The Division of Endocrinology and Metabolism at the University of California, Irvine (UCI), invites applications and nominations for a tenure-track FACULTY POSITION at the ASSISTANT PROFESSOR level. Candidates should have expertise in molecular and cellular approaches to the endocrine system. Applicants must have an M.D. or M.D./Ph.D. degree and a strong record of research accomplishment. A tenure-track position is expected to develop a successful research program. Deadline is committed to excellence in endocrinology while providing a fertile environment for interactive research at UCI and affiliated institutions.

Interested applicants should send their curriculum vitae, a statement of research interest, and names and addresses of at least three references to: Dr. Harry Koc, Chief, Division of Endocrinology and Metabolism, Department of Medicine, UCI Medical Center, P.O. Box 1490, Irvine, CA 92714-1490. UCI is an Equal Opportunity/Affirmative Action Employer.

GENETICS

ASSISTANT PROFESSOR

The University of Texas invites applications for a tenure-track position beginning in January 1993 to teach genetics, evolutionary biology, introductory biology for majors, and biological science for nonmajors. A BU-KYTOTIC. If teaching in the evolutionary biology is preferred. Ph.D. required. Prior teaching and research experience with undergraduates desirable. Send curriculum vitae, a statement of research interests, and names of references to: Dr. Stanley Rice, Chairman, Department of Human Resources, University of Texas, 401 West Kennedy Boulevard, Miami, FL 33606-1490. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR-CELLULAR NEUROBIOLO-GIST. The Neuroscience Group of the Lobo Research Institute at the Hospital, a teaching institution affiliated with the University of Ottawa, invites applications for two appointments at the ASSISTANT PROFESSOR level. Candidates should have a Ph.D. or M.D. or three or more years of postdoctoral training and demonstrated excellence, originality, and productivity in molecular biology applied to neurobiology. Our research program is multidisciplinary and focuses on CNS development, ion channel and receptor function, neural circuitry regulating body fluid and cardiovascular homeostasis, mechanisms governing neuronal/glial responses to ischemia. At least one appointment will be in the area of signal transduction, but outstanding scientific accomplishments in other areas of neuroscience will be considered. In accordance with Canadian immigration requirements, this advertisement is directed first, but not solely, to Canadian citizens and permanent residents.

We support an Equal Opportunity Employment and a smoke-free environment.

VISITING FACULTY POSITION

The Faculty of Biological Science at the University of Tulsa has openings for up to three VISITING ASSISTANT OR ASSOCIATE PROFESSOR positions in the areas of general biology, cellular biology, anatomy and physiology, and genetics for both majors and non-majors. The salary is competitive and the 1-year appointment begins August 1, 1992. The department has a faculty of 16 and offers B.S., M.S., and Ph.D. degrees.

The University of Tulsa is a private, comprehensive university with a strong commitment to teaching and research. Applicants should have a Ph.D. degree and teaching experience. Application should be submitted: three letters of recommendation to: Dr. Richard I. Reeder, Faculty of Biological Science, The University of Tulsa, 600 South College Avenue, Tulsa, OK 74104.

The University of Oklahoma Designated as an Affirmative Action/Affirmative Action Employer, is committed to diversifying its faculty and staff. Members of underrepresented groups (people of color, people with disabilities, women, veterans, etc.) are strongly encouraged to apply.
Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Cell Differentiation**
*T.R. Breitman, PhD*

The modification of proteins by retinoids and other ligands is being studied with a special focus on the regulation of cell differentiation and growth by these modifications. Experience in molecular biology, protein purification, and protein chemistry preferred. This position may be filled at the Senior Staff Fellow (assistant professor equivalent) level. Laboratory of Biological Chemistry (OE-14), NCI, Building 37, Room 5D02.

**Developmental and Molecular Pharmacology**
*Douglass E. Brennerman, PhD*

The role of neuropeptides and growth factors mediating neuron-glial interactions during development is studied in cell cultures derived from the central nervous system. The focus of the research is on the mechanism of action and developmental expression of vasoactive intestinal peptide, cytokines and a neuronal survival factor recently discovered by our group. Experience in basic biochemical techniques and molecular biology is desirable. Laboratory of Developmental Neurobiology (OE-14), NICHD, Building 36, Room 2A21.

**Molecular Neurobiology**
*David C. Klein, PhD*

The developmental and neural regulation of gene expression in the pineal gland are being studied. Studies focus on serotonin N-acetyltransferase, hydroxyindole-O-methyltransferase, and other pineal-specific gene products involved in regulating melatonin synthesis. This position has excellent long-term potential for creative and productive investigators. Laboratory of Developmental Neurobiology (OE-14), NICHD, Building 36, Room 4A07.

**Molecular Neuropharmacology**
*David R. Sibley, PhD*

The cellular and molecular biological characteristics of dopamine, serotonin and other neurotransmitter receptors are being investigated. Cell biology projects include studying biochemical mechanisms of receptor-effector coupling, G protein interactions, and receptor regulation in clonal cell lines. Molecular biology projects involve cloning novel receptor subtype cDNAs/genes, analysis and characterization of receptor/gene structure, and regulation of gene expression in normal and pathophysiological states. Experimental Therapeutics Branch (OE-14), NINDS, Building 10, Room 5C108.

**Sexual Development**
*Dean Hamer, PhD*

The molecular biology and genetics of sexual differentiation of the brain are being studied in organisms as diverse as *Drosophila*, rats and humans. Projects include isolation of sexual behavior mutants and sexually dimorphic mRNAs and linkage analysis of human sexual orientation. Applicants with a background in molecular biology, behavioral science or human genetics are invited to apply. Laboratory of Biochemistry (OE-14), NCI, Building 37, Room 4A13.

**Signal Transduction/Gene Expression During Aging**
*George S. Roth, PhD/James A. Joseph, PhD*

The possible mechanisms for age changes in G protein coupled inositol-1,4,5-triphosphate (IP$_3$) formation in parotid and brain; age changes in D$_2$ receptor gene expression in striatum; cell death and resistance to oxygen radical damage; and signal transduction deficits in Alzheimer's disease are being examined. Laboratory of Cellular and Molecular Biology (OE-14), NIA, Francis Scott Key Medical Center, Baltimore, MD 21224.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board’s POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are “7,Even,1”. When connected to NIH, type in “vr100” at the connect message, “F5E” at initial, and “Ajl1” at account.

Those interested in receiving information on other postdoctoral opportunities in NIH research laboratories, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree 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.
RESEARCH INVESTIGATOR

Join Sterling Winthrop and be a part of a team dedicated to the enhancement of scientific discovery. Sterling Winthrop Pharmaceuticals Research Division is the worldwide pharmaceutical research and development organization of Sterling Winthrop Inc. We currently seek a Protein Chemist to join our interdisciplinary team at our Great Valley, PA facility.

The successful candidate will develop, implement and validate novel and established methods for the characterization of protein conjugates for FDA filings. This position will also interact within a research group to develop novel methodologies in support of discovery and development projects.

The ideal candidate will have a Ph.D. degree and 2 years experience in biomolecule characterization. Demonstrated proficiency and innovation in protein characterization methods (edman degradation, amino acid analysis, mass spectrometry, peptide mapping) is expected. Experience in GMP/GLP procedures, carbohydrate structural analysis or the biophysical characterization of macromolecules is a plus.

At Sterling Winthrop, you'll enjoy a highly competitive salary and benefits package. For confidential consideration, forward your resume and salary requirements to:

STERLING WINTHROP Pharmaceuticals Research Division
A Division of Sterling Winthrop Inc.
A Subsidiary of Eastman Kodak Co.

Human Resources
GV-77-92
Sterling Winthrop PRD
9 Great Valley Parkway
Malvern, PA 19355

Equal Opportunity Employer, M/F/D/V

POSITIONS OPEN

FACULTY POSITION

MARINE ECOLOGIST. The University of Oregon (UO) invites applicants for a tenure-track faculty position in the Department of Biology at the level of ASSISTANT PROFESSOR. The successful candidate will be based at the University's Oregon Institute of Marine Biology (OIMB) in Charleston and will interact with faculty and students at the main campus in Eugene.

We encourage applicants whose research centers on marine systems at any of the following levels: (1) interactions between or among marine organisms, e.g., symbioses, community ecology, or ecosystem dynamics; (2) processes controlling life histories of marine organisms. We are most interested in candidates who combine empirical and experimental approaches with quantitative, theoretical and/or molecular techniques.

Applicants should be able to interact closely with other faculty members at OIMB who have strong research programs in aspects of microbial physiology and ecology, invertebrate biochemistry, physiology and evolution, and larval biology. Applicants will be expected to establish an active research program, advise graduate students, and teach undergraduate and graduate courses. Postdoctoral experience is expected. Preference will be given to candidates with an established record of outstanding research and a commitment to excellence in undergraduate and graduate education.

Please submit curriculum vitae and a statement of research interest and have four letters of recommendation sent to: Chair, Marine Biology Search Committee, OIMB, University of Oregon, Charleston, OR 97420. Closing date is 1 August 1992. The UO is an Affirmative Action/Equal Opportunity Institution committed to cultural diversity.

UNIVERSITY OF TORONTO
CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES

Applications are invited for two positions in a recently established neurodegenerative disease research centre with emphasis on Alzheimer's disease. Ph.D.'s or M.D.'s at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level are sought to join this team of seven P.I.'s. Candidates must have expertise in one of the following areas of neurobiology: transgenic models, biochemically oriented molecular biology, protein structure, or gene regulation. Start-up funds provided; successful candidates must initiate independent and original research programs.

The University of Toronto encourages applications from qualified men and women, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Send curriculum vitae, a research statement and three letters of reference prior to August 1992 to: Dr. D. B. McLachlan, Centre for Research in Neurodegenerative Diseases, Tana Neuroscience Building, 6 Queen's Crescent West, Toronto, Ontario, Canada M5S 1A8.

