throughout the assembly. The tissue culture- 
treated polystyrene growth surfaces, 
continuously bathed in freshly oxygenated 
media, create the ideal microenvironment 
for the rapid proliferation of a monolayer of 
cells on both sides of each plate. The con-
stant perfusion of media across the cell 
layer optimizes the metabolic rate and 
promotes improved cell growth, protein 
expression, or virus replication. Corning 
Costar. Circle 142.

Coated Capillaries
New capillary electrophoresis capillaries 
contain a permanently adsorbed layer of 
polyvinyl alcohol that shields out negatively 
charged silanol groups. As a result, the capill-
lary shows virtually no electroosmotic flow 
over a wide pH range—from pH 2.5 to 9.5. 
Because the silica surface is covered, many 
proteins and amines can be analyzed without 
the peak tailing found in uncoated capillar-
ies. The capillaries can be used in a variety of 
applications, including protein analysis at 
physiological pH, isoelectric focusing, phar-
maceutical analysis, and ion analysis. Hewlett Packard. Circle 143.

Literature
XL Series Scanning Electron Microscopes is a 
brochure on the features and benefits of a 
line that incorporates computer technology 
and Windows software for user-friendly op-
Fractogel EMD Tentacle Phases for Hydropho-
ic Interaction Chromatography gives technical 
details of this method for the isolation of 
VIA (Varian Instrument Applications) is a 
magazine with articles about a variety of ap-
plications for chromatography, spectro-
scopy, and sample preparation products. A 
recent issue contains articles on a new 
sample introduction system for atomic ab-
sorption spectroscopy, improved chromatog-
raphy software, and more. Varian Associ-
ates. Circle 146.
GeneWorks Sequence-Centered Analysis Soft-
ware is an eight-page brochure on a com-
prehensive program for DNA and protein se-
quence analysis for the Macintosh. Capabili-
ties include database searching, multiple se-
quence alignment, circular mapping, and 
polymerase chain reaction primer design. 
IntelliGenetics. Circle 147.
Columns for Gel Permeation and Size Exclusion 
Chromatography describes a line of columns 
High-Resolution Analysis and Purification of 
Oligonucleotides with the NucleoPac PA-100 
Column presents methods for efficient sepa-
rion of synthetic DNA. Dionex. Circle 149.
Sigma.Com is a new newsletter with applica-
tion information, new product announce-
ments, and other news on the company’s ser-
vices and programs. The premier issue in-
cludes articles on a new heparin agarose, the 
use of BCA Reagent for protein determina-
tion, and new products of life science re-
search. Sigma Chemical. Circle 150.
ASSISTANT PROFESSORS OF ZOOLOGY

The University of Idaho’s Department of Biological Sciences invites applications for two TENURE-TRACK POSITIONS from candidates who have a Ph.D. and postdoctoral experience. The specific areas for which August 1996 openings are anticipated are: 1) Mammalogy/Omnitology; Teaching responsibilities will include general zoology and mammalogy/ornithology; 2) Fisheries Biologist. Teaching responsibilities will include ichthyology and invertebrate zoology.

Appointments will be at the assistant professor level. Successful candidates will be expected to have a keen graduate instructional interest, to establish extramurally funded research programs and to supervise research at the undergraduate, Master’s, and doctoral levels. Applications will be reviewed if received by October 20, 1995. Applicants should send a statement of research goals, teaching philosophy, curriculum vitae and the names and telephone numbers of three references to: Julie Monroe, Secretary to the Search Committee, Department of Biological Sciences, University of Idaho, Moscow, ID 83843. Email: jmonroe@aspen.crv.uidaho.edu; http://www.uidaho.edu/Letters_and_Science/BioSci/. To reach education through diversity, the University of Idaho is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF WYOMING
Vertebrate Ecological Genetist or Modeler

The Department of Zoology and Physiology at the University of Wyoming seeks applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Teaching responsibilities include an undergraduate course in one of the following areas: fish/wildlife management, population ecology, modeling, or conservation biology, and may vary in the interdiscipline area of interest. We seek an individual with research expertise in either ecological modeling or population genetics. Modeling can address population dynamics, spatial relationships, or multi-tiered ecological systems that include vertebrates. Research in genetics of animal populations should incorporate the latest molecular approaches, and may address questions about variability and relatedness of animals in ecological, conservation, or evolutionary contexts. The incumbent will be expected to seek extramural support for research, and to carry out an active program of graduate training. A Ph.D. is required and postdoctoral experience desirable. An application, including a letter outlining research interests, curriculum vitae, and three letters of reference, should be submitted to: Chair, Wildlife Biologist Search Committee, Department of Zoology and Physiology, P.O. Box 30, University of Wyoming, Laramie, WY 82071-3166. Telephone: 307-766-4207; FAX: 307-766-5625. To be considered, application materials must be postmarked by 1 October 1995. An Equal Opportunity/Affirmative Action Employer.

OKLAHOMA STATE UNIVERSITY
Assistant Professor of Pharmacology

The Department of Pharmacology and Physiology, College of Osteopathic Medicine, invites applications from individuals to establish a research program in molecular aspects of pharmacology and teach pharmacology to second-year medical students. Research interests of the department center on cardiovascular and renal physiology and pharmacology. Desirable interests of the applicant include receptor-effector coupling, binding and localization of receptors, and molecular genetic techniques. Applicants should have a Ph.D. or equivalent in pharmacology and at least two years of postdoctoral experience. Ph.D. applicants should have a record of scholarly publications, ability to attract extramural funding, and excellent written and oral communication skills. Teaching experiences, and willingness to work with minority applicants are especially encouraged to apply. Applicants should send curriculum vitae, a description of research interests and the names, addresses and telephone numbers of at least three references to: Dr. George Brenner, Chair, Department of Pharmacology and Physiology, OSU-COM, 1111 West 17th Street, Tulsa, OK 74107-1893.

