Professor Tony Segal (microbicidal mechanisms of neutrophils with particular reference to the NADPH oxidase and the biochemistry of its components, and their interactions, and signal transduction and activation mechanisms), Dr Jurgen Roes (application of gene targeting to delineating proteins involved in microbial killing, inflammation, and other areas of immunity), Dr Fred Sablitzky (regulation of cell differentiation by helix/loop/helix proteins), and Dr Gordon Stewart (erythrocyte cytoskeleton). Accommodation will be in the Rayne Institute but will move to the Cruciform Project for Strategic Medical Research in due course.

The salary scale (under review from April 1997) is £21,194 to £27,091 plus £2,134 London Allowance. Appointment will be for 5 years in the first instance. Professor Segal welcomes informal discussion on +44 (0)171-209-6175 or email t.segal@medicine.ucl.ac.uk

Applicants should send a CV with contact details (including fax and email if available) to reach Professor AW Segal at UCL Department of Medicine, Gower Street, London WC1E 6BT by Friday 28 March 1997.

Working towards Equal Opportunity

DEPARTMENT OF ANATOMY AND NEUROBIOLOGY COLLEGE OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES COLORADO STATE UNIVERSITY Tenure-Track Faculty Position Veterinary Anatomist

The Department of Anatomy and Neurobiology at Colorado State University has a tenure-track opening for a veterinary anatomist at the level of Assistant Professor or higher. Academic rank will be commensurate with professional experience. Candidates are expected to have a Ph.D. Preference will be given to individuals who also have a DVM. The Department is an integral part of the Professional Veterinary Medicine Program, which was selected by the Colorado Commission on Higher Education as a Program of Excellence. The Department is a major participant in the campus-wide Molecular, Cellular and Integrative Neuroscience Program. The successful candidate will be expected to contribute to departmental teaching in the Professional Veterinary Medicine Program, and to courses in the undergraduate and graduate curricula. Preference will be given to applicants with experience in the development and use of computer-assisted instruction.

The successful applicant will be expected to maintain an extramurally-funded research program. Research interest should complement those of the Department and the Molecular, Cellular and Integrative Neuroscience Program. Particular areas of interest include structural biology, integrative neuroscience and/or developmental neurobiology. Applicants with research interests in other areas will be considered.

Applications will be accepted until April 18, 1997 or until a suitable candidate is identified. Send curriculum vitae and names of three references to: **Chair, Search Committee, Department of Anatomy and Neurobiology, Colorado State University, Fort Collins, CO 80523-1670.** CSU is EEO/AA employer. E.O. Office: 101 Student Services, Colorado State University, Fort Collins, CO 80523-1016.

Director of Biology

Headquartered in a new 66,000 square foot research facility in the San Francisco Bay Area, Tularik Inc. is a privately held biotechnology company dedicated to the discovery and development of novel small molecule drugs that act through the regulation of gene expression. Tularik has therapeutic programs in viral diseases, inflammation, hypercholesterolemia, immune disorders, obesity and bacterial diseases. A unique opportunity exists for a Director of Biology to help us shape the future of human therapeutics.

We are particularly interested in a dynamic leader who has an accomplished record of scientific achievements in biochemistry, molecular, cellular or structural biology. The desired candidate will be distinguished by his or her insightful knowledge of biology and medicine, possess excellent communication and interpersonal skills, and have an innovative approach for building upon existing strengths in the laboratory and department. In addition to leading the Biology department and establishing an active research laboratory, the Director of Biology will play a key role in identifying and implement new research projects at Tularik.

The Director of Biology position at Tularik will provide exceptional professional challenge, responsibility and opportunity, and will be accompanied by an attractive compensation package, including equity. To be considered for this exciting position, please send, fax or e-mail your resume to:

Tularik Inc.
Human Resources
Two Corporate Drive
South San Francisco CA 94080
Fax: (415) 829-4355
email: biologydirector@tularik.com

equal opportunity employer



Creating Drugs That Regulate Genes

GLOBAL CAREER OPPORTUNITIES

RIKEN

Chief Scientist to Lead Research in SR Structural Biology Permanent Position The Institute of Physical and Chemical Research (RIKEN)

RIKEN invites applicants for the position of Chief Scientist to lead a new laboratory working on Synchrotron Radiation Structural Biology. While applications from overseas applicants are welcome, the position requires fluent Japanese. The successful candidate will be responsible for the laboratory's overall management and research strategy, directing research projects and contributing to more general aspects of RIKEN's management and research planning activities. The Structural Biology Division of RIKEN Harima Campus at the SPring-8 site (Harima Science Garden City, Hyogo) is composed of three laboratories, Structural Biophysics, Structural Biochemistry and Theoretical Structural Biology Laboratory. Structural Biophysics Laboratory is devoted to the structural studies; mainly by physical methods as diffraction and small-angle scattering with X-rays (synchrotron radiation), whereas Structural Biochemistry Laboratory performs structural studies by biochemical techniques, i.e., isolation, purification and crystallization, as well as large-scale expression of general and scarce proteins by the use of genetical engineering. The application is for the Chief Scientist who leads the Structural Biochemistry Laboratory. Applicants should have appropriate research experience supported by relevant publications.

The post is a permanent appointment, subject to RIKEN's mandatory retirement age of 60. Terms and conditions of employment shall include a director-level salary and in accordance with RIKEN's procedures for appointing Chief Scientists, RIKEN expects that the successful applicant will be able to take up this position on October 1, 1997.

Applicants should send a full curriculum vitae and photograph; 1 copy of five key publications; a statement (five sides of A4) explaining former research experience, reasons for their application and proposals for research at RIKEN, and; the names and addresses of three referees. Further details are available from the address below. All applications should reach RIKEN by June 30, 1997.

Applicants should address all correspondence to:

Dr. Tatzuo Ueki, Head of the Chief Scientist Nominating Committee, Biophysics Laboratory, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-01, JAPAN. Tel: +81-48-467-9386; Fax: +81-48-462-4646.

Information about RIKEN and its procedures for appointing Chief Scientists is available on: WWW: <http://www.riken.go.jp/>.

AWARDS

THE NATIONAL RESEARCH COUNCIL

is accepting applications for a

Postdoctoral Research Associateship Award

tenable at the

NASA

**John C. Stennis
Space Center, MS**

Applicants are sought for a competitive award to be offered for research to be conducted in the Earth System Science Office at the National Aeronautics and Space Administration's Stennis Space Center. The awardee will work independently on a project of his/her own design that addresses remote sensing applications of coastal (Case 2) waters, development and validation of bio-optical properties (algorithms) derived from ocean color, and analysis of data for calibration-validation program.

Duration of award is one year renewable in annual increments for a total of three years maximum. Award includes annual stipend of \$34,500 for recent Ph.D. recipients. Stipend is appropriately higher for more experienced investigators. Additional provisions include support for relocation and professional travel and an available health insurance program.

**Deadlines for Application are April 15,
August 15 and January 15.**

For further information contact:
Dr. Richard L. Miller
Chief, Earth System Science Office
NASA, SA00, BLDG. 1100
Stennis Space Center, MS 35929
TEL: (601) 688-1904
FAX: (601) 688-1777
EMAIL: richard.miller@ssc.nasa.gov

For application materials contact:
NATIONAL RESEARCH COUNCIL
The Associateship Programs
(TJ-2114/M3)

2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759
EMAIL: rap@nas.edu



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Bioinformatics
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**The Jackson Laboratory: a unique
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leled mouse resources.**

Letters of inquiry should include: curriculum vitae, statement of research interests, list of publications, and names of three references. (Predoctoral programs are in conjunction with the University of Maine and Yale University.) To apply or request further information, contact: **Suzanne Serreze, The Jackson Laboratory, 600 Main St., Bar Harbor, ME 04609-1500. Phone: 207/288-6420; FAX: 207/288-6079; email: sbs@jax.org. EE/AA Employer.**

GLOBAL CAREER OPPORTUNITIES

THE CHINESE UNIVERSITY OF HONG KONG

Faculty of Medicine

The University (founded 1963) offers comprehensive programmes up to PhD level. Student enrolment in 1996-97 is around 12,600. The Faculty of Medicine offers undergraduate and postgraduate programmes in Medicine, Nursing and Pharmacy. The MBChB programme admits 160 students annually and is fully recognised by the General Medical Council of the United Kingdom. Clinical courses are taught at the Faculty's 2,450-bed teaching hospital, the Prince of Wales Hospital (which is one of the regional hospitals in Hong Kong) and at the Lek Yuen Health Centre. English is used in teaching and administration in the Faculty of Medicine.

Applications are invited for the following post:

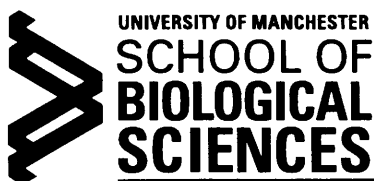
Department of Physiology

Reader (carrying the academic title of Professor) or **Senior Lecturer** (carrying the academic title of Associate Professor or Professor, as appropriate) (Ref. 97/015/665)/2

Applicants should have a PhD degree or a medical qualification and ample teaching and research experience in the field of Physiology. The Department offers courses to medical, nursing and pharmacy students of the Faculty and to Science students majoring in Human Biology. The Department's current research interests are in the areas of ion channels and epithelial transport, neurophysiology, reproductive physiology, cardiovascular physiology, molecular endocrinology. Preference will be given to applicants whose research interests are in reproductive physiology. The appointee is expected to assume duty in July 1997 or as soon as possible thereafter.

Annual Salary and Fringe Benefits: Reader HK\$792,660 - HK\$1,053,060 by 8 increments; Senior Lecturer HK\$759,780 - HK\$1,020,660 by 8 increments (approx. exchange rate in February 1997: £1 = HK\$12.68; US\$1 = HK\$7.8). Starting salary and grade will be commensurate with qualifications and experience. Benefits include leave with full pay, medical and dental care, children's education allowance, housing benefit for eligible appointee (with appointee contributing 7.5% of salary towards the provision of housing). Appointment will initially be made on fixed-term contract basis, with a contract-end gratuity (15% of basic salary) where applicable. Further information about the University and the general terms of service for staff is available on our World Wide Web home page <<http://www.cuhk.edu.hk>>.

Application Procedure: Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees, to the Personnel Office, The Chinese University of Hong Kong, Shatin, NT, Hong Kong (Fax [852] 2603 6852) before **12 April 1997**. Please quote the reference number and mark "Recruitment" on cover. [Note: The University reserves the right not to fill the post or to fill the post by invitation.]



Chair in Genetics (Ref No. 105/97)

The purpose of this new appointment is to provide leadership in Genetics within the School of Biological Sciences. Applications are sought from candidates with a strong reputation in any aspect of genetics. The person appointed will establish a vigorous research programme and be responsible for over-viewing the further development of genetics within our undergraduate and graduate programmes.

Applications, giving full details of qualifications and experience, and the names of three persons from whom reference may be sought should be sent to the **Director of Personnel, University of Manchester, Oxford Road, Manchester, M13 9PL**, from whom particulars may be obtained (tel. (0) 161 275 2028, fax. (0) 161 275 2221, minicom (0) 161 275 7889 (for the hearing impaired), email personnel@man.ac.uk. Please quote ref. 105/97. Informal enquiries may be made to **Professor NJ Rothwell, Director: Research & Graduate School**, (tel. (0) 161 275 5357, fax. (0) 161 275 5948, Email: Nancy.Rothwell@man.ac.uk. Closing date 4 April 1997.

As an Equal Opportunities Employer, the University welcomes applications from suitably qualified people from all sections of the community, regardless of race, religion, gender or disability.



Nestlé

THE NESTLÉ RESEARCH CENTRE AT
LAUSANNE IN SWITZERLAND

is seeking a

FOOD MICROBIOLOGIST

to supervise a small team of microbiologists and technicians involved in research on dairy lactic acid bacteria and on development of fermented products.

Candidates should have a Ph.D. in food microbiology ideally with at least two years experience in research and development. Good knowledge of dairy products and on their production processes is required.

The successful candidate is expected to be involved in international projects requiring good communication skills. Excellent knowledge of English (written and spoken) is essential; other languages are considered as a plus.

Should you be interested, please send your application, including curriculum vitae and names of three references (address and telephone number) to the following address:

Nestlé Research Centre

Human Resources

Attn. Mr. M. Jullierat

P.O. Box 44

CH-1000 Lausanne 26 Switzerland



CENTER FOR CLINICAL AND BASIC RESEARCH

The Center for Clinical & Basic Research is an international institute for biomedical research, located in the area of Copenhagen.