FACULTY POSITIONS IN CELL, MOLECULAR AND STRUCTURAL BIOLOGY

Applications are invited for tenure-track positions in the Department of Cell, Molecular and Structural Biology at Northwestern University Medical School. ASSISTANT to FULL PROFESSOR applicants must have a Ph.D., M.D., or equivalent degree, with research experience in cell, molecular, or structural biology. Applicants will be screened with respect to their ability to carry on vigorous independent research, and to participate in the various teaching programs administered by the department. Candidates whose research interests include developmental biology, biochemistry, and structural biology are encouraged to apply, although outstanding applicants with research interests in other areas of molecular biology will be considered. Send complete curriculum vitae and a brief description of research interests by 15 September 1992 to: Dr. Rex Chisholm, Chairman, Search Committee, Department of Cell, Molecular and Structural Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.
APPLICATIONS ARE INVITED FOR THE FOLLOWING POSITIONS:

**PHYSIOLOGICAL, ASSOCIATE PROFESSOR (search track)**

- **Reproductive Endocrinology:**
  - Ph.D. or M.D. degree
  - At least 2 years of postdoctoral experience
  - Opportunities available for independent research in one of two areas: 1) reproductive endocrinology (theoretical/experimental approaches); 2) analysis of molecular mechanisms of transmitter release.
  - Submit complete curriculum vitae, along with three letters of reference to: James T. Stull, M.D., Ph.D., Department of Physiology, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040, telephone: 214-688-6849, FAX: 214-688-2974. An Equal Opportunity/Affirmative Action Employer.

**ASSISTANT/ASSOCIATE PROFESSOR NEUROBIOLOGY COLUMBIA UNIVERSITY**

Applications are invited for three tenure-track positions in the Center for Neurobiology and Behavior, at Columbia University, College of Physicians and Surgeons. Applicants must have a Ph.D. or M.D. degree and at least 2 years of postdoctoral training. Successful candidates will be expected to establish and maintain an independent research program in one of the following areas: 1) computational neuroscience (theoretical/experimental approaches); 2) analysis of the molecular mechanisms of transmitter release; 3) analysis of the function and control of transcription factors in the nervous system. Submit complete curriculum vitae, addresses of three references, and a summary of research objectives to: Search Committee, Center for Neurobiology and Behavior, 722 West 168 Street, New York, NY 10032. An Equal Opportunity/Affirmative Action Employer.

**CELL PHYSIOLOGIST/MOLECULAR BIOLOGIST**

The Department of Physiology and Biophysics at the University of Texas Medical Branch (UTMB) at Galveston invites applications for tenure-track positions at the ASSISTANT, ASSOCIATE AND FULL PROFESSOR LEVELS. Candidates using state-of-the-art methods to study cellular and subcellular physiology are especially encouraged to apply. Candidates must have Ph.D. and/or M.D. degrees. Salaries and start-up funds are highly competitive. The department offers a stimulating scientific environment with major research strengths in the study of membrane transport systems and is deeply committed to high-quality research and teaching. Send complete curriculum vitae, including publications list, brief statement of future research plans, and names and addresses of three references to: Dr. Simon A. Lewis, Head of Search Committee, Department of Physiology and Biophysics, University of Texas Medical Branch, Galveston, TX 77555-0641. UTMB is an Equal Opportunity/Affirmative Action Employer M/F/H/V. UTMB hires only individuals authorized to work in the United States.

**PHARMACOLOGY—UNIVERSITY OF PENNSYLVANIA**

The Department of Pharmacology is recruiting four to six additional faculty to the tenure track at the rank of ASSISTANT, ASSOCIATE or FULL PROFESSOR. Investigators with interests in the broad areas of ANALYTICAL/MOLECULAR PHARMACOLOGY and CELLULAR/MOLECULAR PHARMACOLOGY will be appointed. Examples of potential areas of interest include: 1) structure and function of biomolecules; 2) enzymology; 3) drug delivery and formulation; 4) molecular modeling; 5) signaling; 6) and directed mutagenesis. Send complete curriculum vitae, along with three letters of recommendation to: Search Committee, Department of Pharmacology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-0084. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

**WYETH-AYERST RESEARCH WE'RE BUILDING ON OUR SUCCESS OPPORTUNITIES IN CENTRAL NERVOUS SYSTEM PHARMACOLOGY**

Wyeth-Ayerst Laboratories is a division of Fortune 100 American Home Products Corporation, a leading manufacturer and marketer of health care products with multi-billion dollar annual sales and an impressive record of growth and profitability.

As a GLOBAL research-based pharmaceutical company, we are committed to helping people lead healthier lives through innovative pharmaceutical and nutritional products. It is from this commitment and position of strength that we move forward with a major expansion of our research and development activities. Current expansion in our Cell Biology and Neurochemistry Laboratories has resulted in the following opportunities.

**Ph.D. SCIENTISTS**

**SIGNAL TRANSDUCTION**

This group is responsible for bringing second messenger expertise (G-proteins, DAG/phosphoinositide turnover) to bear on the study of neurotransmitter receptor function and effector coupling in neuronal cell lines. These studies will be an integral part of our increasing research effort in stroke and neurodegeneration. We are seeking a Ph.D. Scientist with 5+ years of experience in cell signal transduction (receptor/effector coupling). This individual will conduct functional pharmacological studies in our mechanism-based CNS programs and will provide Core Group support for programs in other divisions.

**STROKE/NEURODEGENERATION LABORATORY**

We are seeking a Ph.D. Scientist with 3+ years of postdoctoral experience in assessing potential neuroprotective agents in vitro and in vivo models of neurodegeneration. Research experience with noninvasive imaging assessment techniques of cerebral ischemia is preferred to facilitate our stroke/ neurodegeneration research program.

**INTRACELLULAR PROTEIN PROCESSING**

This group studies labile and permanent changes in Central Nervous System proteins in response to pharmacologicals and in stroke/ischemia/neurodegeneration. The research focus will be phosphorylation/dephosphorylation by kinases/phosphatases and both receptor and non-receptor forms of protein tyrosine kinases. We are seeking a Ph.D. Scientist with 5+ years of experience in intracellular protein processing. Research experience in post-translational processing/membrane insertion of proteins is preferred to facilitate our research in the field of Alzheimer’s disease and other neurodegenerative diseases.

**B.S./M.S. PHARMACOLOGISTS**

We seek Pharmacologists with 0-5 years experience to provide technical support for our Principal Scientists in various groups. Our Signal Transduction group requires experience in cell culture, second messenger biochemical assays, cyclic nucleotide measurements and phosphoinositol hydrolysis. Our Neurochemistry Laboratory requires experience in ligand/receptor pharmacology and general neurochemical techniques (HPLC, radioenzymatic biochemical techniques). Our Intracellular Protein Processing group requires experience in general protein biochemistry, cell culture, enzymatic assays and protein kinase measurement.

The Wyeth-Ayerst Princeton, New Jersey research laboratory is in a location renowned for its excellent quality of life and easy access to the cultural, educational and recreational resources of both New York City and Philadelphia. Please respond by sending your resume to: Employment Supervisor, Wyeth-Ayerst Research, Dept. CNS, 8000, Princeton, NJ 08543-8000. An Equal Opportunity Employer, M/F/D/V.
Alcohol Metabolism Fellowship.

The Unit of Pharmacokinetic Studies, Laboratory of Clinical Studies, invites qualified individuals to apply for a postdoctoral fellowship to study the effects of ethanol withdrawal on drug-metabolizing enzymes. Basic studies of enzyme activity and clinical studies involving altered pharmacokinetics of therapeutic agents are ongoing. A background in biochemistry or pharmacology and experience with in vitro enzyme assays and/or HPLC is preferred.

Individuals with less than three years postdoctoral experience may apply by submitting a curriculum vitae, three letters of reference and a statement of research interests to Ms. Kathleen Harnathy, Personnel Management Branch.

National Institute on Alcohol Abuse and Alcoholism
Alcohol, Drug Abuse, and Mental Health Administration
Building 31, Room 1858, 9000 Rockville Pike Bethesda, MD 20892
Equal Opportunity Employer

SENIOR SCIENTIST

Chiron Corporation is a leading East Bay-based biotechnology company developing products to diagnose, prevent and treat serious human disease. We currently have an opening for a Senior Scientist.

You will optimize the expression of recombinant therapeutic and diagnostic proteins in bacteria. You will also develop host/vector expression systems and genetic screens while collaborating on medium and culture condition optimization with fermentation development.

Requires a PhD and 5+ years' pharmaceutical/biotechnology experience. Strong background in microbial physiology and genetics, and experience with heterologous protein expression, are necessary. Interest in secretory protein processing and a creative, critical scientific approach to microbial expression is desired. Individual must be highly self-motivated and possess management and team leadership skills.

Chiron offers a competitive salary and benefits package. For immediate consideration, please send your resume to Chiron Corporation, Human Resources Department, Box 92-181, 4560 Horton Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.

THE DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND REPRODUCTIVE SCIENCES
UNIVERSITY OF PITTSBURGH
SCHOOL OF MEDICINE

The Department of Obstetrics, Gynecology and Reproductive Sciences at the University of Pittsburgh has the following full-time faculty positions available:

Assistant Professor of Obstetrics and Gynecology: A position is available for an individual with a basic science background studying the biochemistry and molecular biology of endothelial cell responses. This individual should have extensive laboratory experience, be able to work independently and be competent to train fellows and graduate students. Salary will be commensurate with experience, training, and achievements.

Assistant Professor of Obstetrics and Gynecology: A position is available for a basic scientist with a background in molecular biology. The individual should be experienced in the molecular biology of connective tissue and be interested in participating in studies related to reproductive physiology. Experience and the ability to work independently is required; as is the willingness and ability to teach and train postdoctoral fellows and graduate students. Salary will be commensurate with experience, training, and achievements.

Professor of Obstetrics and Gynecology: Two positions are available for basic scientists experienced in the physiology of pregnancy and parturition. Individuals should have a clear record of experience in working with groups of researchers, have a national reputation, and should be willing and able to train graduate students and postdoctoral fellows.