ASSISTANT/ASSOCIATE PROFESSORS(S) PLANT PATHOLOGY

Applications are invited for two tenure-track positions focusing on fundamental research concerning plant-pathogen interactions. Successful candidates will be allowed broad latitude in determining particular research directions. However, some be given in one position for an individual using molecular approaches to the study of prokaryotes and plant diseases in which they are causally involved; in both cases, postdoctoral experience is desirable. One position may be filled at the ASSOCIATE PROFESSOR level with an individual who has demonstrated appropriate professional accomplishments. The appointment will contribute to the instructional program in the department as well as to provide expertise to other departmental efforts. Applicants should send curriculum vitae, samples of publications, any other evidence of professional accomplishments considered relevant and the names/address-es/telephone numbers of at least three professional references to: Dr. David A. Smith, Department of Plant Pathology, S-305 Agricultural Science Building, North, University of Kentucky, Lexington, KY 40546-0091. Telephone: 606-257-3901; FAX: 606-332-1961; Email: dsmith@ukc.ars.usda.gov. Applications will be accepted until August 31, 1995, or until suitably qualified candidates are found.

INFECTION DISEASES

The Division of Infectious Diseases of the Department of Medicine at Emory University School of Medicine is seeking applications for a new faculty member as part of organizational expansion of the Division. In addition to research activities, the position is at the level of ASSISTANT/ASSOCIATE PROFESSOR. Applications are invited from individuals with a focus on molecular epidemiology and evaluation of extramurally funded research programs in epidemiology, molecular epidemiology, hospital and community control of tuberculosis, and education and training of medical personnel. The position is generously supported by grants from the Robert Wood Johnson Foundation and NIH. The Division also has strong ties with the Centers for Disease Control and the Department of Microbiology and Immunology and other basic science departments of the Emory University School of Medicine, and the Yerkes Primate Center. These collaborative resources provide an excellent opportunity for career development. Applicants should provide a curriculum vitae and names and addresses of three to five professional references to: Dr. David S. Stephens, Director, Division of Infectious Diseases, Department of Medicine, 69 Butler Street, Suite 302, Atlanta, GA 30322. Emory University is an Equal Opportunity Employer and applications from women and members of minorities are encouraged.

The University of Virginia is seeking qualified applicants for a tenure-track ASSISTANT PROFESSOR position in the area of organic chemistry, broadly defined. Candidates are expected to establish a high quality productive research program that will attract outside funding and top caliber graduate students and postdoctoral collaborators. Teaching ability at both undergraduate and graduate levels is a prime consideration. Applicants should send a curriculum vitae, copies of reprints/preprints, and a detailed description of research plans no later than November 1, 1995, to: Professor James A. Marshall, Chairman of Organic Faculty Search Committee, Department of Chemistry, McCormick Road, University of Virginia, Charlottesville, VA 22903. Applicants should also arrange that three letters of recommendation be sent to the above address by the same date. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST

Stonehill College, a small liberal arts undergraduate institution located south of Boston invites applications for a tenure-track ASSISTANT PROFESSOR position in Molecular Biology. Applicants should have a Ph.D. and a strong commitment to teaching and undergraduate research. Would be expected to teach and participate in a team-taught genetics, and one or more of cell biology courses, including genetics, invertebrate and vertebrate introductory genetics, and at least one of the following electives: the molecular basis of disease, molecular genetics, and modern molecular biology. The position requires individuals with research interests and experience in molecular biology. Qualified applicants should send curriculum vitae, statement of research and teaching interest, and three letters of reference by September 30, 1995, to: Department of Biology, Stonehill College, North Easton, MA 02358.
PLANT MOLECULAR GENETICIST/ MOLECULAR BIOLOGIST
University of Nebraska-Lincoln
Department of Biochemistry

Seeking candidates for tenure-track, 12-month appointment, ASSISTANT PROFESSOR position. Particularly interested in applicants whose research focuses on plant research in areas pertinent but not limited to understanding the molecular/biochemical basis of genome organization and/or gene expression. Will be expected to develop an active research program and to teach one course per year at the undergraduate or graduate level. Department housed in the new G. W. Hedrich Building. $32 million laboratory/greenhouse complex. Requires Ph.D. degree and postdoctoral experience. Send curriculum vitae, one-page statement of research interests, a representative publication, and three current letters of reference. Reference letters should be submitted to: Dr. Raymond Chollet, Department of Biochemistry, University of Nebraska-Lincoln, 1008 West University Avenue, Lincoln, NE 68588-0601. University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity. Is responsive to the needs of dual-career couples and assures reasonable accommodation under the Americans With Disabilities Act.

Institute University. The Chemistry Department, Indiana University is soliciting applications for a JUNIOR PROFESSIONAL position in organic chemistry beginning in the fall of 1996. The appointment could be made at either the tenured or tenure-track level. We are seeking an imaginative, energetic and independent individual capable of establishing an outstanding, vigorous internationally recognized research program in any branch of organic chemistry, including bioorganic chemistry, materials science and physical organic chemistry. The successful applicant will also be expected to demonstrate an excellent ability to teach organic chemistry in both the graduate and undergraduate levels, as well as in containing general chemistry. Applicants should send a curriculum vitae, publica- tion list, a copy of each publication and a research proposal to the attention of Professor John C. Bausch, Department of Chemistry, Indiana University, Bloomington, IN 47405-4001. Indiana University is an Affirmative Action/Equal Opportunity Employer and especially encourages applications from women and members of minority groups.