It promotes symbiosis between applied and fundamental research, brings together techniques and concepts from a variety of scientific fields, and recruits expert scientists from all over the world.

The research performed at the Center for Clinical & Basic Research is rapidly expanding, and has implications in serious health issues, such as osteoporosis, atherosclerosis, and cancer.

The Center for Clinical & Basic Research
offers a position for a:

Research Scientist

The successful applicant will participate as cell biologist in a project on the role of proteinases in cell-matrix interactions.

A Ph.D or equivalent, and at least 4 years of experience in laboratory research are desirable.

The ideal candidate will have experience in investigations on the mechanisms of cell migration, invasion and attachment.

Please forward cover letter, CV, bibliography, and 2 letters of recommendation to J.M. Delaissé, CCB, 222 Ballerup Byvej, DK-2750 Ballerup, Denmark

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SCIENCE will be attending the following European Meetings, Conferences and Symposia and providing free bonus issues to delegates. All recruitment advertisements in these bonus issues will also be placed On-Line on the SCIENCE Professional Network for a full two weeks. Don't miss these great opportunities to reach thousands of European scientists.

Issue Date: 4 April 1997
Booking Deadline: 18 March 1997
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13-15 April, Cambridge, UK
**Federation of European
Materials Societies**
20-23 April, Maastricht,
Netherlands

Issue Date: 11 April 1997
Booking Deadline: 25 March 1997
Bonus Distribution:

**European Geophysical
Society**
21-25 April, Vienna, Austria

Issue Date: 2 May 1997
Booking Deadline: 15 April 1997
Bonus Distribution:

**European Society for Human
Genetics**
19-21 May, Genoa, Italy

Issue Date: 9 May 1997
Booking Deadline: 22 April 1997
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International Aspirin® Award 1997

Young Researchers' Aspirin® Award

The Young Researchers' Aspirin® Award's objective is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. Only **1** paper can be submitted per year but it might be resubmitted within the time limit. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award's value is DM 20,000.

Entries will be judged by an international scientific committee representing basic and clinical research.

Submit your manuscript (English language, 2 copies) with your Curriculum Vitae, a list of the 5 most important recent publications (= last 5 years) and a statement of your Head of Department confirming the independence of the scientific work and indicating the sources of financial funding.

Applications should be mailed to the following address:

International Aspirin® Award
c/o Bayer AG
BG Consumer Care/EU-PDC/Medicine
Building C 151
D-51368 Leverkusen/Germany

Deadline for submission is April 30th, 1997 (postal mark!).



POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

The Division of Toxicology is recruiting a full-time tenure-track faculty member at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Candidates should have a Ph.D. or equivalent degree, evidence of research productivity, and a commitment to quality teaching of graduate and medical students. Applicants at the level of Associate or Full Professor should have extramural research funding. Research excellence in any area of toxicology or pharmacology is the top priority. Individuals with a background in both molecular toxicology and occupational health are especially encouraged to apply. Excellent opportunities are available for collaborative research with other faculty in the Department of Pharmacology and Toxicology as well as other departments at the University of Arkansas for Medical Sciences, and with adjunct faculty at the nearby National Center for Toxicological Research. An excellent start-up package and new laboratory space in our Biomedical Research Building will be available for the successful candidate. Our Internet web site is at <http://www.uams.edu/pharmtox/pharmtox.htm>. Candidates should send curriculum vitae, a brief prospectus, and the names of three references to: Jack A. Hinson, Ph.D., Division of Toxicology, slot 638, University of Arkansas for Medical Sciences, Little Rock, AR 72205. Applications should be received before May 1, 1997. *University of Arkansas for Medical Sciences is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology invites applications for positions at the level of **ASSISTANT PROFESSOR**. Candidates must hold the degree of Ph.D. or M.D. and have a minimum of two years of postdoctoral research experience. The department's goal is to create a diverse and interactive research environment that includes individuals with expertise in ion channel biophysics, imaging, synaptic transmission, and other aspects of cellular neurophysiology.

We thus encourage applications from individuals who will develop strong, independent research programs who are also interested in an exchange of ideas and information among scientists taking diverse approaches to the study of the function of ion channels, neuronal local circuitry and synaptic physiology.

Applicants should send a curriculum vitae, a brief statement of research accomplishments and plans, and the names of three individuals who might write on their behalf, before April 15, 1997 to:

David Clapham, M.D., Ph.D.
Department of Neurobiology
Harvard Medical School
220 Longwood Avenue
Boston, MA 02115

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. We are especially interested in women and minority candidates.

OHIO STATE UNIVERSITY GROWTH AND MUSCLE CELL BIOLOGIST

The Department of Animal Sciences, Ohio State University, Columbus, Ohio, invites applications for a 12-month tenure-track position at the **ASSISTANT PROFESSOR** level. Responsibilities are 60% teaching and 40% research. The individual will develop and teach both undergraduate and graduate level courses in cellular and molecular aspects of animal growth. The successful applicant will also be expected to establish a strong, competitive extramurally-funded research program pertaining to meat quality or growth of meat animals. Qualifications should include a Ph.D. in an appropriate area with training in muscle cell biology, molecular biology, biochemistry, and physiology. Application deadline is May 1, 1997. Send curriculum vitae, research experience, qualifications, and a list of three references to: Burk A. Dehority, Chair of the Search Committee, Department of Animal Sciences, Ohio Agricultural Research and Development Center, 1680 Madison Avenue, Wooster, OH 44691-4096. Telephone: 330-263-3909; FAX: 330-263-3949; Email: dehority.1@osu.edu.

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

MARINE CHEMICAL ECOLOGIST UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

This tenure-track **ASSISTANT PROFESSOR** position in the Curriculum in Marine Sciences will be stationed at University of North Carolina's Institute of Marine Sciences in Morehead City, North Carolina. Applicants should have Ph.D. in chemistry, or equivalent chemical training with a Ph.D. in a related field. Additional experience should be in ecology with a focus on the role of marine secondary metabolites or natural products in affecting basic ecological and evolutionary processes at the level of the population or community. Applicants will be expected to establish a strong, independent, externally-funded research program that takes advantage of the Institute's coastal field location. Existing faculty strengths that offer opportunities for productive interaction include the ecology of plants, animals, and microbes as well as hydrodynamics and sedimentology of coastal habitats. Demonstrated interest in the biotechnological development of marine natural products is desirable. Teaching obligations will be in the area of Biological Oceanography at the Chapel Hill Campus. Send curriculum vitae, statement of research and teaching interests, and four letters of recommendation to: Marine Chemical Ecology Search Committee, University of North Carolina at Chapel Hill, Institute of Marine Sciences, 3431 Arendell Street, Morehead City, NC 28557; FAX: 919-726-2426. For full consideration, applications should be received by April 21, 1997, but will be accepted until the position is filled.

The University of North Carolina at Chapel Hill is an Equal Opportunity Employer. Minority and female candidates are encouraged to apply and identify themselves.

ASSISTANT PROFESSOR ENTOMOLOGY AND APPLIED ECOLOGY

ASSISTANT PROFESSOR, tenure-track. Ph.D. in wildlife, conservation biology, or ecology with application to conservation. Will require excellent and innovative teaching and advisement of wildlife conservation students. Teach wildlife management, wildlife techniques, and two to three existing or new courses including study trips. One course per term in the first year. Summer and winter session optional. Maintain externally-funded research program that includes mentoring M.S. and undergraduate students. Postdoctoral experience, and credentials in any of the following, preferred: wetland ecology, quantitative aspects of conservation, wildlife conservation in mixed-use landscapes, restoration ecology, habitat classification, ecosystem management, field experience, and tropical experience. Start July 1, 1997. See <http://www.udel.edu> for details of the department and University of Delaware. Send cover letter, curriculum vitae, transcripts, and three letters of recommendation to: R. R. Roth, Search Chair, Entomology and Applied Ecology, University of Delaware, Newark, DE 19717-1303. Deadline April 4, 1997.

The University of Delaware is an Equal Opportunity Employer which encourages applications from minority group members and women.

ASSISTANT/ASSOCIATE PROFESSOR

One long-term-track **FACULTY POSITION**. Begin August 1997. Ph.D. required, teaching experience— anatomy/physiology. Expected to teach undergraduates with opportunity for graduate teaching. Experience in small college preferred. Liberal arts environment. Responsibilities include academic advising, committee work, expected to engage in biomedical research with undergraduates and to publish. Experience in gross anatomy helpful. Strong record of teaching excellence and scholarship desirable. Letter stating interests, complete résumé, transcripts, and three letters of reference due prior to March 31, 1997 to: Sister John Karen Frei, Dean, School of Natural and Health Sciences, Barry University, Miami Shores, FL 33161.

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POSITIONS OPEN

NMR APPLICATIONS SPECTROSCOPIST

The chemistry department at Rutgers, The State University of New Jersey, New Brunswick, is seeking an NMR applications spectroscopist with training and experience to provide comprehensive NMR spectroscopy applications support to faculty. The duties will include developing and implementing state of the art NMR pulse sequences, training and assisting students in the use of NMR equipment and facilities, managing our NMR facility that includes a 600, 500 and 400 MHz spectrometer, providing intellectual NMR support and collaborating with faculty. This position requires a Ph.D., preferably in chemistry, biochemistry or biophysical chemistry plus experience or doctoral research training in multinuclear and multidimensional high field NMR of macromolecules. Interested applicants should send a curriculum vitae and three letters of recommendation to: Professor Jean Baum, Department of Chemistry Rutgers University, Piscataway, NJ 08855-0939. *Rutgers is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY

Biology Department invites applications for two **TENURE-TRACK POSITIONS** to begin fall 1997. Deadline for applications at Platteville is March 31, 1997. Preference given to applicants with excellence in undergraduate teaching and research. Salary commensurate with experience. **Position #1:** Ph.D. in zoology (biology) with a primary background in anatomy and physiology and ability to teach molecular biology, biotechnology, and freshman courses. **Position #2:** Ph.D. in botany (biology) and a solid background in plant pathology and ability to teach mycology, general ecology, and freshman courses. Complete applications: letter expressing interest, current résumé, all transcripts, names, addresses, telephone numbers of three professional references, and one student reference. Send applications to: Dr. Shiv Tandon, Chair, Search and Screen Committee, Biology Department, University of Wisconsin-Platteville, Platteville, WI 53818. Telephone: 608-342-1681. FAX: 608-342-1427.

The names of nominees and applicants who have not requested in writing that their identities be kept confidential, and of all finalists, will be released upon request. *Platteville is an Equal Employment Opportunity/Affirmative Action Employer, and minorities and women are encouraged to apply.*

The University of Iowa Department of Orthopaedic Surgery is seeking an **ASSISTANT RESEARCH SCIENTIST** with experience in research of the musculoskeletal system with an emphasis on cell/molecular biology of the extracellular matrix. The individual should have a Ph.D. or equivalent and have demonstrated ability to plan and execute scientific projects through progressively independent research. Desired qualifications include experience in cell/organ culture, protein and glycoconjugate biochemistry, molecular biology, histological analyses, fluorescence and scanning confocal microscopy, and computer automated image analysis. Send curriculum vitae to: Professor Joseph A. Buckwalter, M.D., Department of Orthopaedic Surgery, 01013 JPP, 200 Hawkins Drive, The University of Iowa Hospitals and Clinics, Iowa City, IA 52242.

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

MOLECULAR ONCOLOGY LABORATORY DIRECTOR. Ph.D. tenure-track position, Department of Surgery, Medical University of South Carolina. Seeking an independent investigator able to conduct and direct high-quality molecular oncology research as part of a new tumor biology research group. Qualifications: Ph.D. with relevant postdoctoral fellowship. Should have evidence of research productivity with peer-reviewed publications and clear potential for independent funding. Responsibilities: development of an independent molecular oncology laboratory directed towards translation into cancer vaccine and gene therapy programs in conjunction with current surgical faculty. Contact: D. J. Cole, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-1387; FAX: 803-792-2048; Email: coledj@muscd.edu.

Genome-based Pharmaceutical Research

SmithKline Beecham is a leader in genome-based pharmaceutical research and development. One of our primary research tools is a large database of human expressed gene sequences which is used by all our research scientists. A major genetics initiative has been established within the laboratories of Dr Peter Goodfellow to maximise the use of this database. Two key components of the initiative are Comparative Genetics in model organisms and Human Genetics.