Send inquiry and curriculum vitae for any of the above positions to:

James M. Roberts, M.D.
Professor and Vice-Chairman, Research Department of Obstetrics, Gynecology and Reproductive Sciences
Magee-Womens Hospital
300 Haliet Street
Pittsburgh, PA 15213–3180

The University of Pittsburgh is an equal opportunity, affirmative action employer.
NRC - Canada's top R&D organization - helps its industry partners become stronger global competitors. Currently, NRC's Institute for Biological Sciences is looking for those rare people who can help further our record of excellence.

The mission of the Institute for Biological Sciences is to perform frontier research focused primarily on areas of mammalian biosciences that require a multidisciplinary approach, hold good potential for application, and are oriented towards Canadian social, industrial and economic development.

**Director General**

(OTTAWA, ONTARIO)

Reporting to the Vice-President, Biotechnology, the Director General will provide leadership and direction and will be responsible for management of the Institute with respect to its mandated activities and effective operation. The incumbent will manage three research sections and an administrative group consisting of approximately 140 scientists, technical officers and administrative personnel. The Director General will also be responsible for a budget of $12 million, including salaries. He/she will be expected to form linkages and encourage collaboration with external organizations, both nationally and internationally. As a senior NRC manager, the Director General will also participate in the strategic planning of NRC.

Candidates must have a Ph.D. in a discipline related to the activities of the Institute, as well as extensive experience as a research scientist in University, Industry or Government and extensive experience in working through individuals and groups, as a manager, to accomplish organizational objectives involving the planning, execution and review functions within an R&D environment. Knowledge of both the English and French languages is required. A security screening will also be required.

**SALARY RANGE:** From $81,800 to $101,400 per annum.

Apply in writing, before July 29, 1992, giving complete details of education and experience to: The Recruitment and Staffing Section, National Research Council of Canada, Ottawa, Ontario, K1A 0R6. In reply, please quote BS-92-01.5Cl.

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NRC - Canada's top R&D organization - helps its industry partners become stronger global competitors. Currently, NRC's Institute for Biological Sciences is looking for those rare people who can help further our record of excellence.

**Research Officers**

(OTTAWA, ONTARIO)

The Institute for Biological Sciences performs frontier research focused on areas of mammalian biosciences that require a multidisciplinary approach, hold good potential for application, and are oriented towards Canadian social, industrial, and economic development. The Institute has advanced equipment and facilities and provides for an integrated multidisciplinary approach in the areas indicated below.

The Structural Immunobiology Section invites candidates with a strong interest in the chemistry or biology of cell surface carbohydrates who are interested in applying the techniques of molecular biology to novel problems in glycobiology. The Protein Structure and Design Section invites candidates in two specific areas. Trained crystallographers are required with demonstrated abilities for solving protein structures. Also required are candidates with a background in the use of structural data bases, bioinformatics and computer modelling in protein and peptide research.

The Institute invites applications for up to three staff scientific positions, with a term of up to five years. Interested individuals must possess a Ph.D. in a relevant field. Successful applicants will be encouraged to compliment existing projects.

Applicants should submit a resume and a brief (five page) research proposal outlining realistic objectives and resources requirements for research in any of the above mentioned areas prior to July 30, 1992 to: The Recruitment and Staffing Section, National Research Council of Canada, Ottawa, Ontario, K1A 0R6. In reply, please quote reference number BS-92-00.5Cl.
**University of London**

**Wye College**

Department of Biochemistry and Biological Sciences

SERC and AFRC Postdoctoral Research Associateships in PLANT MEMBRANE TRANSPORT BIOCHEMISTRY Applications are invited for two Postdoctoral Associateships in the area of plant and fungal membrane transport. The posts are funded by the British Council and Engineering and the Agriculture and Food Research Council on the RATA scale (£12,129 to £19,320 per annum inclusive) plus living costs. Both posts are available starting 1 September 1992, in the first instance for up to 2 years. The successful candidates will join an interdisciplinary group at Wye College and the University of Kent, in nearby Canterbury, engaged in structural and functional studies of ion channels and H+-coupled transporters. One project, funded by the SERC, focuses on characterizing K+ channels using single-channel recording techniques and incorporating channels in planar bilayers. The second project, funded by the AFRC, is directed to the mechanisms and control of NO3- transport and will involve applying intercalating recording techniques—including voltage clamping and ion-selective electrodes—as well as radiocarrier flux methods. Some prior experience in these (and other) related techniques would be an advantage. For further details, contact Dr. Michael F. Bresler, phone: 0223 821141; overseas prefix 44-223 and the number. There is no closing date; applications will be considered at the potential of: (i) receipt, (ii) curriculum vitae, list of publications and the names of three individuals from whom letters of reference may be sought, and (iii) the possibility of convening Dr. Michael F. Bresler and the appropriate post holder or University of Kent. Please apply to: Wye College, Wye, Kent TQ25 5AH, England. Wye College is an equal opportunities employer.

**HERMANN-VON-HELMHOLTZ-PROGRAMME**

The government minister for research and technology is granting, within the framework of the promotional programme of NEURO-BIOLOGY Research grants for a limited time for, in particular, qualified German young scientists in the sector of neurobiology and who, after at least a one year stay abroad, wish to return to Germany. The research grant will be awarded, as a rule, for 2 years. It comprises in position on the basis of BAT II a/b and an inclusive lump sum for appropriate materials. The awarding of the research grant will be carried out on the basis of a selection board procedure according to scientific factors. It is returned to the same institute where the candidate has been working in Germany before moving abroad is not possible for this grant. A leaflet concerning the research grant and application form can be obtained from the department responsible at: Naturwissenschaftliches und Medizinisches Institut at der Universität Tübingen in Reutlingen, Gustav-Werner-Straße 3, D-74410 Reutlingen Telephone: 07121/3198-0, Telefax: -16

**POSITIONS OPEN**

The Fogarty International Center (FIC), National Institutes of Health, Public Health Service, Bethesda, Maryland, is recruiting for the position of PROGRAM OFFICER FOR BIODIVERSITY, GS-13/14 ($46,210 to $80,080) per year depending upon qualifications. Interested and qualified applicants will be responsible for all institutional and other award programs related to biodiversity administered or supported by the Fogarty International Center. Applicants should have training and experience in a scientific discipline related to biodiversity. For further information including qualifications requirements, contact: Dr. William K. Rice, Officer, FIC, at: 301-496-6425; FAX: 301-402-1135. Applications must be received by 22 June 1992. U.S. citizenship required. NIH is an Equal Opportunity Employer.

**CHAIRPERSON DEPARTMENT OF PREVENTIVE MEDICINE AND COMMUNITY HEALTH THE UNIVERSITY OF TEXAS MEDICAL BRANCH GALVESTON, TEXAS**

Applications are invited for the position of Professor and Chair of the Department of Preventive Medicine and Community Health (PM/CH) in the School of Medicine. The University of Texas Medical Branch (UTMB) is a modern health sciences center consisting of Schools of Medicine, Nursing, Public Health, and Graduate Biomedical Sciences. Also on campus are The Institute for Medical Humanities, The Marine Biomedical Institute, and the International Center for the Spore. UTMB has a significant clinical component consisting of seven hospitals, employs 8400 people, and has 2200 students enrolled. A faculty of 300 is involved in the teaching, research, and service roles of the institution. UTMB is committed to the development of a Department of PM/CH with strength in teaching, scientific inquiry, and services which promote health and well-being. The successful candidate should be supportive of the mission of preventive medicine, should have an interest in developing programs which focus on analysis of problems in health and medical care, and will be expected to interface this department with other the clinical departments and schools on campus and in the surrounding area. Candidates must have a distinguished record of scholar- ship and professional achievement and should demonstrate experience, strong leadership qualities, and administrative ability. Curriculum vitae and names of three or more references should be included with a letter of application. Review of applications will begin 30 May 1992. Send applications to: Dr. Carl C. Gentry, Chair, PM/CH Search Committee, Department of Pharmacology and Toxicology J31, UTMB, Galveston, TX 77550.

UTMB is an Equal Opportunity/Affirmative Action Employer M/F/V/H. UTMB hires only individuals authorized to work in the United States.

**FACULTY POSITION PROGRAM IN PROTEIN STRUCTURE AND DESIGN UNIVERSITY OF MICHIGAN**

A search is being reopened for a tenure or tenured-track position (rank open) associated with the Program in Protein Structure and Design. The academic appointment will be in the Department of Chemistry, with a joint research appointment in the Biophysics Research Division. We seek an individual who will interact and complement the existing structure groups in the program (x-ray crystallography; EPR, NMR, and vibrational spectrosopies; electron microscopy; theoretical and computational). The junior candidates must have an internationally recognized program, and junior candidates must provide evidence of ability to develop a strong research program oriented around modern theoretical approaches to and applications of predicting protein structure and function. Teaching duties will be associated primarily with the Department of Chemistry. Interested candidates are invited to submit a statement of research and teaching interests, publication list, a vitae giving qualifications, professional accomplishments, and future research plans and arrange for three letters of reference to be submitted before September 1992. To: Professor Robert L. Kuczewski, Chairman, Department of Chemistry, The University of Michigan, Ann Arbor, MI 48109-1040. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

**DIRECTOR FOR GLOBAL CHANGE COORDINATION**

Joint Oceanographic Institutions Incorporated (JOI) is seeking a senior-level scientist to head a community-based, multi-disciplinary, collaborative effort in global change research and planning among U.S. and international ocean global change programs.

JOI will provide the ocean science community with a central focus for information on research opportunities; analyze long-term science requirements and facilities available domestically and abroad; plan for global change; produce newsletters and brochures for policy-makers and the public; provide material in response to requests for information from policy-makers, the media and the public; and coordinate tasks at the request of NSF, other agencies, and science planning committees, both national and international.

The candidate is expected to be supported by the National Science Foundation (NSF) under terms of a cooperative agreement between JOI and the NSF. JOI is a consortium of ten U.S. academic oceanographic institutions established to bring their collective capabilities to bear on large oceanographic research projects. The consortium, a nonprofit corporation, acts as a coordinating body and management entity for its member institutions and the academic community.

Qualifications necessary for the director's position include a Ph.D. in oceanography or related biological or earth science and a working knowledge of the academic community and federal governmental agencies. Familiarity with the international scientific community, related industries, and a broad understanding of the organizational, management, and writing skills is essential.