ASSISTANT, ASSOCIATE or FULL PROFES-
SOR, tenure-track position available. Experience in basic cellular and molecular approaches relevant to anesthesia and pharmaceutics will be considered as well as experience in molecular mechanisms of neurotransmitter and drug action in the mammalian nervous and cardiovascular systems. Applicants should have a broad background in chemical structure dissection of ligand-receptor interactions, and the analysis of sensory transduction and pain pathways. Responsible for developing role of basic science expertise in research-oriented anesthesiology fellowship and collaborates with laboratory fellows. Send curriculum vitae and three reference letters to: Dr. Raymond Chollet, 1008 West University Avenue, Ne 68588-0601. University of Nebraska-Lincoln Department of Biochemistry, University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity. Is responsive to the needs of dual-career couples and assures reasonable accommodation under the Americans With Disabilities Act.

RESEARCH ASSISTANT PROFESSOR, Division of Radiobiology, School of Medicine. Position available is 100% research. A Ph.D. and/or M.D., five years of postdoctoral experience and an exten- sive publication record are required. The successful can- didate will be expected to continue and foster a vigorous, externally funded research in the area of in vivo models of hard tissue diseases and supervise postdoctoral fellows. Applicants should have an M.D. or Ph.D. degree, a statement of research interest and training, names, addresses and telephone and FAX numbers of three references and copies of most significant recent publications by October 1, 1995, to:

Dr. Webster S. S. Joe
Diagnosis of Radiotherapy
Building 586
University of Utah
Salt Lake City, UT 84112
FAX: 801-581-7008

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

UNIVERSITY OF PUERTO RICO
Mayaguez Campus
Myagizzes, P.R. 00681
Professor in Marine Sciences

A TENURE-TRACK POSITION at the Assistant Level, starting August 1995. Candidates will be expected to teach graduate level courses and develop an active research program in one of the following areas: Coral/ Coral Reef Biology, Marine Geology, Bio-Odical Optical- graphy, or Marine Ecology. Salary: $29,400 annually, can be augmented with external funding. Ph.D. required, knowledge of English and Spanish desirable. Send statement of research and teaching interests, curriculum vitae, and three letters of recommendation by September 15, 1995, to: Director, Department of Marine Sciences, University of Puerto Rico, Mayaguez, PR 00681-5000. Affirmative Action/Equal Opportunity Employer.

HARVARD UNIVERSITY DEPARTMENT OF CHEMISTRY
Assistant Professorship in Inorganic Chemistry

Applicants are invited to apply for an ASSISTANT PROFESSORSHIP in inorganic chemistry. Applicants should have three letters of recommendation sent independently to the Department of Chemistry, Chemistry Department, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minority group members.

ASSISTANT PROFESSOR/University of Minnesota: One individual is being sought as a full-time Assist- ant Professor (tenure-track) in the Department of Surgery in the area of Wound Healing and Reparative Medicine. Position requires demonstration involved in clinical or basic research (accepted or published) in peer-reviewed journals and conference in teaching. Candidate must be M.D., licensed to practice medicine in Minnesota, and be Board-eligible or -certified in general surgery. Individual must have completed a general surgery residency and a fellowship in wound healing and/or reparative surgery. Qualities will include patient care, teaching, and developing programs in clinical and/or basic research programs in the field of wound healing and reparative surgery. Please send curriculum vitae by Sep- tember 5, 1995, to: Dr. David Wahl, telephone: 217-728-4400. To apply: send curriculum vitae, a statement of research inter- ests, up to three reprints, and names of four references to: Jacqueline Sandcher, Chair, Department of Surgery, University of Minnesota, 420 Delaware Street S.E., Minneapolis, MN 55455. Position available is 100% research. A Ph.D. and/or M.D., five years of postdoctoral experience and an exten- sive publication record are required. The successful can- didate will be expected to continue and foster a vigorous, externally funded research in the area of in vivo models of hard tissue diseases and supervise postdoctoral fellows. Applicants should have an M.D. or Ph.D. degree, a statement of research interest and training, names, addresses and telephone and FAX numbers of three references and copies of most significant recent publications by October 1, 1995, to:

Ms. Mary Jane Towle c/o Search Committee for Assistant Professor in Wound Healing University of Minnesota, Minneapolis, Minnesota 55455

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

POSTDOCTORAL POSITION NEUROBIOLOGY

Position available to study glutamate receptor-related neurophysiologic changes in the hippocampus and related cortical areas. The candidate is expected to work on both human pathologic studies as well as ischemia-related neu- ronal degeneration in an animal model of global brain ischemia. Previous experience with immunohistochemis- try is essential and experience with confocal and/or elec- tron microscopy is desirable. Sophisticated quantitative computer-assisted microscopy will be used for these analy- ses. Please send curriculum vitae with the names of three references to: John H. Vivian, Ph.D., Department of Neurobiology, Box 1065, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

Two- or three-year POSTDOCTORAL FELLOW- ship in Neuroimmunology available. Applicant should have a Ph.D. or M.D. in Neuroscience, Neuroimmunology, Immunology, Immunopathology, Virology, or Molecular Biology. Applicants will have the opportunity to pursue one of the following research areas: neuroimmunology, neuroimmunology, glial cell electrophysiology and molecular biology, CNS gene therapy or multiple sclerosis. Please submit curriculum vitae and a brief letter of research interest to: Barry G. Aronson, M.D., Chairman, Department of Neuro- biology, The University of Chicago Medical Center, 5841 South Maryland Avenue, Chicago, Illinois 60637. The University of Chicago is an Equal Opportunity/ Affirmative Action Employer.