COMPARATIVE GENETICS

The Department of Comparative Genetics, which is led by Dr Sohaila Rastan, is using functional genomics in model organisms to assign function to novel genes of potential therapeutic importance.

Gene targeting and transgenesis in the mouse

The Department is currently building a mouse knockout/transgenic capability. We are looking for experienced post-doctoral and graduate scientists with a proven track record in the production of genetically modified mice by gene targeting and transgenesis. Candidates will have excellent molecular biology skills with experience in some or all of the following areas: Embryonic Stem (ES) cell culture and manipulation; preimplantation mouse embryo manipulation, including blastocyst injection and pronuclear injection; gene targeting vector design; mouse genetics. Familiarity with the use of databases for comparative genetic analysis would be advantageous. **Ref: BIP08.**

HUMAN GENETICS

The Department of Human Genetics, under the direction of Dr Andrew Rut, is using genetics as a tool for improving and accelerating drug discovery and drug development. Members of the department will be expected to devise optimal strategies for associating genes with phenotypes. The Department works closely with Dr Nigel Spurr and the Genetic Technologies Group, which provides the necessary platform technologies, including high-throughput genotyping, mapping and sequencing.

Clinician-Scientists

Candidates should have trained in adult internal medicine and will have demonstrated research ability in the genetics of human disease. They will be expected to be familiar with the current approaches to the analysis of complex traits. A medical degree plus MRCP or equivalent is essential. A PhD/MD is highly desirable. **Ref: BIP09.**

Statistical & Population Geneticists

Applicants will have trained in statistics and genetics to post-doctoral level and will be skilled in the use of statistical and population methods for the analysis of complex traits. Candidates must have a proven track record in one of two areas:

- i) population genetics, structure and evolution.
- ii) development of methods to associate genes with complex phenotypes. **Ref: BIP10.**

All scientists are expected to work and communicate effectively in a multi-disciplinary research environment and be able to adapt quickly to new developments. The above vacancies will be based at our impressive new science complex at New Frontiers Science Park, Harlow. This leading-edge facility represents a massive investment in the future of drug discovery and, in concentrating all our UK pharmaceutical discovery research at a single site, offers a superb working environment.

Salary and benefits reflect the influential and growing contribution we expect you to make to our future and benefits include bonus, pension and medical plans, share-matching scheme, profit-related pay, flexible working hours, subsidised restaurant and superb sports and social facilities.

If you believe that you could contribute to these exciting research areas, please send your full career details, quoting the appropriate reference on both the letter and envelope, to the UK Recruitment Manager, SmithKline Beecham Pharmaceuticals, New Frontiers Science Park (South), Third Avenue, Harlow, Essex CM19 5AW. Closing date: 20th March 1997. Initial interviews are scheduled for week commencing 7th April 1997.

It is part of our fundamental philosophy at SmithKline Beecham that we recruit, train, develop, reward and promote persons in all job areas solely on the basis of qualifications, skills, abilities and aptitudes. Decisions based on race, colour, age, religion, sexual orientation, disability, ethnicity or national origin are unacceptable to the Company.



SB
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POSITIONS OPEN

RESEARCH SUPPORT ADMINISTRATOR

Applications are invited for a research support **ADMINISTRATOR** position. Primary responsibilities are to identify sources of funding and help radiology faculty prepare grants in imaging-related research. Requirements include a scientific background, writing and editing skills, communication skills, and basic computer skills. Please send a cover letter stating your qualifications, a résumé and three letters of recommendation to: **Jeffrey J. Brown, M.D., Mallinckrodt Institute of Radiology, Washington University School of Medicine, 510 South Kingshighway Boulevard, St. Louis, MO 63110.**

Washington University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR RETROVIROLOGY

Research position is available to participate in ongoing research projects on simian immunodeficiency virus (SIV). Current projects focus on envelope and nef proteins of SIV to understand the basic mechanisms of immunodeficiency and neuropathogenesis of AIDS. Highly-motivated applicants having Ph.D. or B.S./M.S. degree with extensive experiences in virology, molecular biology, and/or immunology are encouraged to send a letter of interest, curriculum vitae, and three references to: **Toshiaki Kodama, Ph.D., Division of Pathobiology and Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006.** *Affirmative Action/Equal Employment Opportunity.*

SCIENTIST

A new company destined to be the leading provider of the next generation of protein analysis tools is seeking exceptional candidates to provide technical support and work in customer laboratories on joint research and development programs. This technology will enable "functional genomics at the protein level." The ideal candidate will have a recent Ph.D. in biochemistry or molecular biology, excellent interpersonal skills, good research skills, willingness to travel, and the desire to be an integral part of an exciting, fast-growing organization. West coast positions in Seattle, San Diego, and San Francisco are available with competitive salary and stock options. Send résumé to: **Maggie Thach, 490 San Antonio Road, 2nd Floor, Suite 201, Palo Alto, CA 94306.**

RESEARCH FELLOW with experience in neuroendocrine control of reproduction, gonadotropin radioimmunoassay, icv injections, immunocytochemistry of GnRH, NOS, excitatory amino acids and their receptors, PCR, DNA sequencing, Northern analysis, *in situ* hybridization, and NOS and cGMP assays. Ph.D. degree in endocrinology/zoology with two years of postdoctoral experience and with documented experience supported by research publications in the above areas is required. Salary \$26,666 per annum. Qualified applicants apply with résumé to: **Georgia Department of Labor, Job Order # GA 6065050, 601 Greene Street, Augusta, GA 30903-0160** or the nearest Department of Labor Field Service Office.

CELLULAR/MOLECULAR BIOLOGIST. Visiting Faculty, one year position. Ph.D. required with teaching experience preferred. Courses to be taught include introductory biology, non-majors' life science, and an upper division course in either microbiology or genetics. Westmont College is a Carnegie Level I liberal arts college stressing excellence in undergraduate teaching, scholarship, and commitment to the Christian faith. Candidates are expected to contribute to the character and mission of the College. Send letter, curriculum vitae, and the names of four references to: **Search Committee Chair, Department of Biology, Westmont College, Santa Barbara, CA 93108.** Review of applications will commence on 15 March 1997. *Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION available immediately for a recent Ph.D. interested in cloning and expression of *hem* genes. Two years of molecular biological experience required. Background in bacteriology, genetics, and hemebiochemistry preferred. Send résumé, publications, and certified transcripts. Three letters of recommendation should be sent directly to: **Dr. Debabrata Majumdar, Department of Biology, Norfolk State University, Norfolk, VA, 23504, USA.** Telephone: 757-683-2543; FAX: 757-683-8306; Email: dm@vger.nsu.edu.

POSITIONS OPEN

RESEARCH SCIENTIST

A staff position is available immediately to investigate molecular mechanisms of tumor cell growth regulation by polypeptide factors, with emphasis on signal transduction, cell cycle, and apoptosis. The candidate should have a Ph.D. in biochemistry/cell biology with two years of related experience. The salary is highly competitive.

POSTDOCTORAL FELLOW

An opening is available immediately to investigate the role of growth factors in chemotherapy-induced apoptosis in breast cancer cells. A Ph.D. in biochemistry/cell biology is required.

Send curriculum vitae and the names and addresses of three references to: **Rakesh Kumar, Ph.D., Cell Growth Regulation Section, Box 36, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030-4095.** *University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke-free environment.*

VISITING MINORITY SCIENTIST

The Department of Biological Sciences, University of Cincinnati, funded by the Howard Hughes Medical Institute, invites applications for a visiting minority **SCIENTIST** for up to one year. Minority faculty, faculty from predominantly minority institutions, or minority Ph.D.s still seeking a regular position are eligible to apply. This position offers opportunities to conduct research in a laboratory of interest in the department and participate in all professional activities including departmental courses. Send curriculum vitae, statement of interest, and names and telephone numbers of three references to: **Dr. Antony J. Mukkada, Head, Department of Biological Sciences, P.O. Box 210006, University of Cincinnati, Cincinnati, OH 45221-0006.** Telephone: 513-556-9700; Email: mukkada@ucbeh.san.uc.edu.

ACADEMIC OPHTHALMOLOGISTS/INSTRUCTORS

The University of Nebraska College of Medicine, Department of Ophthalmology, is seeking two full-time academic **OPHTHALMOLOGISTS** to serve as instructors for the period July 1, 1997 through June 30, 1998. A retina specialist and a glaucoma specialist are desired. A strong commitment to resident and medical student teaching, as well as an interest in research, are essential. Requirements include completion of a satisfactory residency program and prior teaching experience. Send curriculum vitae to: **Michael E. Yablonski, M.D., Ph.D., Professor and Chairman, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5540.** *Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

SCIENCE EXHIBIT DEVELOPER

The Museum of Science and Industry is recruiting a **DEVELOPER** to help produce a National Science Foundation-sponsored genetics exhibit. Responsibilities include project management, content research, evaluation, design development, and prototyping. Requirements include strong management skills; excellent communication abilities; and strong team player dexterity. A degree in biology, graphic design, or information design is desirable.

Send letter, curriculum vitae, and two-page description of exhibit interests to: **Barry Aprison, Ph.D., Director of Science & Research, Museum of Science & Industry, 57th Street & Lake Shore Drive, Chicago, IL 60637.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study *in vitro* formation of myelin membranes with cerebellar slice culture techniques in the laboratory of Dr. Cynthia Husted. Ph.D. and experience in tissue culture, myelin isolation, and membrane HPLC/GC lipid analysis required. Experience in confocal and electron microscopy desirable. The appointment will be for one year with possibility of reappointment. Send curriculum vitae and names of referees to: **Cynthia Husted, Ph.D., Neuroscience Research Institute, University of California, Santa Barbara, CA 93106.** Email: husted@mambo.lscf.ucsb.edu; FAX: 805-893-2005. Apply by March 21, 1997. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS available to study signal transduction by protein tyrosine kinases FAK and Pyk2. Current research includes 1) role of FAK in integrin signaling in cell migration and growth control, and 2) FAK and Pyk2 in cross-talk of intracellular signaling pathways in cell proliferation and differentiation. Recent Ph.D.s in cell and molecular biology or related fields are encouraged to apply. Experiences in signal transduction, growth control and cell adhesion are desired. Please send curriculum vitae and names of three references to: **Dr. Jun-Lin Guan, C4-177 VMC, Cornell University, Ithaca, NY 14853.** Email: jg19@cornell.edu.

POSTDOCTORAL RESEARCH POSITIONS

Two two-year postdoctoral positions to join NIH supported molecular pathogenesis studies on Shiga toxin mediated disease and thrombotic microangiopathy. This program is focused on toxin-cellular interactions and endothelial cell biology. Please send your curriculum vitae, a narrative letter describing your interests and training goals, and three letters of reference to: **Dr. G. Keusch, 750 Washington Street—New England Medical Center Box 041, Boston, MA 02111.** Initial inquiries via Email: grk@es.nemc.org or FAX: 617-636-5292 are encouraged. *Equal Opportunity/Affirmative Action Employer.*

Neuroscientist **RESEARCH ASSOCIATE** position to investigate regulation of the nitric oxide—guanylyl cyclase signaling pathway in relation to NO interactions with mechanisms of anesthesia and analgesia in the central nervous system. Quantitative autoradiography, molecular biology, neuropharmacology, and neurohistochemistry experience required. Please submit your curriculum vitae and three references to: **Roger A. Johns, M.D., P.O. Box 10010 University of Virginia Health Sciences Center, Charlottesville, VA 22906-0010 USA.** *The University of Virginia is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION to study the molecular genetics of muscle development in *Drosophila*. Studies involve differentiation of muscle precursors and myoblast fusion. Experience in molecular and cell biology is essential. Please send curriculum vitae and the names of three references to: **Dr. Susan M. Abmayr, Biochemistry and Molecular Biology, 459 North Frear Laboratory, The Pennsylvania State University, University Park, PA 16802.** Email: smal@psu.edu. *Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Research Associate in Insulin Signaling—**POSTDOCTORAL POSITION** for NIH-funded position in the Markey Center for Cell Signaling now available to study the regulation of kinase cascades (MAP kinase, p70 S6 kinase) by insulin and their cross-regulation and function. Both molecular biologic and biochemical projects open. Send résumé and references to: **Dr. T. W. Sturgill, HHMI Research Laboratory, University of Virginia, Box 577, Charlottesville, VA 22908 USA.** FAX: 804-924-9659. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately for NIH-funded studies on cell signaling and receptor-coupled regulation of gene expression in the nervous system. Position requires expertise in molecular biology techniques. A background in pharmacology or neuroscience will be preferred. Send curriculum vitae and names of three references to: **Dr. Ashiwei S. Undie, Neuroscience and Pharmacology Groups, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201.** FAX: 410-706-2973; Email: undieas@pharmsmtp.ab.umd.edu.