Please respond in writing to: Joint Oceanographic Institutions Incorporated, Personnel Office—GC, 1755 Massachusetts Avenue, N.W., Suite 800, Washington, DC 20036-2102.

JOI is an Equal Opportunity Employer, M/F/V/H.

**DIVISION HEAD, DIVISION OF NEPHROLOGY AND HYPERTENSION**

We are seeking a distinguished PHYSICIAN SCIENTIST who is Board-certified in internal medicine and nephrology to provide dynamic scientific and clinical leadership to the Division of Nephrology and Hypertension at the State University of New York (SUNY) at Stony Brook. The division comprises 11 physician scientists, two Ph.D.'s., and four fellows who are stationed at Stony Brook and the Northport Veterans Administration (VA) Hospital. The division's faculty is engaged in NIH- and VA-funded research activities as well as active clinical programs. Please send correspondence about this position to: Dr. Barry Collier, Division of Hematology, SUNY at Stony Brook, Stony Brook, NY 11794-8151. SUNY at Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer.

**VICE PRESIDENT FOR RESEARCH AND DEAN OF GRADUATE SCHOOL**

Applications and nominations are invited for the dual position of vice president for research and dean of the graduate school at the University of Florida. Successful candidates will have significant experience and demonstrated success in university-based research environments. The doctoral or equivalent degree in an appropriate area of specialization and relevant experience are necessary.

Applications should include a current résumé and names, addresses and telephone numbers of at least three references. Nominations and applications should be submitted not later than 15 September 1992 to: Dr. Kaye Ohm, Chair, Vice President Search Committee, Office of the President, 236 Tigert Hall, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

**POSTDOCTORAL POSITION**

To study molecular, immunochemochemical and biochemical properties of neuroendocrine regulation in the inner ear. Candidates should possess a Ph.D. or M.D. degree. Experience in molecular and cell biological techniques desired. Reply to: Dr. Kyle E. Raray, University of Florida Health Science Center, Department of Anatomy and Cell Biology, 2000 W. 2nd Ave., Box 100397, Gainesville, FL 32610. Telephone: 404-392-3420, FAX: 404-392-3305.
NRC - Canada's top R&D organization - helps its industry partners become stronger global competitors. Currently, NRC's Institute for Biological Sciences is looking for those rare people who can help further our record of excellence.

**Group Leader**  
*(Ottawa, Ontario)*

The Institute for Biological Sciences requires an experienced scientist to lead a group in protein crystallography and molecular modelling. The appointment is seen as a pivotal position at the interface of structure-function determination and the Institute's other groups involved in protein engineering. The successful candidate will be expected to formulate a research strategy in molecular modelling and structure determination that builds on existing programs in the group and the Institute's other sections. Currently this work includes protein engineering, cathepsins, PTH B. Thuringiensis toxins, xylanase enzymes, molecular modelling of carbohydrate antigens and antibody engineering of their corresponding binding sites.

Applicants must possess a Ph.D. in Chemistry, Physics, Biochemistry or any other related field as well as extensive post-doctoral experience in the field of protein crystallography and/or molecular modelling of proteins. A strong background in structure and function of proteins, knowledge of the use of modelling methods, and a general knowledge of modern computer systems are also required.

**SALARY RANGE:** Commensurate with qualifications.

Résumés should be forwarded prior to June 30, 1992, to: The Recruitment and Staffing Section, National Research Council of Canada, Ottawa, Ontario, K1A 0K6. In reply, please quote reference number B9-92-O0.GM

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**A TIME FOR ACHIEVEMENT**

The recent opening of the new Glaxo Inc. Girolami Research Institute, located in Research Triangle Park, NC, represents Glaxo's continued commitment in the pharmaceutical industry to the discovery of drugs for unmet patient needs. Scientists engaged in Glaxo's expanding research and development programs at the Center have a premier facility in which to work.

The expansion of our Nuclear Magnetic Resonance Group, within the Department of Structural and Biophysical Chemistry, has created immediate openings for the following professionals.

**SR. SCIENTIST**

The selected individual will work closely with biologists and medicinal chemists in the discovery of novel therapeutic entities for the treatment of cancer, inflammation or metabolic diseases. This Ph.D. level position requires previous post-doctoral experience and proven skills in structural determinations of proteins or nucleic acids using multi-dimensional/multi-nuclear NMR methods. A strong physical sciences background with a working knowledge of nuclear spin physics is desired.

Please refer to job #9141-SSSC on all resumes.

**POSTDOCTORAL FELLOW**

The selected individual will be responsible for methods developed and/or structure determination of macromolecules considered to be innovative targets for pharmaceutical intervention. We seek candidates with graduate training and interests in multi-dimensional/multi-resonance NMR methods and other NMR applications for structural studies.

Please refer to job #9141-PDSC on all resumes.

Our state-of-the-art Structural and Biophysical Chemistry Department offers a stimulating, collaborative environment among the established NMR, crystallography, computational, protein chemistry and mass spectrosopy groups. Our working environment includes Bruker AMX-600 and AMX-500 NMR spectrometers upgraded for triple-resonance experiments, an extensive computing network with an SGI-3800XT computer server, SGI, and access to the Compaq-220 and Cray Y-MP at the nearby North Carolina Supercomputer Center.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork, and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume, INDICATING THE CORRESPONDING JOB # and salary history to Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

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**Glaxo Inc.**
RESEARCH SCIENTIST
Pharmacokinetics and Drug Metabolism

Sphinx Pharmaceuticals Corporation is a rapidly growing company dedicated to the discovery and development of novel therapeutics for human disease based on interactions with key intracellular enzymes involved in signal transduction pathways.

We currently have an opening for a Research Scientist in our Pharmacokinetics and Drug Metabolism group. The successful candidate should have a Ph.D. in pharmacokinetics, biochemistry, or a related field with at least 1-3 years' experience conducting preclinical/clinical pharmacokinetic studies. Experience with bioanalytical assay development using HPLC and GC desirable.

Sphinx Pharmaceuticals offers competitive compensation and comprehensive benefits as well as an attractive relocation policy. We are located in the Research Triangle area of North Carolina which offers excellent living conditions and outstanding schools. For confidential consideration, please forward your curriculum vitae, list of publications and names of three references, to: SPHINX PHARMACEUTICALS CORPORATION, Position # 179, P.O. Box 52330, Durham, NC 27717. An Equal Opportunity Employer.

SPHINX PHARMACEUTICALS CORPORATION

UNIVERSITY OF CALIFORNIA, IRVINE
COLLEGE OF MEDICINE
DEPARTMENTS OF PSYCHIATRY AND BIOLOGICAL CHEMISTRY
HUMAN MOLECULAR GENETICS: ASSISTANT/ASSOCIATE/FULL PROFESSOR

The Department of Psychiatry has an immediate opening for a tenure or tenure track faculty position. We are seeking individuals who emphasize the application of molecular genetics/molecular biological approaches to understanding inherited neurodegenerative or neuropsychiatric disorders. However, outstanding applicants in any area of human genetics will be considered. The successful applicant will have a joint appointment in the Departments of Psychiatry and Biological Chemistry which, in conjunction with two other departments, participates in a multidisciplinary Graduate Program in Molecular Biology, Genetics and Biochemistry. This individual will also play an important role in helping to develop a major Human Genome effort at U.C. Irvine. The appointment will be made at the Assistant, Associate or full Professor level, depending upon background and qualifications.

Candidates should have a Ph.D. or M.D., at least two years postdoctoral experience and should have demonstrated excellence and productivity in research. Applications should include a cover letter, curriculum vitae, a statement of research interests and the names and addresses of three people who can be contacted for letters of reference. Applications should be sent to: John J. Was-muth, Chair, Psychiatry/Biological Chemistry Search Committee, Department of Biological Chemistry, College of Medicine, D240 Med Sci I, University of California, Irvine, CA 92717.

UCI is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.

THE AUCKLAND UNIVERSITY
NEW ZEALAND
SENIOR LECTURESHIP (NON-MEDICAL) IN ANATOMY
Department of Anatomy
School of Medicine
Vacancy UAC 153

The vacancy is at the Senior Lecturer (Non-Medical) level for a person experienced in cell and tissue biology. The Department of Anatomy is currently seeking funds for the purchase of a confocal laser scanning microscope and the appointee would have as a prime responsibility the management and direction of the confocal unit and the associated computer graphics facility.

Candidates are expected to have an appropriate postgraduate qualification and teaching experience in cell and tissue biology. They should have a proven record of research in an area of cell and tissue biology, and well developed skills and experience in confocal laser scanning microscopy and computer imaging technology. The successful applicant must be qualified to assume responsibility for the academic direction, supervision and development of confocal microscopy and the associated computer graphics facility in the School of Medicine.

Commencing salary will be established within the range of NZ$22,000–NZ$28,000 per annum.

Applications and supporting documentation should be forwarded to: Dr. Peter W. Baas, Department of Anatomy, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706.

POSTDOCTORAL POSITION

Available immediately to study the mechanisms involved in the wide variety of morphological and biochemical techniques. Principal interests in the laboratory include the mechanisms by which axonal and dendritic microtubules are organized and how they contribute to the fundamental polarity of the neuron. Send curriculum vitae and three letters of recommendation to: Dr. Peter W. Baas, Department of Anatomy, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706.

POSTDOCTORAL POSITION IN MOLECULAR IMMUNOLOGY

To study somatic mutation of immunoglobulin genes in B lymphocytes. Research will focus on identifying DNA sequences that target hypermutation to antibody and on evaluating how mutations should be part of a strong background in molecular biology and immunology. Please send curriculum vitae and three letters of recommendation to: Dr. P. J. Gearhart, Department of Biochemistry, Johns Hopkins School of Medicine, 615 North Wolfe Street, Baltimore, MD 21205. Equal Opportunity Employer.