DIRECTOR OF RESEARCH AND COL- LECTIONS

The North Carolina State Museum of Natural Science invites applications for a new position of Director of Research and Collections, a senior research/administration position. Primary requirements are 1) administration experience, 2) experience in the development and management of collections and museum experience, and 3) demonstrated abili- ties in good people skills. Applicants should also have demonstrated management abilities, experience in seek- ing and obtaining funding for research and collections manage- ment, a commitment to collection growth and curation, and will be expected to assist in exhibit interpretation planning and development, and assume responsibil- ities as required. This position will be a significant role in developing the overall programs of a new 200,000 square foot Museum. Master's degree (Ph.D. preferred) in biology, zoology, paleontology, or other natural science disciplines. MA, BS, in biology or a related field and five years of progressive museum-re- lated research and administration experience in a univer- sity natural sciences department or natural history muse- um is preferred. Please submit letter of application and curriculum vitae with bibliography, and references to: Dr. Betty R. Rote, North Carolina Museum of Natural Sciences, 102 North Salisbury Street, Raleigh, NC 27603/Department of Environment, Health and Natural Resources; Museum Division. An Equal Opportunity/Affirmative Action Employer.

The Center for Aquatic Ecology invites applications for an ASOCIATE RESEARCH SCIENTIST (postdoc- toral), as leader for studies of potential effects of increased commercial navigation traffic on fishes in the Mississippi River drainage. The position is funded, three years project. Candidate must hold a Ph.D. in fisheries biology or closely related disci-pline, a record of independent research, and expertise in statistics or modeling. Preference to individuals having diverse experience with fishes in a variety of habitats and with supervisory ability. Potential to develop independent research. Field sampling will be conducted at the Alton Field Station near St. Louis, Missouri, but facilities of the Natural History Survey, an affiliated agency of the Uni- versity of Illinois will be available. Salary range will be $30,000-$38,000 plus benefits. Technical questions to: Dr. David Wahl, telephone: 217-728-4400. To apply: send curriculum vitae, a statement of research inter- ests, up to three reprints, and names of four references to: Jacqueline Sandcher, Chair, Department of Surgery, University of Minnesota, 420 Delaware Street S.E., Minneapolis, MN 55455. Position available is 100% research. A Ph.D. and/or M.D., five years of postdoctoral experience and an exten- sive publication record are required. The successful can- didate will be expected to continue and foster a vigorous, externally funded research in the area of in vivo models of hard tissue diseases and supervise postdoctoral fellows. Applicants should have an M.D. or Ph.D. degree, a statement of research interest and training, names, addresses and telephone and FAX numbers of three references and copies of most significant recent publications by October 1, 1995, to:

Ms. Mary Jane Towle c/o Search Committee for Assistant Professor in Wound Healing University of Minnesota, Minneapolis, Minnesota 55455

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

The University of Chicago is an Equal Opportunity/ Affirmative Action Employer.
Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

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**Tenure-Track Positions**

**Assistant Professor Equivalent**

**Pharmacokinetics and Drug Metabolism**

Markku Linnola, MD, PhD

A position is available for a scientist with expertise in pharmacokinetics to establish an independent research program to develop radiolabeled imaging agents for Positron Emission Tomography. Experience in the use of HPLC and GCMS and training in PBPK models, neuropharmacology and drug metabolism is desirable. Experience should include the supervision of junior fellows and technicians. A brief statement of research interests and a curriculum vitae should be submitted in addition to three letters of recommendation. Office of the Scientific Director (OE-94), NIAAA, Building 10, Room 3C103, 10 CENTER DR MSC 1256, BETHESDA MD 20892-1256.

**Taste and Smell Research**

Reuben P. Siraganian, MD, PhD

A position is immediately available to investigate molecular mechanisms involved in taste and smell. The applicant will utilize molecular biology and biochemical and/or cell biological approaches to investigate the molecular mechanisms involved in chemo-sensory perception and/or receptor cell differentiation. Support for two postdoctoral fellows or technicians will be provided. A two-page statement of research interests and a curriculum vitae should be submitted in addition to three letters of recommendation. Laboratory of Immunology (OE-94), NIDR, Building 10, Room 1N106, 10 CENTER DR MSC 1188, BETHESDA MD 20892-1188.

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**Postdoctoral Positions**

**Differentiation and Signal Transduction**

Francis W. Ruscetti, PhD

Studies using Xenopus laevis are aimed at understanding the cellular interactions and signal transduction events elicited by a receptor tyrosine kinase of the Eph family to affect changes in differentiation and cell fate. Additionally, a novel homeodomain protein involved in myeloid leukemogenesis is being studied. Candidates should have less than five years of postdoctoral experience and a strong background in molecular, and/or developmental or cell biology. Laboratory of Leukocyte Biology (OE-94), NCI-BRMF FCRDC, Building 567, Room 254, Frederick MD 21702.

**Neurosciences**

John M. Hallenbeck, MD

Interactions between circulating inflammatory/immune cells and endothelial cells in relation to stroke are being investigated, with emphasis on the role of cytokines. Applicants must be knowledgeable in immunology, biochemistry, and cell culture, histochemistry, and immunohistochemistry. Stroke Branch (OE-94), NINDS, Building 36, Room 4A03, 36 CONVENT DR MSC 4128, BETHESDA MD 20892-4128.

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**Gene Regulation in Central Nervous System**

Michael Brenner, PhD

The factors involved in the regulation of gene expression in the central nervous system are being examined using in vitro transcription, cell transfection, and transgenic mice. Current studies focus on the GFAP gene, which encodes an intermediate filament protein found primarily in astrocytes. Experience in molecular biology, biochemistry, or cell culture is desirable. Stroke Branch (OE-94), NINDS, Building 36, Room 4A03, 36 CONVENT DR MSC 4128, BETHESDA MD 20892-4128.