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for studies on eicosanoid biosynthesis enzymes. Training in biochemistry and/or molecular biology required; experience with recombinant protein expression and characterization helpful. Applicants should send curriculum vitae and names of three references to: **Dr. Richard Kulmacz, Hematology Division, Internal Medicine, University of Texas Houston Health Science Center, 6431 Fannin Street, Houston, TX 77030.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study cloned cardiac potassium channels (see *Cell* 81:299, 1995; *Nature* 384:80, 1996). Ph.D. in molecular biology preferred. Funding available for four years. Send curriculum vitae and names of three references to: **Michael Sanguinetti, Ph.D., Department of Medicine, University of Utah, Building 533, Room 4220, Salt Lake City, UT 84112.**

Astra Bioinformatics Centre



Astra is a pharmaceutical company in a phase of rapid growth. The company's operations, which are highly international, consist of research, production and marketing of pharmaceuticals through subsidiaries, agents and licensees all over the world. The number of employees is about 17 000 of whom 7 000 are in Sweden. Sales in 1995 amounted to SEK 36 billion and earnings totaled SEK 12,1 billion.

ASTRA BIOINFORMATICS CENTRE
Bioinformatics is a discipline that includes collection, organisation and processing of genomic, structural and functional information about biomacromolecules and their interaction with small molecules. Following the recent establishment of its Bioinformatics Centre, Astra is now seeking to expand this Corporate Competence Centre with four new positions to be based in Lund, Sweden.

Head of Genomics

(Ref nr 31/97)

Working closely with the Director of the Centre, you will play an important role in shaping the future direction of the Centre. In particular you will be responsible for the integration of genomic databases and technology into the existing bioinformatics strategy. You will be responsible for:

- ▲ evaluation and integration of new technologies
- ▲ liaison with collaborative groups
- ▲ strategic planning, and the design of an integrated bioinformatics environment

You have a Ph.D. and 3 or more years experience working with genomics as well as good understanding of the biopharmaceutical discovery process. You should have excellent interpersonal, management and communication skills.

Bioinformatics System Developer (2 positions)

(Ref nr 32/97)

You will be responsible for developing bioinformatics applications and interfaces and integrating diverse data from a wide variety of sources. This position requires a degree plus 3 years or more experience in a software development background coupled with an appreciation of life sciences. Experience in the following areas would be a distinct advantage:

- ▲ development of integrated bioinformatics tools on UNIX and Windows
- ▲ system development using C, C++, Java and/or CORBA
- ▲ HTML and related WWW technologies
- ▲ database administration and integration

Bioinformatics Support Scientist

(Ref nr 33/97)

You will be responsible for supporting the development and delivery of bioinformatics services to the Astra Group. You will help design and develop the Centre's Intranet services, training programmes and support infrastructure. Experience of the following would be a distinct advantage:

- ▲ bioinformatics, genomics or chemoinformatics
- ▲ HTML document and interface design
- ▲ development and presentation of training materials

You have excellent interpersonal and communication skills, a life sciences degree, and 3 or more years experience of working in a support environment.

For additional information, please contact Steve Gardner, +46 40 33 77 27, email: steve.gardner@draco.se or Hans Hultberg, +46 8 553 270 15.

Send your application marked xx/xx not later than April 1 to Astra Draco AB, Personnel Department, Kerstin Tollstam, Box 34, S-221 00 Lund, Sweden.



POSITIONS OPEN

POSTDOCTORAL POSITION

POSTDOCTORAL projects are available in two areas: the mechanism of mitosis in yeast and cell cycle-specific proteolysis. The experiments will involve molecular genetics and biochemistry in baker's yeast and biochemistry in frog egg extracts. See *J. Cell Biol.*, 130:1373-1385, 1995 and *Science*, 275:1311-1314, 1997. A Ph.D. and experience in molecular biology are required. Additional experience with biochemistry or genetics is desirable. Please send a curriculum vitae and the names of three references to: Dr. David Pellman, The Dana-Farber Cancer Institute, Harvard Medical School, 44 Binney Street, Boston, MA 02115. FAX: 617-632-2085; Email: davidpellman@dfci.harvard.edu.

POSTDOCTORAL POSITIONS

Two POSTDOCTORAL POSITIONS are available immediately to study genetic changes in human ovarian cancers. Candidates should have a recent Ph.D. degree with a strong background in molecular and cell biology. Experience in human genome research and transcriptional gene regulation is particularly desirable. Please send curriculum vitae, summary of research interests and experience, and three references to: Samuel C. Mok, Ph.D., Director, Laboratory of Gynecologic Oncology, Brigham and Women's Hospital, Harvard Medical School, RF-472, 221 Longwood Avenue, Boston, MA 02115. Telephone: 617-278-0196; FAX: 617-975-0818. An Equal Opportunity Employer.

DEPARTMENT OF NEUROSCIENCES UNIVERSITY OF CALIFORNIA, SAN DIEGO

A POSTDOCTORAL POSITION is available immediately to study cellular and molecular aspects of Alzheimer's disease. Highly interactive programs emphasize cellular and animal models of neurodegeneration. A strong background in cell and molecular biology is essential. Send curriculum vitae and three letters of recommendation to: Dr. Edward H. Koo, Department of Neurosciences-0691, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0691. Email: edkoo@ucsd.edu.

POSTDOCTORAL POSITION to study GTPase-activating proteins (GAPs) for heterotrimeric G proteins: identification of new GAPs, their mechanisms of action and cellular signaling functions. Candidates should be experienced in either protein purification or enzymology and have basic recombinant DNA skills. Send curriculum vitae, brief statement of interests, and names of two to three referees to: Elliott M. Ross, Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. Email: ross@utsw.swmed.edu. University of Texas Southwestern is an Equal Opportunity Institution.

Emory University: POSTDOCTORAL POSITION available immediately to study the mechanisms of repair of both oxo and anoxic DNA lesions generated by ionizing radiation. Projects involve protein purification and characterization, preparation of DNA substrates containing oxo and anoxic lesions, and kinetic analysis of repair enzymes. Send curriculum vitae and addresses of three references to: Dr. Yoke Wah Kow, Department of Radiation Oncology, Emory University, 145 Edgewood Avenue, SE, Atlanta, GA 30335-3801. Email: ykow@emory.edu. Emory University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study the role of inflammatory processes in the progression of Alzheimer's Disease using *in vitro* and *in vivo* model systems. Experience in transgene/knockout technology, molecular biology, and animal models is preferred. Candidates must be U.S. citizens or permanent residents. Send curriculum vitae, statement of research interests, and the names of three references to: Neil Cooper, M.D., The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITION

Investigation of osteoblast growth and differentiation. Experience in molecular biology required. Send curriculum vitae to: Postdoctoral Search, Dr. Darryl Quarles, Department of Medicine, Box 3036, Duke University Medical Center, Durham, NC 27710. Email: quarl001@mc.duke.edu. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP PATCH-CLAMP STUDIES OF HUMAN SODIUM CHANNEL DISORDERS

Transgenic mice mimicking hereditary human diseases produced by mutations in Na channel genes will be analyzed to determine pathomechanisms, precipitating factors, and possible therapeutic interventions. Prerequisite: previous patch-clamp channel experience. NIH payscale. One year, renewable, starting immediately. Provide a curriculum vitae, a brief summary of research interests, and three references to:

Robert L. Barchi, M.D., Ph.D.
Roland G. Kallen, M.D., Ph.D.
University of Pennsylvania School of Medicine
218 Stemmler Hall
Philadelphia, PA 19104-6074

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

POSTDOCTORAL TRAINING— IMMUNOLOGY AND VIROLOGY

The Yerkes Regional Primate Research Center of Emory University is seeking POSTDOCTORAL applicants interested in training in primate immunology, vaccinology, and the molecular pathogenesis of immunodeficiency virus infections. Candidates with outstanding backgrounds in molecular biology, immunology, or virology are encouraged to apply. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Harriet L. Robinson, Chief of Microbiology and Immunology, Yerkes Regional Primate Research Center, Emory University, Atlanta, GA 30322. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

GENETICS—YALE UNIVERSITY SCHOOL OF MEDICINE

Two POSTDOCTORAL POSITIONS available immediately in a research group studying mammalian meiotic molecular events associated with synapsis, recombination and cell cycle control. Experience in molecular biology (particularly DNA-protein interactions) and/or cell biology required. Please send curriculum vitae, summary of research experience (including copies of key publications), and names of three references to: Dr. Terry Ashley, Department of Genetics, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL POSITION UNIVERSITY OF IOWA

NIH-funded POSTDOCTORAL POSITIONS. Mucosal immunity or immunoparasitology (NIH-funded investigators). Topics include cytokine and receptor regulation at cellular and molecular level. Applicants should have Ph.D. or M.D. Send letter, curriculum vitae, and two references to: Joel V. Weinstock, M.D., Department of Medicine, University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242. Email: joel-weinstock@uiowa.edu. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH FELLOWSHIP at NIH. Position available immediately to study activated transcription using yeast minichromosomes as a model system. What role does chromatin structure play in transcriptional regulation? Experience in DNA-protein interactions would be an advantage. Applicants must have less than five years of postdoctoral experience. Please send curriculum vitae, three references, and a letter outlining research interests and career goals to: Dr. David Clark, Laboratory of Cellular and Developmental Biology, NIDDK, National Institutes of Health, Building 6 Room B1-12, 6 Center Drive MSC 2715, Bethesda, MD 20892-2715. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS will study the processes of invasion, nuclear import, retinoid signaling, and apoptosis in cancer prevention. Postdoctoral experience is favorable. Preferred proficiencies include: cell biological methods, molecular cloning, vector construction, transfection, immunocytochemistry, protein purification, defining protein function, etc. Send curriculum vitae and reference letters to: Drs. Scott Lippman and Reuben Lotan, c/o David Menter in The Department of Clinical Cancer Prevention, Box 236, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe, Houston, TX 77030. Email: dmenter@carbon.concom.com. Equal Opportunity Employer and smoke-free environment.

POSITIONS OPEN

An NIH-supported POSTDOCTORAL RESEARCH TRAINING POSITION is available immediately. Qualified applicants can choose from several NIH-supported projects involving regulation of bile acid transport genes (*JCI* 95:745, 1995; *JBC* 271:15211, 1996); and positional cloning of hereditary liver disease genes (*Genomics* 36:70, 1996). U.S. citizenship or permanent residency required. Experience with basic techniques of molecular biology preferred. Send a curriculum vitae and names of three U.S. references to: Dr. Susan Moyer, Chief, Division of Pediatric Gastroenterology/Hepatology in the Department of Pediatrics at Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520. Telephone: 203-785-4649; FAX: 203-785-7194.

Yale University is an Affirmative Action/Equal Opportunity Employer.

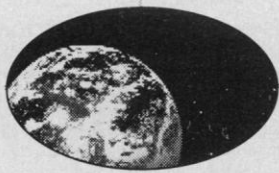
POSTDOCTORAL POSITIONS available in breast cancer molecular therapeutics: i) targeting growth factor receptors at the genomic level, ii) studying DNA-liposome interactions for development of non-viral gene therapy vectors, and iii) designing novel targeted liposomal pharmaceuticals. Desirable qualifications: i) experience in cellular and molecular biology, ii) same, with interest in small animal preclinical therapeutics and iii) membrane biophysics with practical knowledge of organic chemistry and drug delivery. Send curriculum vitae and names of three references to: Dr. Demetrios Papahadjopoulos, Department of Cellular and Molecular Pharmacology and Dr. Christopher Benz, Division of Hematology/Oncology, School of Medicine, University of California, San Francisco, CA 94143-0450. FAX: 415-476-5292.

Two POSTDOCTORAL POSITIONS are available for highly motivated Ph.D.s to work on the replication of plasmid pT181 and human papillomaviruses. Studies include biochemical analyses of the replication initiation proteins and their interaction with origins of replication. Background in molecular biology and/or biochemistry and experience in techniques such as protein overexpression in bacteria and insect cells, footprinting and tissue culture is desirable. Send curriculum vitae and names of three references to: Dr. Saleem Khan, Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Room E1240 BSTWR, Pittsburgh, PA 15261. FAX: 412-624-1401; Email: khan@med.pitt.edu.