POSTDOCTORAL position available to study androgen-dependent gene expression and factors that interact with receptor to confer transcriptional specificity. Regulation of the mouse sex-determining (Slp) gene is studied by transfection, protein-DNA binding, and in transgenes. Knowledge of molecular biological techniques is required; experience in protein biochemistry is preferred. Send curriculum vitae and names of three references to: Diane M. Robins, Department of Human Genetics, University of Michigan Medical School, Medical Science II 4708, Ann Arbor, MI 48109-0618. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately at the University of California, San Francisco, in the laboratories of Dr. Susan Fisher and Dr. Caroline Damsky to study human placental (trophoblast) development. Previous experience in immunoregulation techniques and in situ hybridization required. Some experience in other molecular techniques desirable. Send curriculum vitae and three letters of recommendation to: Dr. Susan Fisher or Dr. Caroline Damsky, HSW 604, University of California, San Francisco, CA 94143-0512.

An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

A POSTDOCTORAL position is available from 1 September 1992 (negotiable) to work with Drs. Barry Halliwell and Carroll Cross, studying the mechanisms by which hemorrhages (O2, NO) oxidatively damage the human lung. Work will be based at University of California, Davis (UCD), but some visits to Kings College, London, to appointments may be arranged.

Applicants should have a Ph.D. in biological sciences or chemistry. Experience in HPLC, GC or MS is preferred. Apply to: Dr. Cross, Pathology Medicine, 4301 X Street, UCDMC, Sacramento, CA 95817; FAX: 916-734-7924; telephone: 916-734-3564. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITIONS for recent Ph.D.s to participate in an action research program on the structure, regulation and expression of human DNA repair genes. Current research efforts focus on the molecular defects which underlie cancer-prone human genetic disorders and structural analysis of multifunctional repair enzymes by site-specific mutagenesis. Submit curriculum vitae and the names of three references to: Dr. Michael A. Sirovetz, FEBS INSTITUTE FOR CANCER RESEARCH AND MOLECULAR BIOLOGY, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN NEURO-ECHOLOGY to study the biophysical mechanisms of endogenous burst generation and its modulation in neurons in Aplysia californica and the role of these bursting neurons in the control of autonomic function. Experience in intracellular recording techniques is preferred. Send curriculum vitae, names and addresses of three references, and brief statement of research interests to: Dr. John Koester, Center for Neurobiology and Behavior, Columbia University Medical Center, 722 West 168 Street, New York, NY 10032. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the neurexin molecule using a wide range of techniques to investigate the functions of neurexin in the nervous system. Send curriculum vitae and three letters of recommendation to: Dr. P. J. Gearhart, Department of Biochemistry, Johns Hopkins School of Medicine, 615 North Wolfe Street, Baltimore, MD 21205. Equal Opportunity Employer.

POSTDOCTORAL position available to study androgen-dependent gene expression and factors that interact with receptor to confer transcriptional specificity. Regulation of the mouse sex-determining (Slp) gene is studied by transfection, protein-DNA binding, and in transgenes. Knowledge of molecular biological techniques is required; experience in protein biochemistry is preferred. Send curriculum vitae and names of three references to: Diane M. Robins, Department of Human Genetics, University of Michigan Medical School, Medical Science II 4708, Ann Arbor, MI 48109-0618. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately at the University of California, San Francisco, in the laboratories of Dr. Susan Fisher and Dr. Caroline Damsky to study human placental (trophoblast) development. Previous experience in immunoregulation techniques and in situ hybridization required. Some experience in other molecular techniques desirable. Send curriculum vitae and three letters of recommendation to: Dr. Susan Fisher or Dr. Caroline Damsky, HSW 604, University of California, San Francisco, CA 94143-0512.

An Affirmative Action/Equal Opportunity Employer.
**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

A position is available in gastrointestinal cell biology to study the effects of gastrointestinal peptides on various gastrointestinal target cells in vitro. Candidate with experience in cell biology, receptor binding assays, signal transduction and cellular biochemistry is desirable. Send letter stating interest, curriculum vitae, bibliography and names of three references to: Dr. Jerry D. Gardner, Associate Chairman, Department of Internal Medicine, St. Louis University School of Medicine, St. Louis, MO 63104.

St. Louis University is an Equal Opportunity/Affirmative Action Employer.

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**TUFTS UNIVERSITY SCHOOL OF MEDICINE**

**POSTDOCTORAL POSITIONS** are available to work on two projects: one to analyze the mechanisms generating somatic mutation of autoantibodies and the other to define the interactions of yt T cells with B cells. Both projects will involve cellular and molecular techniques.

Applications, together with curriculum vitae and the names of three references, should be addressed to: Dr. Henry H. Wortis, Department of Pathology, Tufts University School of Medicine, 166 Harrison Avenue, Boston, MA 02111. FAX: 617-552-8560.

**POSTDOCTORAL POSITION**

Physiologically based modeling of metal (Zn, Cd, Hg) accumulation in fish. Initial focus will be on modeling fish size-specific, accumulation kinetics. Training in the use of radiotracers is essential. Must be a U.S. citizen. Send curriculum vitae and names of three references to: Dr. Michael C. Newman, University of Georgia’s Savannah River Ecology Laboratory (SREL), P.O. Drawer E, Aiken, SC 29801. Search will remain open until 10 July 1992. SREL is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

**POSTDOCTORAL POSITION IN MOLECULAR PATHOLOGY.** Available to study the pathogenesis and develop new strategies for human genetic disease mutation analysis in a well-established molecular pathology laboratory for 2 years. Candidates must have a Ph.D. or M.D. with experience in molecular genetics. Available summer or fall of 1992. Send curriculum vitae and the names of three references to: Thomas W. Prior, Ph.D., The Ohio State University, Department of Pathology, North 322 Doan Hall, 410 West 10th Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans and the disabled are encouraged to apply.

**SEVERAL POSTDOCTORAL POSITIONS** available for recent Ph.D.s with experience in molecular biology to do work on identification of regulatory proteins involved in gene expression and on projects pertaining to molecular reproduction. Positions are available for up to 3 years at a starting salary ranging from $25,000 to $47,000 Cdn. depending on experience and qualifications. Please forward curriculum vitae and the names and addresses of three references by 30 June 1992 to: Dr. John S. D. Chan, University of Montreal, Maisonneuve-Rosemont Hospital, Research Center, 5415 Boulevard de l’Assomption, Montreal, Quebec, Canada H3T 2M4.

**POSTDOCTORAL POSITIONS**

**CELL CYCLE REGULATION II**

Persons interested in eukaryotic cell cycle research are invited to apply for postdoctoral positions in the laboratory of Sam Caldecott (see EMBO J. 10, 2669 (1991); EMBO J. 11, no. 8 (in press) for recent publications and Nature 353, 701 (1991) for review).

The Weis Center is a well-equipped modern research facility located in an attractive region of central Pennsylvania. Competitive salary and fringe benefits are available. For consideration, please send curriculum vitae and names of three references to: Human Resources Department (50), Geisinger Clinic, 110 North Academy Avenue, Danville, PA 17822-3024.
CHANCELLOR
UNIVERSITY OF CALIFORNIA
SAN FRANCISCO
The President and The Regents of the University of California invite nominations and applications for the position of Chancellor of the San Francisco campus. The appointment will be effective July 1, 1993.

The University of California, San Francisco, is one of the nine campuses of the University, and the only one devoted solely to the health sciences. It is one of the world's foremost health sciences universities. Its schools of Dentistry, Medicine, Nursing, and Pharmacy and the Graduate Division award advanced professional degrees and doctoral degrees in the basic natural and behavioral sciences relevant to health. The campus is a major clinical and research center for cancer treatment, transplantation, AIDS, pediatric specialties and for research in the basic biomedical sciences. The 1991–92 student enrollment is approximately 3,750; faculty and staff number about 15,000. The campus annual budget is approximately one billion dollars.

There are three general acute-care hospitals, an Ambulatory Care Center, and the Langley Porter Psychiatric Institute which is devoted to psychiatric patient care, teaching and research. In addition, the campus has affiliated programs in some 150 institutions throughout California.

The Chancellor is the chief executive officer of the campus and is responsible to the President. Within the scope of University policy the Chancellor exercises very broad delegated power and is responsible for all aspects of campus administration.

Candidates should have demonstrated experience in the administration of substantial organizations, preferably research universities, and should have a strong scholarly record. Applications, accompanied by current resumes, and nominations may be addressed to:

The President
Attn: Search B
300 Lakeside Drive
University of California
Oakland, California 94612–3550

And should be received no later than July 8, 1992, to be given full consideration.

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

Quality Control Manager
A leading biotechnology company on Long Island, NY has a ground floor opportunity for a hands-on Quality Control Manager responsible for performing and managing all QC activities and establishing SOP's to achieve GMP levels.

Must have B.S./B.A. in Biology or Chemistry plus 3-5 years' experience with GMP level quality control systems within the biotech industry. Knowledge of antibody, immunoassay and DNA probe products desirable. Strong communication and interpersonal skills essential.

Qualified candidates may submit resumes, including salary history to:

Oncogene Science, Inc.
106 Charles Lindbergh Blvd.
Uniondale, NY 11553
ATTN: FR

Equal Opportunity Employer

Quality Control Manager
A leading biotechnology company on Long Island, NY has a ground floor opportunity for a hands-on Quality Control Manager responsible for performing and managing all QC activities and establishing SOP's to achieve GMP levels.

Must have B.S./B.A. in Biology or Chemistry plus 3-5 years' experience with GMP level quality control systems within the biotech industry. Knowledge of antibody, immunoassay and DNA probe products desirable. Strong communication and interpersonal skills essential.

Qualified candidates may submit resumes, including salary history to:

Oncogene Science, Inc.
106 Charles Lindbergh Blvd.
Uniondale, NY 11553
ATTN: FR

Equal Opportunity Employer

Opportunities in Biotechnology

Gelman Sciences is forming a BIOTECHNOLOGY PRODUCT DEVELOPMENT TEAM to work together within tissue culture and biotechnology filtration markets to assess customer needs and identify new product direction. The team will have responsibility for translating highly technical abstract ideas into specific product prototypes.

This high technology manufacturer of microfiltration products for research laboratories, health care and process industries seeks creative, highly motivated individuals with a minimum of 3 years experience in developing products to meet the needs of the scientific consumable product market.