**Regulation of Sympathetic Nervous System Function**

Irwin J. Kopin, MD

The development and plasticity of the peripheral sympathetic nervous system and its control by central nervous system mechanisms are the subjects of study. Projects include evaluation of molecular mechanisms governing these processes in health, with drug administration, and in disease states. Applicants should have a strong background in molecular and cell biology. Clinical Neuroscience Branch (OE-94), NINDS, Building 10, Room 5N214, 10 CENTER DR MSC 1424, BETHESDA MD 20892-1424.

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**Additional Opportunities**

The NIHEDNET Bulletin Board POSTDOC fellowship positions) and TENURE (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7,Even,1) or the Internet using Telnet (wylbur.cu.nih.gov) or the World Wide Web (URL: telnet://wylbur.cu.nih.gov). When connected to NIH, key in ,vt100 for terminal emulation, F5 for initials, and AL1 for account number. To view tenure track positions, quit the POSTDOC conference and join the TENURE conference.

An electronic version of the Postdoctoral Research Fellowship Opportunities catalog is accessed via the internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (URL: http://www.nih.gov). When connected to Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

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**To Apply**

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

Work on the molecular and cellular regulation of nitric oxide-guanylcysyl signaling pathway in the context of vascular physiology and pathophysiology with dynamic vascular biology research group at the University of Minnesota. Molecular biology expertise essential. Promoter analysis experience preferable. Applications detailing molecular biology experience to: Roger A. Johns M.D., University of Virginia Health Sciences Center Box 238, Charlottesville, VA 22908 USA. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW

Position is available in the Department of Pharmacology, University of Missouri-Columbia. Candidates should have experience in molecular pharmacology. Current research interests of the faculty in the department include: neuropharmacology, immunopharmacology, peptide and hormone receptor interactions, myo-inositol signaling pathways, mechanism and regulation of ion transport; biochemical and physiological action of hormone and growth factors; and, the expression and function in cell growth, differentiation and cellular homeostasis. Interested applicants should send a letter describing their research interest, a curriculum vitae and names and addresses of three references to: Jeannie Jasmer, Department of Pharmacology, University of Missouri-Columbia, Columbia, MO 65212. The qualified applicant will have a Ph.D. in pharmacology or related disciplines and will be expected to carry out independent research under the general supervision of one of the faculty members for extra support following the initial support period. The University of Missouri-Columbia is an Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

DUKE UNIVERSITY

A POSTDOCTORAL POSITION for a recent Ph.D. to study RNA regulation is available immediately. Additional experience in tissue culture and/or viral vectors would be beneficial. Send curriculum vitae and three letters of reference to: Dr. Debra Schwin, Box 3094, Duke University Medical Center, Durham, NC 27710. Fax: 919-681-4776.

Two POSTDOCTORAL POSITIONs are available immediately. 1) To study the electrophysiology and pharmacology of recombinant and native GABA, receptors. Experience in patch clamp or molecular biology desirable. 2) To study animal pharmacology in areas of drug design and substance abuse. $1,960 per month. Submit curriculum vitae and names of references to: Department of Human Resource Services, University of North Texas at Commerce, Commerce, TX 75429. Send curriculum vitae and names of references to: Dr. John V. Rathbone, Suite 1-735, 3500 Camp Bowie Boulevard, Ft. Worth, TX 76107-2699. An Equal Employment Opportunity/Affirmative Action Institution.

An opportunity for an individual to participate in a research program focused on the interaction of bacterial and viral ligands with cellular receptors. Candidates should have a Ph.D. in microbiology, cell biology, biochemistry, molecular biology or related fields. Experience in either membrane biology, signal transduction, virology, and/or bacteriology. Send curriculum vitae, transcripts, three references, and a one-page summary of research interests by Sept. 24 to: Dr. Christopher Chase, Department of Veterinary Science, P.O. Box 2175, South Dakota State University, Brookings, SD 57007. Send curriculum vitae and references to: Dr. Steven F. McMurtry, Mayo Clinic and Foundation, Rochester, MN 55905. Email: mcmurtry@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer.

Universities and colleges listed in alphabetical order.

POSTDOCTORAL POSITIONS

Mayo Clinic and Graduate School

Applications are invited for study of structure and function of molecules related to neurodegeneration. Three positions available immediately: 1) NMR/ molecular modeling of trivalentic peptide DNA (Gacy et al., 1994); 2) Osteoporosis (Stuewe); and 3) Molecular biology (Stuewe). Excellent salaries and benefits for qualified individuals. Interested parties should send curriculum vitae and three letters of recommendation to: Dr. Cynthia T. McMurray, Department of Pharmacology, Mayo Foundation, Rochester, MN 55905. Email: mcmurtry@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer.

Scripps Institution of Oceanography

POSITIONS AVAILABLE

for research scientists in: 1) Marine Molecular Evolution; 2) Marine Molecular Genetics; and 3) Marine Molecular Immunology. Send curriculum vitae and names of three references to: Dr. Gerald S. Hance, Scripps Institution of Oceanography, 9500 Gilman Drive, La Jolla, CA 92093-0201. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

University of California, Los Angeles

1. Cancer Biology: Dynamics of cellular homeostasis. Recent research interest, including peptic ulcer disease, is required. M.D. or Ph.D. in molecular biology required. Send curriculum vitae and three letters of reference to: Dr. Gerald S. Hance, Scripps Institution of Oceanography, 9500 Gilman Drive, La Jolla, CA 92093-0201. Equal Opportunity Employer.

2. Developmental Biology: Genetics of vertebrates. Send curriculum vitae and names of three references to: Dr. David S. Knowles, 1601 Childs Road, P.O. Box 9517, Los Angeles, CA 90024. Equal Opportunity Employer.