POSTDOCTORAL POSITION is available immediately to study the effects of pulmonary surfactant on the regulation of macrophage gene expression in the lung, particularly with respect to cytokines and adhesion molecules. Candidates sought with immunological and molecular biological expertise to explore mechanisms responsible for these actions. Send curriculum vitae and three references to: David S. Phelps, Ph.D., Department of Pediatrics, Pennsylvania State University College of Medicine, P.O. Box 850, Hershey, PA 17033. Email: dsp4@psu.edu. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minority groups are encouraged to apply.

POSTDOCTORAL POSITION to study bone growth regulation in microgravity. Must have three years research experience. Studies of microgravity mediated gene expression include rtPCR analysis, confocal fluorescence and ELISA analysis of shuttle flown cells. Applicant must have research experience and ability to write grants and manuscripts. Salary range \$22-32K. Send curriculum vitae, copy of unofficial transcripts, statement of research interests, and three letters of recommendation to: Prof. M. Hughes-Fulford, UCSF and VA Medical Center, 4150 Clement Street, San Francisco, CA 94941. Lab Site: www.spacedu.com; Email: hughes-fulford.millie@sanfrancisco.va.gov; FAX: 415-476-1267.

POSTDOCTORAL POSITION available immediately to study brain-derived lipids with fluorescence microscopy of Langmuir monolayers in the laboratory of Dr. Cynthia Husted, Ph.D. and experience in Langmuir-Blodgett techniques and fluorescence microscopy of monolayers required. The appointment will be for one year with possibility of reappointment. Send curriculum vitae and names of referees to: Cynthia Husted, Ph.D., Neuroscience Research Institute, University of California, Santa Barbara, CA 93106. Email: husted@mambo.lscf.ucsb.edu; FAX: 805-893-2005. Apply by March 21, 1997. An Equal Opportunity/Affirmative Action Employer.



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As a subsidiary of the Fortune 100 Monsanto Company, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. And our professionals are playing a key role in their ongoing product development and support, and in our future.

Plant Transformation Specialists

Our Monocot Transformation Program has several openings for all levels of professionals—From B.S. to M.S. to Ph.D.—with several years of plant transformation experience. Cereal crop experience is preferred. A background in efficient management of large-scale production efforts is a plus. Exceptional communication skills are essential. **Job Code: PTS**

Post-doctoral Positions in Cereal Transformation

While working in a team-based research atmosphere, you will develop improved transformation methods for corn and wheat. A recent Ph.D. along with experience in DNA delivery methods and plant tissue culture or plant developmental biology are required. **Job Code: CT**

Post-doctoral Position in Plant Physiology

You will be involved in potato physiology while working in a team-based atmosphere. We require a Ph.D. and experience in growth physiology, plant development or seed physiology. Working experience with potato tissue culture, water relations, plant nutrient requirements, growth regulators or isotope labeling is helpful. **Job Code: PP**

Interested candidates should send a resume including contact information for at least three references to: **Ceregen - A Unit of Monsanto Company, Job Code: (please select), Attn: B. Rhodes, Mail Zone GG3K, 700 Chesterfield Parkway North, St. Louis, MO 63198. FAX: (314) 537-6567. E-mail: bdrhod@monsanto.com EEO/AA Employer M/F/D/V.**



CEREGEN
INGENUITY IN AGRICULTURE

POSTDOCTORAL FELLOWSHIPS

IN THE DEPARTMENT OF CLINICAL AND SCIENTIFIC AFFAIRS

The Department of Clinical and Scientific Affairs (CSA), Pfizer Central Research, New York City announces its annual competition for a Postdoctoral Fellowship in New Drug Development and the start of a new Postdoctoral Fellowship Program in the Drug Regulatory Submissions Group.

The Department of Clinical and Scientific Affairs offers a broad range of activities. It is responsible for designing and conducting clinical development programs for Pfizer-discovered compounds, as well as investigating and developing new claims and indications for marketed compounds. CSA also designs and conducts clinical development programs for new formulations and dosage forms of existing products in the following areas: allergy, central nervous system, gastroenterology, microbiology/infectious disease, oncology, pharmacology and urology.

The Postdoctoral Fellows will become members of project teams as clinicians or representatives of the Regulatory Submissions Group. Both candidates will gain experience in the design and implementation of clinical research programs. While no non-clinical or clinical studies are actually conducted at Pfizer in New York, the Clinician will interact with specialists in the chosen field to have studies performed at contract laboratories, universities and with individual investigators. Regulatory Submissions Fellows will support the team by preparing clinical reports and regulatory submissions such as INDs, NDAs and safety updates. Experience also will be acquired in FDA regulations and report and submission format and content by interacting with personnel in Regulatory Submissions, Regulatory Liaison and members of multidisciplinary global project teams and the FDA.

Two fellowships will be available this year. Candidates should possess a doctoral degree (MD, PhD or PharmD), have no more than one year of non-industry postdoctoral experience and be authorized to engage in employment in the US. Prior experience with clinical trials, regulatory affairs or the drug development process is desirable, but not a prerequisite. Candidates also must have excellent written, verbal and interpersonal skills. The deadline for applications is June 2, 1997.

For further information, contact: **Postdoctoral Fellowship in New Drug Development, Department of Clinical and Scientific Affairs, Pfizer Central Research, 235 East 42nd Street, 13th Floor, Stop #2, New York, NY 10017-5755; Attn: Michael Delicio, Sr. Manager, Employee Resources.** Pfizer is an equal opportunity employer.



Howard Hughes Medical Institute

PROGRAM ANALYSTS

The Howard Hughes Medical Institute conducts scientific research in leading academic medical centers and awards grants and fellowships for science education. Currently, we are seeking **Program Analysts** to assist in the development and implementation of the following programs:

Graduate Science Education Office of Grants and Special Programs

Responsibilities include managing annual competitions for the medical student research fellowships, notifying awardees, and coordinating payments; developing program home page and publication information; and reviewing annual financial and progress reports from fellowship institutions and fellows. Other duties involve assisting in the design and implementation of program databases and projects, organizing the annual meeting of fellows, and responding to program inquiries. Prefer candidates with laboratory research experience in a university or medical school environment.

Precollege & Public Science Education Office of Grants and Special Programs

Responsibilities include processing applications, reviewing eligibility, recruiting review panel members, assigning applications for review, and coordinating awards processes. Other duties involve assisting in the design and implementation of program databases and assessment projects; reviewing annual financial and program reports from grantee institutions; developing program home page and publication information; organizing the annual meeting of Program Directors; conducting program activity research; and responding to program inquiries.

Both positions require a Ph.D. in biological science (e.g. cell or molecular biology) and at least 2 years work experience, preferably in an area of research administration or grants management. For Precollege & Public Science Education position, experience may also be in science education. Candidates should possess strong management, organizational, communication, and information gathering skills. Strong computer skills (Microsoft Office and Internet) are also necessary.

HHMI offers a competitive salary and excellent benefits package. Please forward your resume, indicating position desired and salary requirements, to: **HHMI, Attn: Human Resources, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789. EOF.**

<http://www.hhmi.org>



POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN BIOINFORMATICS AND MOLECULAR PHARMACOLOGY—NATIONAL CANCER INSTITUTE

The group's research is 50% experimental (genomics, proteomics, pharmacology), 50% theoretical (data mining, statistics, pattern recognition, artificial intelligence) (see Weinstein *et al.*, *Science* 275:343-9, 1997). The aims are to generate and analyze large databases on the structures, activity profiles, and molecular targets of compounds tested in the NCI's drug discovery program. Bioinformatics fellowships are available for candidates with 1) background in cancer biology and/or therapeutics but also with computer, mathematical, and/or statistical skills; 2) background in computers, statistics, and/or artificial intelligence. Also available is a Fellowship for experimental studies using DNA, mRNA, and protein fingerprinting in the context of molecular pharmacology. Fellowships available April 1997. Preference given to candidates with less than five years of postdoctoral experience. Send curriculum vitae and telephone numbers of references to: John N. Weinstein, M.D., Ph.D., Building 37 Room 5C-25, NIH, Bethesda, MD 20892. FAX: 301-402-0752; Email: weinstein@ntpax2.ncicrf.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS NUCLEAR HORMONE RECEPTORS

POSTDOCTORAL POSITIONS are available in a new laboratory in the Molecular and Cellular Endocrinology Branch of NIDDK at the NIH. Our laboratory will be studying transcriptional regulation by thyroid hormone and steroid hormone receptors. We will focus on identifying and studying human receptor mutations; identifying and characterizing nuclear co-repressors and co-activators; and studying dominant negative activity by mutant nuclear hormone receptors in transgenic mice. Background in molecular biology required. Previous experience with transgenic mice, yeast, or physiological studies would be helpful. Positions available August 1, 1997. Applicants must have a Ph.D. and/or M.D. as well as up to five years postdoctoral experience. Please send curriculum vitae and three references to: Paul M. Yen, M.D., c/o Mrs. Margaret Hawker, NIDDK/NIH, 10 Center Drive-MSB 1818, Building 10-9N222, Bethesda, MD 20892-1818; Telephone: 617-732-5858; FAX: 617-732-5123; Email: yen@rascal.med.harvard.edu.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available at Washington University School of Medicine. Research interests are:

Dr. Jane Wu: mechanisms of pre-mRNA splicing and alternative splicing regulation (*Cell* 75:1061-1070; *Mol. Cell Biol.* 16:5400-5408) and molecular studies of Alzheimer's disease. (Curriculum vitae and reference letters should be sent to: Jane Wu, Department of Pediatrics and Department of Molecular Biology and Pharmacology, Box 8116, Washington University School of Medicine, One Children's Place, St. Louis, MO 63110, USA. Email: wu.j@al.kids.wustl.edu).

Dr. Yi Rao: molecular signaling in vertebrate embryonic development (*Science* 273:355-358) and molecular and cellular mechanisms of vertebrate eye formation (*Development* 124:603-615). (Curriculum vitae and reference letters should be sent to: Yi Rao, Department of Anatomy and Neurobiology, Washington University School of Medicine, Box 8108, 660 South Euclid Avenue, St. Louis, MO 63110, USA. Email: raoyi@thalamus.wustl.edu).

POSTDOCTORAL POSITION UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

A POSTDOCTORAL POSITION is available immediately to investigate the mechanism of human telomerase and the development of telomerase inhibitors. Successful applicant will have the opportunity to use a wide range of techniques in a stimulating environment.

Please send curriculum vitae, a brief statement of relevant research interests, and three letters of reference to:

Dr. David Corey
University of Texas Southwestern Medical Center
5323 Harry Hines Boulevard
Dallas, TX 75235-9050
Email: corey@howie.swmed.edu

Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL (Ph.D. or M.D. obtained during the last five years)

research position available immediately in a major ongoing laboratory effort by the H.M. Bligh Cancer Research Department in molecular biology and biochemistry at the Chicago Medical School

Initiative of carcinoma and cell adhesion, proliferation, invasion, and metastasis with stress on molecular and cellular mechanisms involving glycoproteins (T and Tn antigens and their glycosyltransferases). The Department is young and has a considerable amount of modern research space. Position is for a self-motivated individual with research experience and peer-reviewed publications. Experience with rodent models desirable. The successful applicant will join an interactive group of outstanding researchers with clinical experience and basic endeavors in cellular immunology, carbohydrate biochemistry, and immunohistochemistry as applied to clinical pathophysiology of cancer. Preference will be given to an applicant with expertise in molecular biology and biochemistry. Supply curriculum vitae, bibliography, and the names and addresses of four references. Excellent salary, advancement, commensurate with qualifications, and benefit package.

Send all materials to: Professor Georg F. Springer, M.D., D.h.c., Head, Heather M. Bligh Cancer Research Laboratories, 3333 Green Bay Road, North Chicago, IL 60064, USA. FAX: 847-578-3432. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITIONS are available to study the biological functions of thrombin and other proteases. A new genetically engineered mouse model of prothrombin deficiency will be exploited to investigate the role of thrombin-dependent processes in development, vascular biology, and hemostasis. Recent Ph.D. or M.D. graduates with experience in protein biochemistry, molecular biology, or mouse genetics are preferred.