A combination of the following qualifications along with excellent communication skills is required.

LABORATORY TECHNOLOGY DEVELOPMENT/MARKETING
BS, MS or Ph.D. in cell or molecular biology or immunology, experience in separation sciences with marketing/sales of consumables a big plus.

ENGINEERING TECHNICAL DEVELOPMENT SPECIALIST
BS or MS in Engineering field with experience designing plastic prototypes and familiarity in working directly with customers.

For immediate consideration for these challenging opportunities, please send your resume and salary history to:

Gelman Sciences
Human Resources Department
Biotechnology Product Development
600 S. Wagner Road, Ann Arbor, MI 48106
Gelman Sciences is an Equal Opportunity Employer

Quality Control Manager
A leading biotechnology company on Long Island, NY has a ground floor opportunity for a hands-on Quality Control Manager responsible for performing and managing all QC activities and establishing SOP's to achieve GMP levels.

Must have B.S./B.A. in Biology or Chemistry plus 3-5 years' experience with GMP level quality control systems within the biotech industry. Knowledge of antibody, immunoassay and DNA probe products desirable. Strong communication and interpersonal skills essential.

Qualified candidates may submit resumes, including salary history to:

Oncogene Science, Inc.
106 Charles Lindbergh Blvd.
Uniondale, NY 11553
ATTN: FR

Equal Opportunity Employer

Chemical Oceanography Faculty Position
University of Rhode Island
Graduate School of Oceanography

We invite persons specializing in open-ocean processes to apply for a tenure-track faculty position in Chemical Oceanography. The Ph.D. is required by the time of hire, and the position will be filled at the Assistant or Associate Professor level. The successful applicant must demonstrate the ability to establish an active research program, advise graduate students, and develop and teach one or more courses in marine chemistry and related areas. For the rank of Associate Professor, the applicant must have demonstrated a strong record of independent research and publication.

Preference will be given to persons with experience in studying the use of chemical tracers or biogeochemical cycles, in either case with a focus on the open ocean. In addition, preference will be given to candidates who show promise of complementing other programs at the Graduate School of Oceanography, including physical oceanography, marine and atmospheric chemistry, biological oceanography, and paleo-oceanography. The preferred date of hire is on or before Jan. 1, 1993.

Send curriculum vitae, the names of four references and a summary of research interests to Professor Michael E. Pilson, Search Committee Chair, Marine Chemist (Position No. 091177), University of Rhode Island, P.O. Box 6, Kingston, RI 02881. Applications will be reviewed beginning July 1, or until the position is filled. URI is an Affirmative Action/Equal Opportunity Employer.
U.S. Department of Energy Distinguished Postdoctoral Research Program
Research Opportunities in Physical Sciences, Computer Sciences, and Engineering
Research in DOE-sponsored programs
Tenable at various national laboratories
Stipend of $52,800
Doctoral degree received after 1989
U.S. citizens or PR eligible
Application deadline August 1, 1992
For information and applications:
DOE Distinguished Postdoctoral Research Program
Science/Engineering Education Division
Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(615) 576-9934

Sponsored by the U.S. Department of Energy, Office of University and Science Education Programs

The University of Zürich, Switzerland, Institute of Physiology, invites applications for the tenured position (at the Extraordinariat level) of a Professor of Physiology
Applicants should have an outstanding research record in neurophysiology, e.g. on sensory systems, nerve-muscle interactions or developmental neurophysiology. Preference will be given to candidates working at the cellular level with a strong background in advanced electrophysiological and molecular techniques. The candidate should be able to teach in German within two years.
Applications are to be sent before June 30th 1992 to Prof. B. Gähwiler, Physiology Search Committee, Brain Research Institute, August Forel-Strasse 1, CH-8029 Zürich/Switzerland. Applicants are asked to first request instructions for the format of the application from: Medizinisches Dekanat, Universität Zürich, Gloriastr. 23, CH-8091 Zürich, Fax (01) 255 45 65.

Postdoctoral Fellow
DEVELOPMENTAL HEMATOLOGY

Amgen, an industry leader in applied biotechnology, has an opportunity for a Postdoctoral Scientist in the Cell Biology Laboratory of the Developmental Hematology Department.

The main area of interest in this group is the study and identification of novel growth factors controlling early development of hematopoietic stem cells and primitive progenitors of the myeloid and lymphoid lineages.

Candidates for this position must have a Ph.D. in Cell Biology, preferably with an emphasis on hematopoietic cell growth and differentiation. Experience with both in vitro and in vivo assays and models is highly desirable.

Amgen offers a stimulating and challenging environment in which individual contributions and achievements are highly valued. There are excellent opportunities for personal and career growth and a strong compensation and benefits package, including equity offerings. Qualified candidates should send a resume, in confidence, to: Amgen Inc., Dept. IM, Mail Stop T-1-A-207, Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an equal opportunity employer.

The Miles Research Center (MRC) in West Haven is the U.S. pharmaceutical research arm of Miles Inc., Pittsburgh, located on a campus-like setting near the Long Island Sound. The MRC is being developed into a world-class research complex, including a new research institute for metabolic diseases.

This institute will be developed to uncover the basic mechanisms in the pathophysiology of type II diabetes, its complications, and obesity with a long term goal of developing novel therapeutics for the treatment of these diseases. Applications are now being accepted from Ph.D. or M.D. scientists who want to conduct research on insulin action and signal transduction mechanisms, glucose transport, insulin secretion, obesity and appetite regulation and complications of diabetes.

The applicants should have 2 or more years of postdoctoral experience that demonstrate creativity and productivity in research in these or related areas. Backgrounds in molecular biology, biochemistry, cell biology or physiology are desirable.

Miles Research Center offers highly attractive compensation commensurate with qualifications and a benefits package including 401(k) and relocation assistance. These positions and the research environment in our new West Haven facility allow for a professional working environment conducive to career development. For immediate and confidential consideration, please send your resume including salary history to: Dept. CC-MD, Miles Inc., 400 Morgan Lane, West Haven, CT 06516. An Equal Opportunity Employer M/F/H/V.
POSITIOINS OPEN

POSTDOCTORAL POSITION: Available immediately to join an active research group studying the physiology and molecular biology of the human prolactin. Candidates must have a Ph.D. or M.D. and experience in molecular biology, cell culture, or protein biochemistry. Send curriculum vitae and names of three references to: Dr. Edith Markoff, Division of Endocri
cology, Children’s Hospital Medical Center (CCHMC), Elliott and Chadwick Avenues, Cincinnati, OH 45229. CHMC is an Affirmative Action/Equal
Opportunity Employer.

POSTDOCTORAL POSITIONS: Positions are immediately available for fellows to work on immunobiology
of HIV as an indication of viral antigens. Send curriculum vitae and references to: Dr. Gary R. Klimpel, Department of Microbiology J-19, University of Texas Branch (UTMB), Galveston, TX 77555-1019. UTMB is an Equal
Opportunity M/F/H/V Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

POSTDOCTORAL POSITIONS: (1) Examine the basis for ethanol's effects on calcium channels in peptid
ergic nerve terminals; (2) examine the basis of action of general anesthetics, serotonin and voltage-gated
cannels expressed in oocytes from mRNA. Training in voltage clamp techniques and/or molecular biology is required. Please submit the names of three references to: Dr. Steven N. Treves, Department of Pharmacology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. The University of Massachusetts is an Equal
Opportunity Employer.

POSTDOCTORAL POSITION: Available 1 July 1992 to study erythroid transcription regulation (particu
larly nuclear matrix/c-acting factors interaction). Experience in basic molecular techniques and cell culture preferred. Send curriculum vitae to: Dr. Ronald Nagel or Dr. Eric Bouhasnia, Department of Medicine/Hepatobiliary Institute of Medicine, 1300 Morris Park Avenue, U-921, Bronx, NY 10461. U.S. citizen or green card required.

POSTDOCTORAL POSITION: The Institute of Wildlife and Environmental Toxicology has an imme
diate opening for a POSTDOCTORAL FELLOW to use a geographic information system in a generalized ecological risk classification for farm ponds. Must have a strong background in the use of ARC/INFO sofware. Experience with SUN workstations and/or remotely sensed data is desirable. One-year position with possibility of extension. Salary will be $25,000 to $30,000. Applicants should send curriculum vitae and three letters of recommendation to: Dr. Stephen K. Arakawa, Department of Molecular Biology and Genetics, Wayne State University (WSU) School of Medicine, 2228 Scott Street, Detroit, MI 48201. WSU is an Equal Opportunity Employer.

MOLECULAR BIOLOGY POSTDOCTORAL/ RESEARCH ASSOCIATE: Several positions available to be an interdisciplinary research team using molecular biology to study growth, develop
ment and differentiation. The successful candidate(s) will utilize either the lysis oxidase or promizone gene system. Interested individuals should forward their curriculum vitae, copies of representative publications and three letters of recommendation to: Dr. Stephen K. Arakawa, Department of Molecular Biology and Genetics, Wayne State University (WSU) School of Medicine, 2228 Scott Street, Detroit, MI 48201. WSU is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP--HIV RE
SEARCH. Section on Clinical and Molecular Retrovi
rology, Laboratory of Immunoregulation, National In
stitute of Allergy and Infectious Diseases, NIH, Wash
ington, D.C., has available a 2- or 3-year intramural research fellowship to study gene transfer and therapeutic implications of recombinant retroviral vectors in the treatment of AIDS. Consideration will be given to begin research between 1 July and 1 September 1992 are encouraged to apply. An M.D. or Ph.D. degree is required, and a strong background and interest in AIDS. Start date is January 1992. Send curriculum vitae and names of three references to: Dr. David L. Cooper, Laboratory of Immunology, NIH, Building 10, Room 11B15, 9000 Rockville Pike, Bethesda, MD 20892. M.D. candidates or Ph.D. in immunology and experience in AIDS and HIV work are desirable. Send curriculum vitae and names of three references to: Dr. Gary R. Klimpel, Department of Microbiology J-19, University of Texas Branch (UTMB), Galveston, TX 77555-1019. UTMB is an Equal Opportunity M/F/H/V Affirmative Action Employer. Dues must be received by 31 July 1992. U.S. citizen or green card required. Send curriculum vitae and names of three references to: Dr. Edith Markoff, Division of Endocri
cology, Children’s Hospital Medical Center (CCHMC), Elliott and Chadwick Avenues, Cincinnati, OH 45229. CHMC is an Affirmative Action/Equal
Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS: BRAIN DAIN DELIVERY

UCLA BRAIN RESEARCH INSTITUTE. Na
tional Institutes of Health-Training Program supports 2- or 3-year postdoctoral research
fellowships to study brain drug delivery and blood-brain barrier transport biology. Experience in oligonucleotide or peptide drug delivery, neurochemistry, neurobiology, animal physiology and pharmacology desired. Competitive salary plus medical insurance. Positions available immediately. Send curriculum vitae and three letters of reference to: Dr. William M. Partridge
Brain Research Institute
University of California
Los Angeles
School of Medicine
Los Angeles, CA 90024-1761
 or FAX: to 310-206-5163.
An Equal Opportunity Employer.