3. Zoology: Molecular evolution. Send curriculum vitae and names of three references to: Dr. David S. Knowles, 1601 Childs Road, P.O. Box 9517, Los Angeles, CA 90024. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

University of Michigan, Medical School

Applications are invited for study of structure and function of molecules related to neurodegeneration. Three positions available immediately: 1) NMR/ molecular modeling of trivalentic peptide DNA (Gacy et al., 1994); 2) Osteoporosis (Stuewe); and 3) Molecular biology (Stuewe). Excellent salaries and benefits for qualified individuals. Interested parties should send curriculum vitae and three letters of recommendation to: Dr. Cynthia T. McMurray, Department of Pharmacology, Mayo Foundation, Rochester, MN 55905. Email: mcmurtry@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer.

The University of North Carolina at Chapel Hill

Two POSTDOCTORAL POSITIONS in the Pharmacology Department are available immediately. 1) NMR/ molecular modeling of trivalentic peptide DNA. 2) Osteoporosis. Experience in recombinant DNA technology strongly preferred. Send curriculum vitae and three letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor, Department of Pharmacology, University of Michigan, Ann Arbor, MI 48109-0460. We encourage applications from candidates who will enrich and contribute to the cultural diversity of our University.

POSTDOCTORAL POSITIONS

University of California, Los Angeles

1. Cancer Biology: Dynamics of cellular homeostasis. Recent research interest, including peptic ulcer disease, is required. M.D. or Ph.D. in molecular biology required. Send curriculum vitae and three letters of reference to: Dr. Gerald S. Hance, Scripps Institution of Oceanography, 9500 Gilman Drive, La Jolla, CA 92093-0201. Equal Opportunity Employer.

2. Developmental Biology: Genetics of vertebrates. Send curriculum vitae and names of three references to: Dr. David S. Knowles, 1601 Childs Road, P.O. Box 9517, Los Angeles, CA 90024. Equal Opportunity Employer.

3. Zoology: Molecular evolution. Send curriculum vitae and names of three references to: Dr. David S. Knowles, 1601 Childs Road, P.O. Box 9517, Los Angeles, CA 90024. Equal Opportunity Employer.
**Senior Research Scientist/Protein Crystallographer**

Merck Research Laboratories has an immediate opening in protein crystallography. The successful candidate will join a team of structural biologists and enzymologists to participate in ongoing multidisciplinary drug development programs. The candidate must be a recent Ph.D. graduate with postdoctoral experience and extensive research expertise in X-ray crystallography and protein crystallization. He/she is expected to be well versed in solving crystal structures of macromolecules de novo utilizing classical approaches and modern technology. Our crystallographic facilities include a modern biochemistry wet lab and an X-ray diffraction lab equipped with an ICN robotic crystallization system, 2 walk-in cold rooms, 2 Rigaku rotating anode generators, 2 RAXIS-II imaging plate systems, 3 Silicon graphics workstations, a subzero temperature data collection system, and a darkroom. Our computer supporting system includes VAX clusters and a CRAY YMP supercomputer. Excellent salary and benefits programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to: Personnel Manager, MRL Human Resources WP 42-2, Merck Research Laboratories, P.O. Box 4, Ad # B-30, West Point, PA 19486. Equal Employment Opportunity/Affirmative Action/Veterans Employer.

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**FACULTY POSITION**

**University of Arkansas for Medical Sciences**

**Department of Pharmacology and Toxicology**

The Department of Pharmacology and Toxicology has a tenure-track position available. Candidates at levels of Assistant Professor, Associate Professor and Professor are invited to apply. We are seeking individuals with a record of research excellence and strong interests in medical education. The credentials of a candidate for the position at a senior academic rank would be expected to include extramural funding. Research and teaching experience in some aspect of cardiovascular pharmacology is preferred. Laboratory and office space is available in the new basic research building on the UAMS campus. A substantial start up package will be provided to the successful candidate. Candidates should submit a curriculum vitae and the names and addresses of three individuals that we may contact for letters of reference. Applications should be submitted to: Dr. Galen R. Wenger, Director, Division of Pharmacology, College of Medicine, University of Arkansas for Medical Sciences, 4301 West Markham Street, Mail Slot 611, Little Rock, AR 72205. The University of Arkansas for Medical Sciences is an equal opportunity employer. Women and minorities are encouraged to apply.

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**Procter & Gamble**

**POSTDOCTORAL POSITION IN BIOCHEMICAL TOXICOLOGY**

The Procter & Gamble Company has an immediate postdoctoral position available for a scientist to work in our R&D laboratories in Cincinnati. This position is ideal for an individual who desires a postdoctoral experience in biochemical toxicology.

The successful candidate will participate in research programs directed toward understanding the role of cytochrome P-450 induction and xenobiotic metabolism in toxicity and carcinogenicity. The laboratory takes a diverse approach (biochemical, cellular and molecular) to the study of mechanisms of toxicity, and current work includes the development of transgenic animals for research models. Candidates with experience in toxicology, pharmacology or biochemistry are preferred. Our laboratory is part of large group carrying out basic research in toxicology in a collegial atmosphere where publishing results is stressed.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual sales exceed $30 billion, and our R&D budget is $1 billion/year. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms. For confidential consideration, please send a letter of introduction, resume, and list of publications to:

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has a Ph.D. and have experience in developing molecular diagnostic assays for infectious agents, in the direction of tumor markers, and have a list of references with contact addresses and telephone numbers to Dr. Hazwin Faruki, Molecular Diagnostics, Institute for Translational Research, University of the Allies, Pittsburgh, PA 15213. FAX: 412-621-5730.

A POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE position is available for a scientist interested in studying signal transduction mechanisms for integrin gene regulation and the role of specific integrins in tumor metastasis in the Laboratory of Molecular Biology at the Guthrie Research Institute. The Institute offers outstanding facilities and opportunities for both collaborative and independent work in a supportive environment. Experience in molecular biology, biochemistry, or cell biology is required. Candidates should send their curriculum vitae and the names of two references to: Dr. John D. Noti, Guthrie Research Institute, 1 Guthrie Square, Sayre, PA 18840. Telephone: 717-882-4653; FAX: 717-882-5181. An Equal Opportunity Employer.

VISITING SCIENTIST

The Department of Tropical Public Health invites applications for a POSTDOCTORAL RESEARCH ASSOCIATE to participate in research studies conducted in Boston and Brazil on schistosomiasis or malaria through an affiliation with a National Institutes of Health/International Centers for Infectious Disease Research Award. Successful applicants will spend from two months to one year at the following study sites: Salvador, Bahia, Fortaleza, CEARA or Rio de Janeiro, RIO DE JANEIRO. Applicants must have a Ph.D. or M.D. degree and/or relevant experience in epidemiology, immunology, and pharmacology. Please send research proposal, curriculum vitae and three letters of reference to: Dr. Donald Harn, Professor of Biology, 700 Main Street, Department of Tropical Public Health, 665 Huntington Avenue, Boston, MA 02115. Telephone: 617-432-1257.

MITCHELTON AND FREE RADICAL ENZYME SYMPOSIUM October 6 to 10, 1995

San Antonio, Texas

This conference explores the rapidly accumulating evidence in mitochlondrial and free radical biology. Abstracts are significantly involved in aging. Six symposia featuring 26 speakers including leading investigators (e.g., J. Müller-Höcker, E. Shoubridge, R. Sohal, D. Wallace). For information, contact: Program Chair, MITCHELTON and FREE RADICAL ENZYME SYMPOSIUM, 2129 Providence Avenue, Chester, PA 19013. Telephone: 610-874-7550; FAX: 610-876-7715; Email: amgering@AOL.COM.

SYMPOSIA

SUSCEPTIBILITY AND RISK ASSESSMENT The Third Annual Symposium on the Health Effects Research Laboratory The Health Effects Research Laboratory (HERL) of the U.S. Environmental Protection Agency is pleased to announce that its Third Annual Symposium will be held November 6-9, 1995, at the North Raleigh Hilton in Raleigh, North Carolina. This third in the Annual HERL Symposium Series on Research Advances in Health Risk Assessment will focus on known factors affecting the susceptibility of humans, experimental animal models, or cell tests to environmental toxicants with the goal of refining risk assessment strategies which must consider variable population response. Protection of the "susceptible individual" is a fundamental goal of environmental regulation. Indeed, it is generally accepted that if the susceptible individual is included, the entire population will be protected. The format of the HERL Symposium will include invited platform presentations and contributed poster presentations. For more information, please contact: 1995 HERL Symposium: Susceptibility and Risk Assessment c/o RSD Conference Coordinator U.S. EPA HERL, MD-70 Research Triangle Park, NC 27711 Telephone: 919-541-4002 FAX: 919-541-4002 Internet: MEETINGS@HERL45.HERL.EPA.GOV

ETHICAL ISSUES IN RESEARCH RELATIONSHIPS BETWEEN UNIVERSITIES AND INDUSTRY Sponsored by University of Maryland and Baltimore Center for Biomedical Ethics Friday and Saturday, November 3 and 4, 1995 Marriott Inner Harbor Hotel For information, contact: Dr. James Rule, University of Maryland, Room 3-E-10, 666 West Baltimore Street, Baltimore, MD 21201. Telephone: 410-706-7960; FAX: 410-706-8528.
Biohalogenation

A one-day symposium of the Whistler Center for Carbohydrate Research, Purdue University

H. Brian Dunford

University of Alberta

Mechanism of Halogenation
by Heme-containing Peroxidases

Lowell P. Hager

University of Illinois

Heme-containing Chloroperoxidases

Thomas Poulos

University of California, Irvine

Tertiary Structure of Heme-containing Chloroperoxidase

Ron Wever

University of Amsterdam

Structure and Activity of Vanadium Chloroperoxidase

Alison Butler

University of California, Santa Barbara

Vanadium Bromoperoxidases

K.H. van Pée

Technical University, Dresden

Bacterial Haloperoxidases

September 25, 1995, 9 a.m. - 4 p.m.
Room 320 Stewart Center
Purdue University

Registration not required

For assistance with hotel reservations contact:
Nedra Michael
Tel.: (317) 494-6171
Fax: (317) 494-7935
e-mail:michaeln@foodsci.purdue.edu

Oregon Health Sciences University

Biochemistry & Molecular Biology

Physical Biochemistry

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion during the next several years, focusing on mechanisms of biochemical processes at the molecular level. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We are interested in biochemists whose focus is in applying biophysical techniques to the analysis of protein or nucleic acid function.

We will offer attractive start-up packages, competitive salaries, and the opportunity to participate in the growth and development of a dynamic and interactive department in a highly desirable location. Faculty will be expected to establish competitive research programs and assist in graduate and medical school teaching. Applicants at the Assistant Professor level should have a Ph.D. with several years of postdoctoral experience. Applications for our first series of appointments should be received by September 30, 1995.