Send curriculum vitae, a brief summary of research experience, and names of three references to:

J. Evan Sadler, M.D., Ph.D.
Department of Medicine
Washington University School of Medicine
660 Euclid Avenue, Box 8022
St. Louis, MO 63110
Email: esadler@imgate.wustl.edu

Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

A POSTDOCTORAL and/or RESEARCH ASSOCIATE POSITION is available in the Department of Medicine, University of Pittsburgh, to join a group of investigators studying metabolic regulation and gene expression of certain enzymes and membrane transporters in tissues and isolated cells of man and experimental animals. Candidates must have training in molecular biology. Send curriculum vitae and names of three references to:

Siamak A. Adibi, M.D., Ph.D.
University of Pittsburgh Medical Center
Montefiore University Hospital
200 Lothrop Street
Pittsburgh, PA 15213-2582
Telephone: 412-648-6365
FAX: 412-648-6399

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

IMMUNOLOGY—POSTDOCTORAL POSITION

Corixa Corporation is a biotechnology company dedicated to the development of T cell vaccines and therapies for cancer and infectious diseases. Corixa is seeking Ph.D. scientists for a POSTDOCTORAL POSITION in immunology. Candidates should have a Ph.D. with a background in immunology and/or vaccine development. Emphasis is on the use of recombinant DNA technology to modify human APC functions, elicit CTL, and identify novel antigen targets in the setting of oncology and infectious disease. Competitive salary and benefits. Please send curriculum vitae, statement of research interests, and names of three references to: Corixa Corporation, Attention: HR310, 1124 Columbia, Suite 464, Seattle, WA 98104. FAX: 206-667-5715. An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN MOLECULAR TOXICOLOGY

Two POSTDOCTORAL POSITIONS are available in Molecular Toxicology at the W. Alton Jones Cell Science Center. The research program focuses on genes involved in molecular mechanisms of cytoprotection and cell death (apoptosis and necrosis) during chemical damage to epithelia. The Center is a state-of-the-art facility for cellular/molecular work and is an excellent environment for career enhancement. We seek individuals with a keen interest in basic research, a Ph.D., or equivalent degree and experience in molecular/cell biology and/or toxicology. The first position involves differential cloning of genes induced by chemical damage in the renal epithelium. Experience with PCR and molecular cloning is desirable. The second position involves the role of cell signaling and stress response genes in protection from chemical damage in cells expressing normal and mutant proteins. Knowledge of biochemistry, cell biology and basic molecular techniques; i.e., plasmid construction and subcloning, is highly desirable. Both projects are funded. For information, please send a curriculum vitae, names of three references, and a letter describing experience and career goals to: James L. Stevens, Ph.D., c/o Personnel Office, W. Alton Jones Cell Science Center, 10 Old Barn Road, Lake Placid, NY 12946. The Center is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWS DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

Temple University School of Medicine has immediate positions available for two and three year FELLOWSHIPS to study, I) molecular genetics of cancer susceptibility genes and II) molecular epidemiology of carcinogenic pathways. Candidates must have strong background in molecular biology and biochemistry. The latter position requires experience in epidemiological studies. Knowledge of HPLC a plus. Laboratory is affiliated with the Fels Institute for Cancer Research and Molecular Biology. Highly competitive salaries. Contact: Philip Lazarus, Ph.D., Department of Pathology and Laboratory Medicine, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-2781. Email: plazarus@vm.temple.edu. Temple University is an Affirmative Action/Equal Employment Opportunity Employer and strongly encourages applications from women and minorities.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available to study function, pharmacology, and regulation of voltage-gated ion channels in the cardiovascular system. Electrophysiologic techniques, immunoprecipitation, molecular biology methods including mutagenesis, Western analysis, and immunohistochemistry are among the methods used to study molecular mechanisms of effect. Candidates with prior experience in patch clamp electrophysiology and/or molecular biology are preferred. Send curriculum vitae, brief description of research interests, and names, telephone numbers, and Email addresses of three references to: Dr. Katherine Murray, Department of Pharmacology, Room 559 MRBII, Vanderbilt University School of Medicine, Nashville, TN 37232-6602.

POSTDOCTORAL POSITIONS to study the cell biology of lipoprotein cholesterol ester uptake into cells via the selective uptake pathway using gene knockout and transgenic mice and cell culture models. Studies are focused on the roles of HDL apoA-I (*J. Clin. Invest.* 97: 2660, 1996) and scavenger receptor-B1 (*J. Biol. Chem.* 271:33545, 1996). Experience in lipoprotein biochemistry, lipid chemistry/biochemistry, or cell surface receptors preferred. Send curriculum vitae and names of three references to: David Williams, Department of Pharmacology, SUNY Stony Brook, Stony Brook, NY 11794-8651. Email: dave@pharm.som.sunysb.edu. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Employer and Employer.

Senior POSTDOCTORAL POSITION available immediately for HIV drug discovery project. Candidate should have documented experience with HIV culture techniques, PCR, immunoblotting and molecular cloning. Permanent residency or U.S. citizenship is required. Send curriculum vitae to: Beatrice H. Hahn, M.D., University of Alabama at Birmingham, 701 South 19th Street, 613 LHRB, Birmingham, AL 35294. Equal Opportunity/Affirmative Action Employer.

**NATIONAL INSTITUTES OF
HEALTH
NATIONAL INSTITUTE ON
ALCOHOL ABUSE AND
ALCOHOLISM**

**Biochemistry and Biophysics of
Signal Transduction
Burton J. Litman, Ph.D.**

The mechanism whereby ethanol, general anesthetics, and membrane phospholipid composition affect membrane associated signal transduction is being studied by use of spectroscopic techniques, which probe membrane structure and protein conformation, and measurements of enzyme function. G protein-coupled receptor systems are emphasized and the visual transduction pathway is used as a model system. Training in membrane biochemistry/biophysics desired. Candidates must have less than five years of postdoctoral training and should provide three letters of reference, a curriculum vitae, bibliography, and statement of research interests. Send to **Burton Litman, Laboratory of Membrane Biochemistry and Biophysics, NIAAA, NIH, 12501 Washington Avenue, Rockville, MD 20852. The NIH is an Equal Opportunity Employer.**

SCIENTIST - ANTIVIRAL STUDIES

Virologist is sought with innovative research and technical skills to develop antiviral screening methods for the identification of therapeutic compounds for viruses including: HSV, CMV, RS virus, adenovirus, and influenza virus. This individual should have a diverse virology background in the study of viral replication, viral maturation, and viral assembly and will assist in antiviral technologies that can be developed in-house or licensed from outside sources. This is a key position to be involved in the development of viral therapeutic and diagnostic products, and to grow and lead a small team of scientific individuals in this area. Minimum requirements include a Ph.D. in a related field, 3-5 years postdoctoral experience. Industrial experience is a plus. Good oral presentation skills and effective managerial experience is desired, with an ability to work multiple tasks and projects simultaneously. The successful candidate must be a team player who can work with a multi-disciplined group of scientists, and whose work is respected in the virology community, with an ability to bring contacts and collaborators in these areas of study.

SCIENTIST - PROTEIN BIOCHEMISTRY

Protein Biochemist is sought with innovative research and technical skills to assist a multi-disciplined team in the development of point-of-care viral diagnostics and therapeutics. A broad research and industrial background in the areas of monoclonal antibody and protein purification, immunoassays, enzyme assays, formatting and protein structure-function is desired. Molecular biology experience and molecular modeling experience is a plus. This is a key position to be involved in the research and development of viral diagnostic and therapeutic products, and grow and lead a small team of scientific individuals in this area. Minimum requirements include a Ph.D. in Biochemistry or related fields with 5 years experience in this area. Excellent written and presentations skills are essential along with previous supervisory experience.

SCIENTIST - SYNTHETIC ORGANIC CHEMISTRY

Organic Chemist is sought to support the synthetic development of novel carbohydrate molecules for use in diagnostic and therapeutic products. This individual will develop improved synthetic schemes, assist in the identification and development of new products to detect and treat viral diseases, they must be creative and have the ability to solve problems and work with a multi-disciplined team.

Minimum requirements include a Ph.D. in Organic Chemistry with 3 years post doctoral experience working in the area of carbohydrate or sialic acid chemistry. Industrial and molecular modeling experience is a plus. This is an opportunity for an innovative researcher to be a key part of a scientific team.

ZymeTx is a young, dynamic and growing biotechnology company focusing on research and development that leads to novel technologies for viral diagnostics and therapeutics. We are located near downtown Oklahoma City in the new research park adjacent to the Health Science Complex. Qualified applicants should submit a letter of introduction, a curriculum vitae with 3 references, and a salary history to:



ZymeTx, Inc.

**ZymeTx, Inc.
800 Research Parkway, Suite 100
Oklahoma City, OK 73104
Attn: VP of Research**

GLOBAL CAREER OPPORTUNITIES

**THE QUEEN'S UNIVERSITY OF BELFAST
Fixed Term Lectureship in
Molecular Oncology (Non-Clinical)
SCHOOL OF CLINICAL MEDICINE**

Applications are invited for this newly created post initially for three years from 1 March 1997 or such other date as may be agreed, to initiate research, provide research support and leadership in Molecular Oncology within the Division of Molecular Medicine within the School and the Belfast City Hospital Trust. Areas of particular interest will include ovarian, breast, and gastrointestinal cancers. The successful applicant will be expected to focus on gene regulation, function, and expression in these cancer groups. Applicants must have an honours degree, or equivalent, in a relevant science subject and a Ph.D., or equivalent, in a relevant subject area together with proven excellence in research as evidenced by publications in prestigious journals and successful grant applications. Experience in laboratory management and supervision and experience of teaching oncology would be desirable.

Informal enquiries may be made to **Dr. R. J. Atkinson, Department of Oncology, University Floor, Belfast City Hospital, Belfast, BT9 7AB Northern Ireland, telephone (01232) 329241 extension 2264.**

Salary scale Lecturer Grade A: £15,154 - £19,848 per annum or Lecturer Grade B: £20,679 - £26,430 per annum, with eligibility for USS.

Applicants, quoting Ref. 97/PO12, may obtain further particulars from the **Personnel Office, The Queen's University of Belfast, BT7 1NN Northern Ireland, telephone (01232) 273246/273044 or FAX (01232) 324944.**

Closing date: 30 March 1997

Committed to an Equal Opportunities policy and selection on merit, the University welcomes applications from all sections of the community. Under its affirmative action programme, it particularly welcomes applications from women for academic posts.

**nature
Structural
biology**

is seeking an

ASSISTANT EDITOR

to join its editorial staff, which is relocating in the spring to New York City.

This is a superb opportunity to enter the world of scientific publishing while staying at the forefront of research in all aspects of structural biology. The successful candidate will participate in every aspect of the editorial process, including manuscript selection, copy editing and writing for the journal. We are seeking a talented scientist with a PhD in structural biology, biochemistry or molecular biology, excellent literary skills and broad interests in biological research and the communication of science. Internet experience would be a plus.

Please e-mail or fax a CV (with the names of three references), a cover letter detailing your qualifications and a 1,000 word News and Views article on a recent important scientific advance, no later than March 24, to:

**The Editor, Nature Structural Biology
545 National Press Building
Washington DC 20045, USA
(Phone: 202-626-2534;
fax: 202-626-0970;
email: nsb@naturedc.com)**



Inex Pharmaceuticals Corp. is a Canadian-based company that is leading the development and commercialization of targeted intracellular drug delivery systems for "in vivo" treatment of human disease. This includes the intracellular delivery of antisense oligonucleotides and DNA vectors. We are seeking highly-motivated technical staff at all levels, preferably with industrial experience.

Director, Antisense

Inex seeks an accomplished technical leader with extensive experience in the development of Antisense products to manage the Company's expanding program and drive it toward successful completion of Company goals.

The successful candidate will have a Ph.D. with 8 years directly related industrial experience and a minimum of 3 years antisense product development project management experience. Extensive knowledge of regulatory, manufacturing and clinical requirements for new drug formulations and delivery systems is also required. Excellent written and oral communications skills are a must.

Please forward your resume in strictest of confidence to: **Human Resources, Inex Pharmaceuticals Corporation, 1779 West 75th Avenue, Vancouver, B.C. Canada V6P 6P2 or FAX : 604-264-9690**

Tenure-Track Faculty Position In Immunology at Fox Chase Cancer Center



The Immunology Working group at Fox Chase Cancer Center invites applications from innovative individuals for a tenure-track position in basic immunology. Current research programs are focused on molecular aspects of lymphoid development including control of V(D)J recombination, receptor-mediated signal transduction, control of receptor assembly and expression, generation of functional subsets of T and B cells, memory lymphocyte formation, and development of autoimmunity. The successful candidate is expected to develop a vigorous research program and develop strong interactions with existing programs. Fox Chase provides generous start-up funding.