U.S. Department of Agriculture (USDA), Agricultu
ral Research Service (ARS). SOIL MICROBIOLOGY,
GIST, Horticultural Crops Research, Corvallis, Oregon.
POSTDOCTORAL RESEARCH ASSOCIATE will work on aspects of symbiotic biology involving VA
mycorrhizae, fungi and root-nodulating bacteria, and under greenhouse
and in vitro conditions. Experience with VAM fungi, familiarity with plant physiology and biochemistry required. Starting salary: $32,000 per year with benefits. Call: Gabor Bethlenfalvay at 503-750-8785 (research), or Pat Roberts at 503-857-3441 (application procedures). Inquiries should be received by 1 July 1992. ARS is an Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST

A POSTDOCTORAL position is available in the laboratory of Dr. Ross Basch to study the growth and differentiation human hematopoietic cells in immu
nodeficient mice. The research involves isolation and characterization of the human bone marrow cells which serve as hematopoietic progenitors. Experience in tissue culture and molecular biology is desirable.

Salary is competitive and excellent fringe benefits are provided.

Please send your curriculum vitae to: Dr. R. S. Basch, Department of Pathology, New York University Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer M/F.

CHEMISTRY, RESEARCH ASSOCIATE: Dry line synthesis of metal oxalazoles, complexes of poly
oxometalates with O, N donor ligands; characterization using multinuclear NMR, IR, EPR, GC-MS techniques; electrochemistry and X-ray crystallography. Candidate should have a Ph.D. degree in inorganic chemistry and demonstrate strong background in synthesis of metaloxide materials, organic ligand synthesis and spectro
scopic characterization of single-crystal X-ray diffraction. $23,800 per year full time. Send resume, list of publications, and three professional references by 13 July 1992 to: Inorganic Research Associate Search Committee, Department of Chemistry, Room 1-014 CST, SYRACUSE UNIVERSITY, Syracuse, NY 13244-4100. Affirmative Action/Equal Opportunity Em
ployer.

RESEARCH ASSOCIATE for university in central Ohio. Develops and implements computer-user interface systems and equipment for protein sequence searching of biological databases; constructs computer interface interfacing equipment to study transport of drugs across membranes and interfaces; assists in preparation of grant proposals and publishes articles in peer-reviewed jour
nals; develops and installs software; oversees graduate research assistants. No experience required in above duties but applicants will qualify with Ph.D. in pharma
ceutical analysis or analytical chemistry. 2-3 years of experience in research experience in constructing computer-instrument interfacing equipment to study transport of drugs across membranes, programming in C and Assembly languages and experience in instrument operating system (experience may be gained concurrent with degree). Forty hours a week, 8:00 a.m. to 5:00 p.m., Monday to Friday; salary: $25,320 per year. Must be in Ohio and be a U.S. citizen. Email résumé to work temporarily in the United States. Send résumés in dupli
cate (no calls) to: G. Maugans, JO #1260385, Ohio Business Employment Services, P.O. Box 1618, Columbus, Ohio 43216.
Section Chiefs.
Membrane Biophysics.

The Laboratory of Membrane Biochemistry and Biophysics, directed by Dr. Norman Salem, Jr., conducts basic and clinical studies on the functions of polyunsaturated lipids. This newly formed laboratory is seeking applications for two tenure-track positions at the Section Chief level providing an opportunity to form and administer their own research group. These will be in the areas of NMR and Fluorescence Spectroscopy and are available immediately.

It is expected that each section will focus upon a series of interrelated problems dealing with the molecular associations, biophysical properties, protein-lipid interactions and membrane functions of polyunsaturated phospholipids. Of particular interest are those species containing docosahexaenoic acid (C22:6n3), an essential fatty acid in the nervous and visual systems. Studies will be conducted in collaboration with biochemists and the Section of Mass Spectrometry. The laboratory is well equipped with its own NMR spectroscopy and fluorescence lifetime instrumentation and future expansion is planned. The NMR group will also have access to imaging instrumentation within the NIH In Vivo NMR Center.

Salary is negotiable and depends upon skills and experience. U.S. citizenship or permanent resident status is required. Minority applicants are encouraged to apply. Interested applicants should apply by submitting a curriculum vitae, three letters of reference and a statement of research interests to Ms. Kathleen Hanratty, Personnel Management Branch.

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CELLULAR ADHESION INHIBITORS — We are accepting applications from individuals to participate in a program to develop inhibitors for cellular adhesions relating to thrombosis, inflammation and reperfusion injury. The successful candidate will have a PhD and postdoctoral experience in cell biology or biochemistry.

ORGANIC/MEDICINAL CHEMISTRY — Medicinal Chemists are sought for our drug discovery efforts in receptor antagonists and protease inhibitors based on synthetic peptide leads.

PROTEIN CHEMISTRY — One position exists for a Scientist with a background in protein chemistry to work on purification and structure/function relationships of coagulation proteins.

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant research contributions. To apply, please send curriculum vitae to: COR Therapeutics, Inc., Human Resources (Ref. #J92), 256 East Grand Avenue, South San Francisco, CA 94080. COR is an equal opportunity employer.

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Reprinted from the April 3 issue of SCIENCE this special section explores exciting new techniques and innovations taking place with computer technology in science.

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Experienced Macintosh programmer to develop and maintain cutting edge Macintosh applications. Must have experience with "C" on the Macintosh. C++, experience with object-oriented programming techniques, and the Life Sciences desirable.

Competitive compensation package includes paid medical, dental insurance and company bonus.

If you are interested in joining the IBI and Kodak team in developing innovative software tools for the Life Science Research community, send a current resume, including salary history and position desired, to IBI, Software Development Group.
RESEARCH ASSOCIATE for northwestern Ohio biomedical research facility. Research project studying the protein dynamics of research associate in this program include: (1) grow and maintain the IM9 cell line of human lymphocytes, (2) isolate and purify PS9 and other steroid hormones, (3) binding proteins and heat shock proteins with conventional chromatography, immunoaffinity chromatography, HPLC, gel filtration, etc., (3) perform various assays to characterize the purified proteins, (4) conduct, in the research facility, the biology of both plant and animal viruses. Candidate must have a Ph.D. in biology and three or more years experience. Preference will be given to individuals with experience in the research facility. Postdoctoral experience will be given to appropriate ranks with McGill University's Faculty of Medicine. The group will be housed in newly developed laboratory space and provided with state-of-the-art equipment. The academic environment and collaborative potential for neurosciences at the MNI, at McGill and in Montreal are excellent. Montreal is a cosmopolitan, bilingual city known for its high quality of life. Applications should be sent to: Dr. Richard A. Murphy, Director, Montreal Neurological Institute, 3801 University Street, Montreal, Quebec, Canada H3A 2B4. The deadline for receipt of applications is 31 August 1992. McGill University is committed to Equity in Employment.

RESEARCH SCIENTISTS. Biomedical leader in cryopreservation of transplantable tissue is currently offering excellent career opportunities for two Ph.D.-level research scientists. As a part of the active research team, each scientist will be expected to manage his/her own primary research project and to collaborate on associated projects. Experience and/or previous experience is desirable. HEMOSTASIS RESEARCH. Requires a Ph.D. in biochemistry/physiology with specific training and research experience in the area of blood coagulation and/or fibrinolysis.prior training in DISINFECTION/STERILIZATION RESEARCH. Requires a Ph.D. in biological sciences with specific training and research experience in the area of disinfectant and/or cell and tissue microbiology. We offer an excellent salary and comprehensive health package, 401K, and a great place to live. Please respond in confidence to: Dr. B. Morse, Cryo- Life, Inc., 2211 New Market Parkway #142, Marietta, GA 30067. Equal Opportunity Employer.

SCIENCE May 26 • June 1992

RESEARCH SCIENTISTS (Two positions). Duties: Carry out laboratory research related to isolation and characterization of natural products with experience in chromatographic separations and HPLC analysis. Requirement: Ph.D. in a science. Experience: Preference in natural products research. Salary range: $23,000 to $27,000 per year.

BOOTH OR PLANT SCIENTIST. Duties: Plant collection of cultivated and wild plants and evaluation of medicinal plants in cultivation. Ability to work with a multidisciplinary team of plant scientists and chemists to develop medicinal plants. Requirements: Master's degree in a plant science. Preferences: Training or experience in plant taxonomy, wild plant collection, or sampling for plant growth or phytochemistry. Salary range: $20,000 to $24,000 per year.

RESEARCH ASSOCIATES (Two positions). Duties: Carry out laboratory research related to isolation and characterization of natural products. Requirements: B.S. and laboratory experience or equivalent. Preference: Master's degree in chemistry or natural products. Salary range: $20,000 to $24,000 per year, based upon experience and education.