Interested applicants should send a copy of their current vita, a description of their research plans and interests, and the names of three references to:

Professor Jack H. Kaplan, F.R.S.
Faculty Search (PB)
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
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Principal Scientist

Central Nervous System Pharmacology

To qualify for this excellent career opportunity, you will need a PhD and 5-8 years of postdoctoral experience which includes extensive background in the use of in vitro and in vivo binding techniques to study neurotransmitter receptors. Experience with other biochemical pharmacology techniques used to study neuronal function, such as enzyme assays, microdialysis or HPLC, is highly desirable. Solid interpersonal and communication skills a must.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements to: Human Resources Department-KB, Dept. DD-95-21, K-15-1, MS#1255, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

Schering-Plough Research Institute

Using Science For Human Advantage
Computational Molecular Biology

October 22-October 27, 1995

This course is designed for scientists with limited prior experience in computational molecular biology. The topics to be covered include: biomolecular informatics and databases, protein and nucleic acid sequence analysis and alignment, 3D protein structure analysis and prediction, molecular modeling and dynamic simulations of proteins and nucleic acids, and structure-based drug design. The workshop will consist of the in-depth theoretical lectures and intensive hands-on laboratory sessions. The course will be taught at the training facility of the North Carolina Supercomputing Center, Research Triangle Park, North Carolina.

Application Deadline-September 7, 1995. Tuition- $1,200.00. Participation is limited to 15 people.

INSTRUCTORS: Alexander Tropsha, Ph.D., Course Director, UNC-CH; Frank K. Brown, Ph.D., Glaxo-Wellcome; Iosif I. Vaisman, Ph.D., UNC-CH; David C. Richardson, Ph.D., Duke University; Wayne Litaker, Ph.D., UNC-CH

Molecular Biology Techniques
February 18-March 1, 1996

This course is designed for individuals with little or no practical experience in the techniques of gene cloning. Topics to be covered include: Basic microbiological techniques, Western blotting, screening of libraries with antibodies and nucleic acid probes, subcloning into plasmid vectors, Southern and Northern blotting, PCR techniques, and DNA sequencing. As time allows, students will also be introduced to computer analysis of nucleic acid and protein sequences.

Application Deadline-December 31, 1995. Tuition-$2,150

INSTRUCTOR: Philip Carl, Ph.D., UNC-CH

Introduction to PCR
Given by Perkin Elmer, Inc.

September 13-September 15, 1995 & November 1-November 3, 1995

The Introduction to PCR workshops will feature three days of lectures and laboratory sessions designed for scientists with little previous PCR experience. Through active participation and extensive hands-on lab work, students will gain a solid understanding of PCR methodology and the recommended procedures for successful amplification of DNA and RNA. Lecture topics will cover the basic molecular biology of the PCR reaction, sample preparation, the optimization of the PCR process, RNA PCR, quantitation of PCR products, major applications and troubleshooting. The laboratory sessions will include basic PCR reactions; PCR product visualization via gel electrophoresis; reaction optimization; and RNA PCR. The registration fee includes a 100 Reaction GeneAmp PCR Core Reagents kit valued at $225.

Application Deadline-September 1, 1995 for September Course and October 20, 1995 for November Course. Tuition-$850

INSTRUCTORS: James V. Snider, Ph.D. & John Pfeifer, Ph.D., Perkin Elmer

For further information or to apply to the Computational Biology or Nucleic Acids Workshops, Contact: Dr. Wayne Litaker, Facility Director, University of North Carolina at Chapel Hill, Program in Molecular Biology & Biotechnology, 402 Taylor Hall CB 87100, Chapel Hill, North Carolina 27599-7100, PHONE (919) 966-1738, FAX (919) 966-6821, E-Mail Address: litaker@med.unc.edu

For further information or to apply to the Introduction to PCR Workshops, Contact: Paula Molina, Perkin Elmer Training Administrator, 850 Lincoln Center Dr, Foster City, CA 94404, PHONE 1-800-874-9686, ext. 5015, FAX (415) 638-5994, E-MAIL: molinapa@perkin-elmmer.com.
Senior Research Assistant/Peptide Chemist

The Lindsley F. Kimball Research Institute, a division of the New York Blood Center, is currently seeking a Senior Research Assistant/Peptide Chemist for our Laboratory of MicroChemistry. As an integral member of our research team, the incumbent will participate in original research in peptide chemistry as well as aspects of the laboratory which synthesizes, purifies and characterizes biomolecules for researchers at the institute.

Requirements include a Ph.D. in Chemistry or Biochemistry and at least 2 years of directly related experience (or an MS with 5 or more years of experience). A solid background in peptide chemistry or solid phase synthesis and a willingness to learn automated DNA sequencing and synthesis are also essential.

This position commands a competitive salary and a comprehensive benefits package including full health coverage and liberal vacations. For immediate consideration, please send your curriculum vitae and three references to: Department JF, Human Resources, New York Blood Center, 310 E. 67th St., New York, NY 10021. Fax: (212) 570-3195. Equal Opportunity Employer M/F/D/V

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Job Opportunity Hotline: 1-800-835-0058

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Inder Verma, M.D.

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Matthew Cotten, Ph.D.

"Gene Therapy for Breast Cancer"
Cynthia Dunbar, M.D.

"Gene Transfer for Restenosis"
Victor Dzau, M.D.

"Gene Therapy for Diseases of the Lung: ARDS"
Kenneth Brigham, M.D.

"Controls of Apoptosis as Potential Targets of Gene Therapy"
Dale Bredesen, M.D.

"Gene Therapy for Neuronal Injury"
Richard Miller, Ph.D.

"Regulatory Issues"
Philip Noguchi, M.D.

WINE AND CHEESE POSTER SESSION

Travel scholarships will be offered for students, fellows, and junior faculty who are a minority, a woman, or disabled.

FOR INFORMATION AND REGISTRATION:

Arlene A. Stecenko, M.D.
Vanderbilt University School of Medicine
Center for Lung Research, T-1217 MCN
Nashville, Tennessee 37232-2650
Phone: 615/322-3412
Fax: 615/343-7448
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