Core facilities are available for flow cytometry, production of transgenic and knockout mice, generation of hybridomas, DNA sequencing, DNA and peptide synthesis. Our fully accredited animal facility has a longstanding history of maintaining immunodeficient mouse strains at reasonable cost to the investigator. Members of the Immunology Working Group have access to several NIH training grants for support of postdoctoral students.

Interested investigators should send their curriculum vitae, bibliography, a statement of research interests and names of three references to: Search Committee, c/o Dr. A.M. Skalka, Fox Chase Cancer Center, Institute for Cancer Research, 7701 Burholme Avenue, Philadelphia, PA, 19111.

BIOPHARMACEUTICAL MANUFACTURING

SAIC Frederick, a division of Science Applications International Corporation, has challenging opportunities for individuals experienced in microbial fermentation and recovery process development to join our Consolidated Fermentation Service (CFS) at the NCI's Frederick Cancer Research & Development Center in Frederick, MD. The CFS, in conjunction with the Monoclonal Antibody/Recombinant Protein Production Program, will provide complete biological manufacturing capability from bulk biological product to purified protein and, finally, filled container.

- Biochemical Engineer: PhD in chemical/biochemical engineering with working knowledge of cGMP, aseptic processes, process development, scaleup fermentation and recovery processes for the production of biopharmaceuticals.
- Biopharmaceutical Manufacturing Supervisor: BS/MS in microbiology with 4-6 years in biopharmaceutical process operations, including FDA/cGMP standards; cGMP certification.
- Biopharmaceutical Manufacturing Specialist: BS/MS in microbiology with 2-5 years' related experience; cGMP certification.
- QC Supervisor: BS/MS with 4-6 years' related experience dealing with bulk pharmaceutical chemicals, sterile injectables or licensed biological products.

SAIC Frederick offers a competitive salary and an attractive benefits program, including insurances, 401(k) savings program, stock purchase plan and more. Forward CV/resume, references and salary requirements to: SAIC Frederick, ATTN: Barbara J. Norton-Gill, Technical Recruiter, NCI-FCRDC, PO Box B, Frederick, MD 21702; e-mail: hr@mail.ncicrf.gov

"We value cultural diversity in the workplace."



SAIC Frederick
A Division of Science Applications
International Corporation

EOE

M/F

Incyte Pharmaceuticals, Inc., is a leader in the design, development and marketing of genomic database products, software tools and related services. Our database products integrate bioinformatics software with both proprietary and publicly available genetic information to create information-based tools used by pharmaceutical and biotechnology companies in drug discovery and development.

POSTDOCTORAL FELLOWS

You will develop strategies and work on methods to achieve genome closure. Requires a PhD in Molecular Biology or related field with a strong emphasis on cloning, sequencing and PCR technologies. Extensive experience with bioinformatics tools is desirable.

If you recognize these qualities in yourself, we want to hear from you. Incyte offers competitive salaries, an outstanding benefits package and significant opportunities for professional growth. Mail/Fax your resume to Incyte Pharmaceuticals, Attn.: HR/REF:PDOCS; 3174 Porter Drive; Palo Alto, CA; 94304. FAX: 415/855-0572, e-mail: employ@incyte.com. EOE. website: www.incyte.com



INCYTE
PHARMACEUTICALS, INC.

UNIVERSITY OF CALIFORNIA, DAVIS SCHOOL OF MEDICINE

Two Tenure-Track Faculty Positions in Musculoskeletal Cell/Molecular Biology and Tissue Regeneration and Repair

The University of California, Davis, School of Medicine is establishing a Center for Tissue Regeneration and Repair under the leadership of Dr. A.H. Reddi. We invite applications for two tenure-track Assistant Professorships with major interests in: 1) signal transduction of BMP superfamily receptors and identification of downstream substrates by yeast two-hybrid systems, and 2) transgenic approaches including homologous recombination and cre/lox systems. Expertise in cell cycle control and cyclins and/or transcription factors is also of interest. Must have a Ph.D. and/or M.D. with postdoctoral experience. Must participate in graduate student teaching and fellowship training. Joint appointments will be considered with basic science departments in the School of Medicine. We hope to fill both positions by early Fall, 1997.

Staff Research Associate positions and postdoctoral fellowships are also available.

The Davis/Sacramento area is adjacent to the Sierra Nevada Mountains, Napa Valley, and the Northern California Coast. The environment is conducive for contemplation of research ideas and execution of research dreams.

Send letter of interest, a curriculum vitae, a two-page statement of research goals, and names and addresses of five references to: Michael W. Chapman, M.D., Chair, Department of Orthopaedic Surgery, Research Facility 1, Room 2000, 4635 Second Avenue, Sacramento, CA 95817.

Both faculty positions are open until filled; to assure full consideration, applications must be received no later than **July 31, 1997**. The University of California is an Affirmative Action/Equal Opportunity employer.

EVERGLADES RESEARCH POSITIONS



The Southeast Environmental Research Program
at
FLORIDA INTERNATIONAL UNIVERSITY
Announces 10 Research Positions To Be Filled Immediately



A long-term research project has been initiated in the freshwater marshes of Everglades National Park and the Loxahatchee National Wildlife Refuge, FL. This multi-disciplinary study will provide critical baseline information needed to establish water quality standards for Everglades wetlands. The experimental design involves four flumes, each with four 100 m channels. The experimental treatment is the continuous addition of

3 levels of phosphorus to 3 of 4 channels in each flume. Virtually every component of the ecosystem will be measured for response to this low-level nutrient enrichment. The Southeast Environmental Research Program at FIU is currently seeking applicants to immediately fill the following positions on this project. Instructions for application submittal are below or may be found on the SERP web page (<http://www.fiu.edu/~serp>).

I. Assistant Research Scientists. These are non-tenure earning 4 year positions that require a Ph.D.; post-doctoral experience is encouraged; salary and possibility of extending the duration of the position will be commensurate with experience.

1. *Phycologist/Periphytologist* — contact Ron Jones (305-348-3095, serp@fiu.edu), Dan Childers (305-348-3101, childers@fiu.edu) or Joel Trexler (305-348-1966, trexlerj@fiu.edu) for more details.
2. *Wetlands Biogeochemist* — contact Ron Jones (305-348-3095, serp@fiu.edu) for more details.

II. Post-Doctoral Research Associates. These are non-tenure earning 2 year positions that require a Ph.D.; salary and possibility of extending the duration of the position will be commensurate with experience.

1. *Ecosystem Ecologist/Modeller* — contact Dan Childers (305-348-3101, childers@fiu.edu) for more details.
2. *Aquatic Invertebrate Ecologist* — contact Joel Trexler (305-348-1966, trexlerj@fiu.edu) for more details.
3. *Wetlands Plant Ecologist* — contact David Lee (305-348-3111, leed@fiu.edu) for more details.
4. *Wetland Soils Scientist* — contact Ron Jones (305-348-3095, serp@fiu.edu) for more details.

III. Research Assistants/Technicians. These are 4 year positions with variable requirements; salary and possibility of extending the duration of the position will be commensurate with experience.

1. *Data Manager and Spatial Analyst* — contact Dan Childers (305-348-3101, childers@fiu.edu) for more details.
2. *Field Sampling & Nutrient Analysis Technician (TWO NEEDED)* — contact Ron Jones (305-348-3095, serp@fiu.edu) for more details.
3. *Wetland Soils Technician* — contact Jay Jayachandran (305-348-3095, jayachan@fiu.edu) for more details.

Applicants should send 1) a brief Statement of Research Interests (for Assistant Research Scientist and Post-Doctoral positions) or a brief Statement of Pertinent Past Experience (for Technician positions), 2) a Curriculum Vitae, 3) copies of relevant publications, and 4) a list of 3 references to: Southeast Environmental Research Program, Florida International University, University Park - OE 148, Miami, FL 33199, Attn: Search Committee for <<position of interest>>. **Deadline for applications is April 4, 1997.**

FIU is an Equal Access/ Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.

STAFF SCIENTIST

The Clinical Brain Disorders Branch of the NIMH is seeking a Staff Scientist with a minimum of six years post-doctoral research experience to conduct animal studies on the neuronal mechanisms relevant to schizophrenia. Successful candidate must have demonstrated experience in studies on the sequelae of experimentally-induced developmental insults and the effects of pharmacological agents in rodents. Must have knowledge of intracerebral surgical procedures in neonatal rodents, including stereotaxic infusion techniques and implantation of probes. Other skills and experience must include broad experience in performing behavioral studies in rodents; knowledge of pharmacodynamics and pharmacokinetics of psychoactive agents; experience in intracardiac perfusion techniques, microdissection of brain tissue and histological procedures. Experience in molecular biological techniques of receptor binding, *in situ* hybridization, RNase protection assay and immunohistochemistry. The candidate must be capable of using multivariate statistical analysis and computerized statistical systems.

Interested applicants should submit curriculum vitae/bibliography, resume or optional OF 612 (Application for Federal Employment) to **Rebecca Tran, NIMH Personnel Office, Building 45, Room 3AN-32, 9000 Rockville Pike, Bethesda, MD 20892**, on or before March 14, 1997.

The National Institute of Mental Health is an Equal Opportunity Employer.

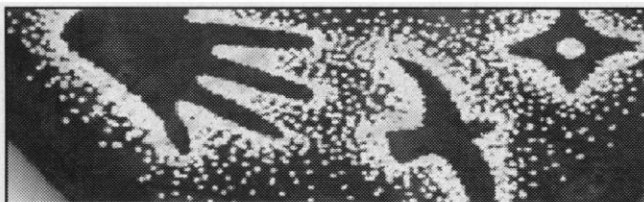
NATIONAL INSTITUTES OF HEALTH OFFICE OF THE DIRECTOR OFFICE OF SCIENCE POLICY

The Office of Science Policy in the Office of the Director, National Institutes of Health, located in Bethesda, Maryland is seeking applications for a **Health Science Policy Analyst**. The Analyst will identify emerging biomedical research and policy issues; analyze and develop policies that affect the conduct of medical research; interact with senior NIH officials, Congressional staff, and White House officials; attend plan and coordinate national meetings to develop research agendas and policies; prepare reports and analyses for research and related social, legal and ethical issues.

Candidates should have experience and comprehensive knowledge of biomedical research and/or policy analysis; the ability to translate complex medical research concepts to lay audiences; and outstanding writing skills. A candidate with a Ph.D. or M.D. degree is highly desirable, although not required. Applications from women and minorities are strongly encouraged.

This is a civil service position with a salary range of GS-12, \$45,939 to GS-14, \$83,922. Please send a curriculum vitae, a resume or an Optional Application for Federal Employment, OF-612 to the **NATIONAL INSTITUTES OF HEALTH, OD/OE, BUILDING 31, ROOM 1C27, 31 CENTER DRIVE MSC 2264, BETHESDA, MARYLAND 20892-2264, ATTN: MR. NELSON RODRIGUEZ, SCI-1, ANNOUNCEMENT #OD-97-1007**. Applications may be faxed to 301-402-1368. For additional information, please call Mr. Nelson Rodriguez at 301-496-2511. Full qualification requirements for this position may be obtained by calling 301-402-4111. Applications must be postmarked by the **Closing Date of April 7, 1997**.

NIH is an Equal Opportunity Employer



Genomics

Pharmacia & Upjohn is the world's ninth largest pharmaceutical company. We are involved in areas such as Oncology and Infectious, Metabolic, Inflammatory and Central Nervous System Diseases to help people live longer and fuller lives. If you would like an opportunity to make a difference with Pharmacia & Upjohn, contact us.

You will join a multi-disciplinary team applying genomics technologies to the problems of Alzheimer's, Parkinson's and other neurodegenerative diseases. The position requires experience in DNA template preparation, cycle sequencing, use of GCG software package in a UNIX environment, library screening, RT-PCR, 5' and 3' RACE, membrane hybridization, Northern and Southern hybridization. Familiarity with handling of BAC or P1 clones is beneficial. Qualifications include a B.S. or M.S. and 2-3 years relevant academic or industrial experience.

Prior experience with an ABI DNA Sequencer is desirable.