RESEARCH ASSOCIATE. Duties: Design and conduct research studies on the effects of phytochemicals in medicinal plants, interest in multidisciplinary research with other plant scientists and phytochemists to enhance the production of natural compounds in medicinal plants. Requirements: Master's degree in a plant science. Preference: Master's degree in horticulture, agronomy, forestry or other area in natural resource conservation. Salary range: $20,000 to $24,000 per year. Deadline: All positions open until filled. Send résumé, transcripts, and reprints to: Business Offices, School of Pharmacy/Rene P. Carayon Institute of Pharmaceutical Sciences, 2065 Fayer Hall, University of Mississippi, University, MS 38677. The University of Mississippi is an Affirmative Action/Equal Opportunity Employer.
**PROGRAM OF EXCELLENCE IN MOLECULAR BIOLOGY OF THE HEART AND LUNG**

**Special Postdoctoral Positions**

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung and Blood Institute of NIH, has as its goal the application of molecular genetic approaches to study heart and lung function. Postdoctorals work closely with the sponsor in initial years but are encouraged to develop a research program separate from that of the sponsor and apply for independent funding during the final year.

The Program is open to Ph.D.s or M.D.s with training in molecular genetics who wish to apply their skills to significant problems of heart or lung or to individuals with strong backgrounds in heart and lung who wish to develop molecular genetic tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends begin at $26,000 per year with benefits. Openings are available in several of the laboratories listed below.

**Na,K-ATPase** gene regulation and structure-function studies including identification of the cardiac glycoside binding site using site specific mutagenesis. Jerry B. Lingrel, Ph.D.

**Characterization of lung surfactant proteins and genes.** Jeffrey Whitsett, M.D.

**Collagen gene expression in the lung.** Winston Kao, Ph.D.

**Structure-function relationships and genetic regulation of Ca-transporting ATPases of intracellular and plasma membranes.** Gary Shull, Ph.D.

**Study of cardiac contractile proteins and growth and developmental control of muscle and pulmonary proteins.** Jeffrey Robbins, Ph.D.

**Transcriptional analysis of lung surfactant protein gene promoters.** Donal Luse, M.D.

**Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells.** Steven Potter, Ph.D.

**Structure and function of Ca**++** channel proteins (heart, brain, vascular smooth muscle) and gene regulation; isolation of receptors for calcium antagonists.** Arnold Schwartz, Ph.D.

**Role of apolipoproteins in heart and lung development and in resistance to disease.** Judith Harmony, Ph.D.

**Gene targeting in ES cells using homologous recombination. Focus is on vasculogenesis, angiogenesis and cardiogenesis.** Thomas Doetschman, Ph.D.

**The genetics of human cardiovascular disease.** Anil Menon, Ph.D.

Applicants should submit a C.V. and the names of three references to Jerry B. Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0524.

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**UNIVERSITY OF VIRGINIA**

**Director Molecular Biology Institute and Markey Center**

Nominations and applications are invited for the Directorship, which can start during the 1992–93 academic year, later if necessary. The Institute and the Center, managed conjointly at present, command significant resources. The Institute is supported primarily with university funds. The Markey Center for Research on the Molecular Biology of Cellular Signaling Processes is funded by a five-year grant from the Markey Charitable Trust. Core space of some 12,000 square feet and core facilities for the Center are located in the School of Medicine. The more than fifty molecular biologists comprising the parent Institute are members, however, of departments of the College of Arts and Sciences as well as of the School of Medicine. All members hold regular faculty appointments, as will the new Director.

Candidates should have a strong research program in one of the molecular subdisciplines of signaling, e.g., membranes and receptors, signal transduction, genome-level processes, molecular structure. Candidates should be eligible for the rank of Professor. Scientific management experience would be helpful but is not a prerequisite for appointment. Administrative arrangements, salary, and departmental affiliation are flexible and will depend upon experience. Applicants should provide a curriculum vitae, a full bibliography, and the names of three refer- ees. Nominations may be offered by letter. Please address: Markey Search Committee Box 56, MR-4 Building University of Virginia Charlottesville, VA 22908

Applications should be complete by July 31, 1992; but the search will continue, and additional applications will be accepted as necessary, until the position is filled.

The University of Virginia is an Equal Opportunity, Affirmative Action Employer. Women and minorities are encouraged to apply.
Science at Synergen

Synergen is a young and rapidly growing research based biopharmaceutical company using the latest advances in recombinant DNA technology, molecular biology and manufacturing technology. Our focus is on the discovery, development, and production of protein-based human pharmaceuticals for the treatment of serious human diseases. We currently have need for the following professional:

**PHARMACOLOGY SCIENTIST**

We are seeking a generalist with a broad-based research background to test molecularly derived proteins in a variety of animal models of human disease. The qualified candidate must have extensive knowledge of and experience in animal model testing, and inflammation, neuroscience, growth factors or cytokines; a Ph.D. in Physiology or Pharmacology is required.

Synergen offers a competitive compensation package, generous benefits, an open, non-traditional work-place and corporate financial stability. Located at the base of the Rocky Mountains, Boulder, Colorado is renowned for its beauty, culture and natural attractions. Please send your resume to: Employment Manager, Box PS, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301. We are an Equal Opportunity Employer.

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**POSITIONS OPEN**

**NATURAL PRODUCTS CHEMIST.** Campbell Research and Development, a division of the Campbell Soup Company, in Davis, California, is seeking a natural products chemist. The successful candidate must be able to independently develop methods for the isolation, identification and further analysis of plant metabolites using GC, HPLC and other appropriate methods. Knowledge of plant metabolites ("phytochemicals") as related to human nutrition is desirable. Must have excellent communication skills. Requires Ph.D. or M.S. in nutrition, biochemistry, chemistry or other areas relating to human health and plant metabolites. Starting date: 1 August 1992. Facility located 6 miles from the University of California, Davis, campus. Submit resume, transcripts and names of references to: Ms. Dawn Adams, Campbell Research and Development, 28605 County Road 104, Davis, CA 95616. Telephone: 916-753-2116.

**QUANTITATIVE ECOLOGIST—FISHERIES**

Boulder, Colorado is a rapidly growing research and development center for the study of aquatic ecosystems. Synergen, Inc. offers a position (Assist/Comm—Contract) at the Marine Resources Research Institute (South Carolina Wildlife and Marine Resources Department [SCWMRD]) as a contract-funded position. Applicant should hold the Ph.D. degree and be experienced in statistics and population models. Starting date: 1 August 1992. Facility located at the University of South Carolina, Charleston, SC 29422-2559. The SCWMRD prohibits discrimination on the basis of race, sex, color, national origin, handicap or age.

**STAFF SCIENTIST/SCIENTIST CENTER FOR BIOMEDICAL RESEARCH THE POPULATION COUNCIL**

The Population Council is seeking a scientist for its Contraceptive Development Program. Advanced degree (Ph.D., M.D., D.V.M., or equivalent) in immunology, endocrinology, or reproductive physiology—preferably relating to reproductive physiology or contraception. Experience in a research environment is required. Applications from postdoctoral fellows, including experience in antibody production, characterization, and small animal surgery. Salary will depend upon qualifications. Excellent benefits. Send resume to: Dr. Rosemarie Thau, The Population Council, Center for Biomedical Research, Tower Building, 1230 York Avenue, New York, NY 10021.

**SCIENTIST/MOLECULAR BIOLOGIST**

Research scientist sought for research center at public university in southern Utah to carry out independent research project focused on the development of the molecular basis of growth hormone's physiological effects (and potential pharmacological impacts) using in vivo (transgenic mouse) and in vitro (tissue culture) models. HSV-1: (1) conduct experiments using gene cloning, DNA site-specific mutagenesis, gene sequencing, immunoprecipitation, protein structure/function analysis, radioimmunoassay, and autoradiography; and tissue culture, using state-of-the-art techniques; (2) perform transgenic animal screening and animal surgery; and (3) operate standard molecular biological equipment and instrumentation. Requires Ph.D. or equivalent in molecular biology or physiology. Experience: 2 years in the job described. Experience could be gained during or after the attainment of the Ph.D. (or M.D.). Hours: Four days per week, 8:00 a.m. to 5:00 p.m., Monday to Friday. Salary: $48,500 per year. Must have proof of legal authority to work temporarily in the United States. Send resume in duplicate (no calls) to: J. Davies, PO. Box 1275833, Utah Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

**POSITIONS OPEN**

**STAFF ANALYTICAL CHEMIST, for manufacturer in the Cincinnati area. Development of analytical research and development chemist is seeking a chemical/ flavor corrosion chemist. We also offer excellent benefits, including a generous compensation package, opportunities for growth and advancement, and an attractive work environment. In addition, we offer opportunities for further education, a comprehensive benefits package, and competitive salaries. Synergen offers a competitive compensation package, generous benefits, an open, non-traditional work-place and corporate financial stability. Located at the base of the Rocky Mountains, Boulder, Colorado is renowned for its beauty, culture and natural attractions. Please send your resume to: Employment Manager, Box PS, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301. We are an Equal Opportunity Employer.

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**ANNOUNCEMENTS**

**AQUATIC BIOLOGY and PLANT ECOLOGY**

Applications for nomination for NSERC Women's Faculty Awards are invited. Must be female Canadian citizens or landed immigrants with 15 years or more research experience in aquatic biology, molecular biology, mycology, plant ecology, and plant morphology. Send curriculum vitae, statement of research interests, and reprints to: R. J. F. Smith, Biology Department, University of Saskatchewan, Saskatoon, Sask., S7N 0W0 Canada, by 20 July 1992. Telephone: 306-966-4400, FAX: 306-966-4414, EUTNET: SMITHR@SASK.USASK.CA.

**MEETINGS**

**MAJOR INTERNATIONAL CONFERENCE ON WATER DISINFECTION**

The First International Conference on the Safety of Water Disinfection: Balancing Chemical and Microbial Risks will be held in Washington, D.C., 31 August to 3 September 1992. A distinguished group of international experts will review the current science on the potential health risks of exposure to chemical byproducts of water disinfection processes compared with those from microbial contamination of drinking water. The conference is sponsored by the International Life Sciences Institute (ILSI), U.S. Environmental Protection Agency, U.S. Food and Drug Administration, Pan American Health Organization, World Health Organization, and American Water Works Association. For further information contact: Dave Dale, ILSI, 1126 16th Street N.W., Washington, DC 20036, telephone: 202-659-0074.

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