At Pharmacia & Upjohn you can make a difference. Not only for the sake of your career, but also for the millions of people around the world whose lives will be enhanced by the solutions you help us provide. Pharmacia & Upjohn, Inc. offers a competitive salary and benefits. Please refer to ad #970033 in all correspondence.

For confidential consideration please send your resume to: **Pharmacia & Upjohn, Ad #970033, Recruiting, 5045-88-81, 7000 Portage Road, Kalamazoo, MI 49001.** Or you may e-mail your resume (no attachments, please) to: recruit@am.pnu.com. We are an equal opportunity employer with a commitment to workplace diversity.



Pharmacia & Upjohn

Postdoctoral Position

Biochemist/Molecular Biologist

New England Biolabs, Inc.

New England Biolabs, Inc., a world leader in the production of Molecular Biology research products, has an immediate postdoctoral opening for a recent Ph.D. to study *protein splicing* and its applications. Experience with protein chemistry, protein engineering and molecular biology is required. Familiarity with protein expression systems in microorganisms is a plus. This new and exciting field has great potential for both basic research and commercial applications.

NEB offers competitive salaries, benefits and a bonus plan. Interested candidates should forward a letter of application and their curriculum vitae to: **Dr. Shaorong Chong.**

New England Biolabs, Inc.

32 Tozer Road

Beverly, MA 01915

An Equal Opportunity

Employer



NEW ENGLAND

BioLabs Inc.



ST. CHRISTOPHER'S
HOSPITAL FOR CHILDREN



ALLEGHENY
UNIVERSITY
OF THE HEALTH SCIENCES

The Bell Atlantic Endowed Chair in Pediatrics/Genetics

The Department of Pediatrics of MCP ♦ Hahnemann School of Medicine, Allegheny University of the Health Sciences, and St. Christopher's Hospital for Children are opening a search for Chief of the Section of Medical Genetics and Director of the Bell Atlantic Genetics Center for Children, a newly established, multi-disciplinary clinical and academic program devoted to research, education and care of children with genetic diseases. The selected Director will fill the Bell Atlantic Endowed Chair in Pediatrics/Genetics.

The successful candidate should have an established track record of scientific achievement in the area of molecular genetics and have the administrative and leadership ability to oversee a growing program in clinical genetics and dysmorphology, establish collaborative relationships with the Department of Human Genetics for the University and oversee undergraduate and graduate teaching, and also postgraduate training. The position carries the rank of Associate or Full Professor in the University. St. Christopher's Hospital for Children is a nonsectarian, nationally known academic medical center for children and is part of the Allegheny Health, Education and Research Foundation, a fully integrated academic health system.

Interested individuals should send their curriculum vitae or contact: **Daniel V. Schidlow, M.D., Senior Vice Chairman, Department of Pediatrics and Senior Vice President for Clinical Affairs, St. Christopher's Hospital for Children, Erie Avenue at Front Street, Philadelphia, PA 19134-1095. Phone: (215) 427-4801.** Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND CHAIR

DEPARTMENT OF PHARMACOLOGY

COLLEGE OF MEDICINE

The University of Tennessee, Memphis

The University of Tennessee, Memphis, College of Medicine seeks nominations and applications for the position of Van Vleet Professor and Chair, Department of Pharmacology. Applicants should hold the Ph.D. and/or M.D. degree, or the equivalent. We seek an individual with documented accomplishments and national recognition in teaching and research; demonstrated commitment to education; experience in supervising faculty, including development of junior faculty; and a proven record in administration and management in academics. Additional responsibilities include the overall administration of the department, i.e., budget, staff, space and other resources, and management of the educational program for health professional, graduate and postgraduate students. The new chair will be expected to build upon the existing strengths of the Department while adding new depth and dimension to the department's activities. Faculty research activities are aided by campus Molecular Resources and Neuroscience Centers of Excellence, which provide state-of-the-art facilities. The desired starting date is July 1, 1998. Review of applications will begin immediately and will continue until the position is filled. Qualified applicants must submit a letter of interest accompanied by a curriculum vitae, and the names and addresses of three references to: **Richard D. Peppler, Ph.D., Chair, Pharmacology Search Advisory Committee, University of Tennessee, Memphis, College of Medicine, P.O. Box 63647, Memphis, Tennessee 38163.** *The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI, VII and IX/Section 504/ADA/ADEA Employer, and encourages applications from qualified women and minorities.*

Molecular Genetics Urologic Cancers

Research fellow and postdoctoral fellowships are available in the Urologic Oncology Branch, NCI for scientists with experience in cellular or molecular biology for research projects dealing with:

VHL Tumor Suppressor Gene

W. Marston Linehan

Richard D. Klausner

1. Studies of molecular genetics of renal carcinoma, including the role of the recently identified VHL tumor suppressor gene and the processes whose disruption causes acquired or hereditary cancer are under investigation. Study of the subcellular localization, identification of associated proteins and of function of the VHL protein are underway.

Prostate Cancer Genes

W. Marston Linehan

2. The role of tumor suppressor genes in prostate cancer is under investigation. Study of the molecular changes associated with hereditary and sporadic prostate cancer are underway.

A background in molecular biology, cell biology or protein chemistry is optimal but not required. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience.

W. Marston Linehan, M.D.

Urologic Oncology Branch

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Responsibilities: The Director is responsible for all aspects of the Program activities, which include support of research, extension, education, and interaction both with government officials at all levels and with the private sector. The Director manages a budget of about \$3 million directly associated with the Sea Grant Program, plus an additional \$2 million in flow-through money.

Qualifications: The Director should have:

- managerial and administrative experience;
- a doctorate with a record of research;
- knowledge of the Sea Grant mission and the groups that are associated with it, involving both research and outreach;
- awareness of marine and coastal resource and environmental issues, and the laws, federal and state, that govern those issues;
- substantial experience in the development of grant proposals; and,
- strong communication skills.

Salary and benefits are competitive and commensurate with experience and qualifications.

Application Procedure: Nominations and applications are invited. Applicants should provide a letter of application, a curriculum vitae, and the names, telephone numbers and addresses of no fewer than three references to:

Dr. Jasper D. Memory, Chair, UNC Sea Grant Director Search Committee, The University of North Carolina, General Administration, P.O. Box 2688, Chapel Hill, NC 27515-2688; Fax No.: 919-962-2751

Applications and nominations will be accepted until the position is filled, but the search committee will begin the review of applications on April 15, 1997. *The University of North Carolina is an Affirmative Action/Equal Opportunity Employer*

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Interested candidates should send a resume including contact information for at least three references to: **DHR International, Job # 071, 500 Nichols Rd., Suite 450, Kansas City, MO 64112.** Fax: 816/756-5545 or e-mail: DHRKANSASCITY@worldnet.att.net EEO/AA Employer M/F/D/V.

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POSTDOCTORAL FELLOW Medicinal Chemistry

The Structural Biochemistry Program (SBP) at the NCI's Frederick Cancer Research & Development Center (NCI-FCRDC) has a challenging opportunity in its Medicinal Chemistry Group. The successful candidate will be involved in NCI-sponsored research on the rational design and synthesis of HIV protease inhibitors with an improved profile with respect to drug resistance. A PhD in organic or medicinal chemistry and experience in synthesis are required.

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Instructor of Chemistry and Biochemistry Winona, MN August 1, 1997

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The Minnesota Academy of Mathematics & Science is a private residential secondary institution offering accelerated and enriched mathematics and science courses to motivated and talented students in grades 9 through 12. The Academy is located in Winona, Minnesota—a community of 27,000 located in southeastern Minnesota in the beautiful Mississippi River Valley. The area affords a variety of seasonal outdoor recreational activities. Diverse cultural opportunities are available throughout the community and in the Minneapolis/St. Paul area which is located approximately 120 miles to the north of Winona.

Application packets are currently being accepted and will continue to be accepted until the position is filled.

Please send a curriculum vitae, a brief description of teaching philosophy and scholarly interests, academic transcripts (official copies required only for finalists), and three letters of recommendation to the following address:

Chemistry/Biochemistry Position Search Chair, The Minnesota Academy of Mathematics & Science, The Roger Bacon Center, 1165 West Broadway, Winona, Minnesota 55987; (507) 453-5400 (phone); (507) 453-5406 (fax)

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ANNOUNCEMENT

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The American College of Neuropsychopharmacology (ACNP) is pleased to announce the ACNP/GlaxoWellcome Fellowship in Clinical Neuropsychopharmacology to be awarded on or after August 1, 1997. This fellowship is intended to provide an intellectual environment for a clinical specialist to acquire formal instruction, knowledge, and skills to pursue a career in clinical neuropsychopharmacology. The goal of the ACNP/GlaxoWellcome Fellowship in Clinical Neuropsychopharmacology is to select individuals for training in targeted areas, including an in-depth knowledge of pharmacologic mechanisms and principles of pharmacokinetic and pharmacodynamic modeling as well as a working knowledge of the principles of biostatistics, clinical trial methodology, pharmacoepidemiology, drug interactions, and the ethics of clinical research. This should result in physician scientists who can move between molecular mechanism-based research and clinical studies to assess therapeutic potential. Applicant must be a physician in North America who is Board-eligible in a primary medical specialty and eligible for licensure at the proposed training site. Completed applications must be received before May 31, 1997. For more information and application forms, write or FAX to:

ACNP Secretariat
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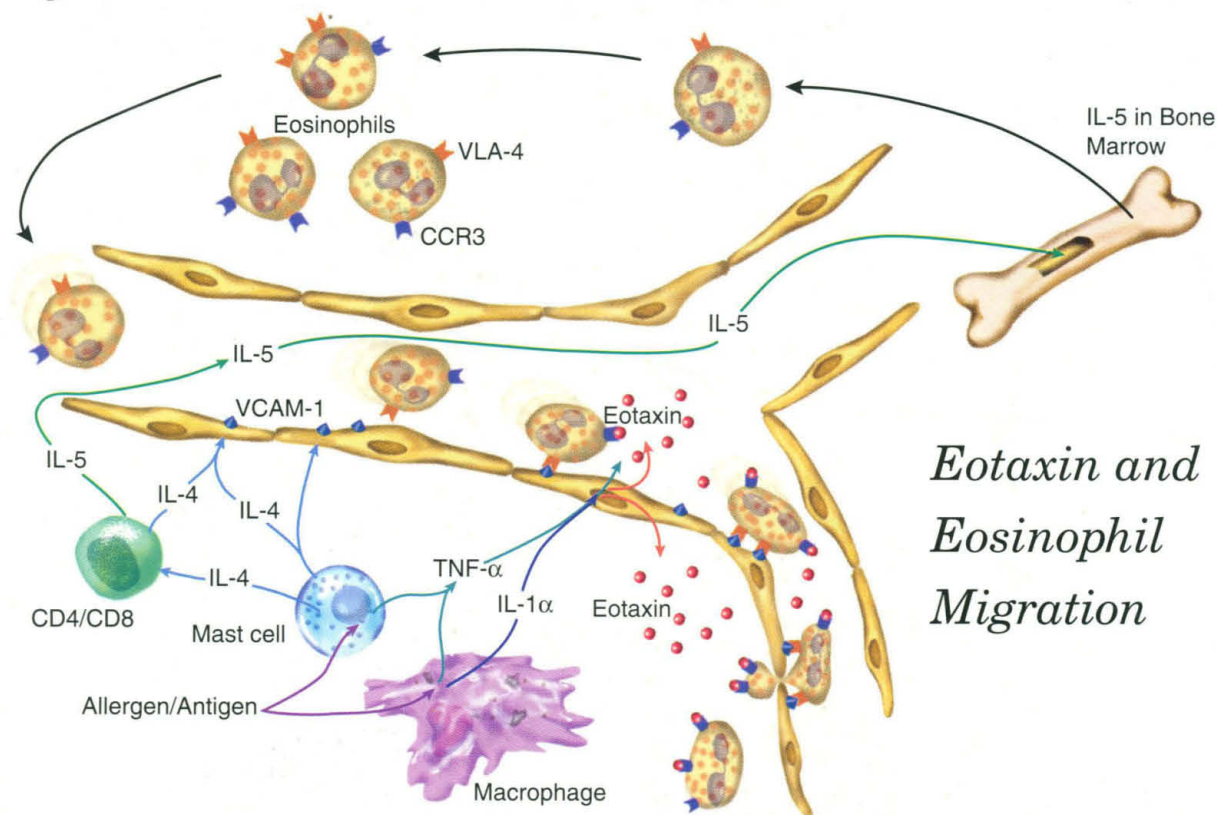
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