run side by side. The user heat-bonds the SlideSeal chamber to a slide, creating a wa-
ter-tight 15-mm-diameter sample area, and adds up to 75 µl of amplification reagents. A completely vapor-tight seal is effected by a unique plastic filter. These two seals ensure that water does not evaporate during thermal cycling, which maintains the concentration of reaction buffers and stops the sample from drying out. Hybaid. Circle 144.

Nuclease Protection Kit
The S1 nuclease protection assay is a powerful technique to quantify and map specific mRNA species. It is 10 to 50 times more sensitive than Northern or dot blot analysis for the detection of specific mRNA species. S1 assays can also be used to identify the 5' and 3' ends of transcripts as well as the positions of introns within the gene encoding the target message. Ambion. Circle 145.

PCR Tubes
Thin-wall polymerase chain reaction (PCR) tubes help accelerate uniform well-to-well heat transfer, leading to shorter cycle times. They also assist in magnifying critical DNA fragments. The tubes fit in all commonly used thermal cyclers. They come in 0.2 and 0.6 ml sizes. The 0.2-ml tubes come in strips of eight with matching cap strips, for loading into 8 x 12 thermal cyclers. Trays loaded with 96 tubes are also available. Globe Scientific. Circle 146.

Literature
Free Your Analysis from the Confines of Your FT-IR! describes a line of infrared fiber optics offering the ability to analyze samples at remote locations using Fourier transform infrared spectroscopy. The products offer flexibility for applications involving hazardous environments, process and reaction monitoring, restricted access sampling vessels, non-destructive sampling, caustic and corrosive environments, oddly shaped samples, and high-temperature and-pressure environments. Samples can include liquids (aqueous and nonaqueous), powdered solids, sheet materials, reflective solids, microsamples, and gases. Spectra-Tech. Circle 147.


Solvent Recovery Systems describes a line of condensers, chambers, and gravity drums to return solvent vapors back to their original liquid state for recycling, thereby protecting the environment, employees' health, and data quality. Kontes Glass. Circle 149.

Separations is a newsletter with articles covering biomolecular research. Topics in a recent issue include high-resolution DNA fragment analysis, new reversed-phase chromatography media, large-scale oligonucleotide purification, spectrophotometric quantification of nucleic acids, and kits for purification of monoclonal antibodies by centrifugation. Pharmacia Biotech. Circle 150.
For fast relief from the nagging ache of taxes, we recommend TIAA-CREF SRAs. SRAs are tax-deferred annuities designed to help build additional assets—money that can help make the difference between living and living well after your working years are over.

Contributions to your SRAs are deducted from your salary on a pre-tax basis. That lowers your current taxable income, so you start saving on federal, and in most cases, state taxes right away. What's more, any earnings on your SRAs are also tax-deferred, so you don't pay tax on your contributions or your earnings until you receive them as income. That can make a big difference in how painful your tax bill is every year.

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WEST CAROLINA UNIVERSITY
Science of Medicine
Department of Microbiology and Immunology

Faculty positions are available at the ASSISTANT or ASSOCIATE PROFESSOR levels in the areas of molecular and cellular immunology and/or microbial pathogenesis, salary and rank will be commensurate with qualifications. Successful candidates will develop an extramurally funded research program and will participate in teaching and the Graduate School. Appointment at the Associate Professor level requires a strong record of continuous research funding including current extramural support and evidence of leadership in teaching and service. The department has 15 full-time faculty and is fully equipped with advanced core facilities for research in immunology, molecular biology and genetics. Please include curriculum vitae describing research and teaching goals, and names and addresses of three references to: Dr. Paul Phibbs, Professor Chairman, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, NC 27858-4354.

East Carolina University is an Equal Opportunity/Affirmative Action University. Applicants must comply with the Immigration Reform and Control Act.

Augusta College, Sioux Falls, South Dakota seeks a biologist to fill a one year leave replacement position as ASSISTANT PROFESSOR OR BIOLOGIST. Position may be renewable for up to two additional years. Responsibilities include team teaching introductory biology courses. Ph.D. minimum. Salary range $26,000-$29,000. Send a resume to Dean of the College, Augustana College, Box 763, Sioux Falls, SD 57197. Equal Opportunity Employer.

Invertebrate Paleontologist-Field Museum. ASSISTANT CURATOR, tenue-track. Seeking productive colleague with innovative, specimen-based research program. Ph.D. and record of scientific achievement required. Excellent potential for extramural funding. Send curriculum vitae, teaching statements, and three letters of reference to James E. Talmadge, Ph.D., Pathology/Microbiology, UNMC, 600 South 42nd Street, Omaha, NE 68198-5660. An Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST
The Oregon Regional Primate Research Center (ORPRC) has an opening for a developmental biologist at a level equivalent to ASSISTANT, ASSOCIATE or FULL PROFESSOR. Scientists interested in early mammalian development and animal models are especially encouraged to apply. Candidates must hold a Ph.D., M.D., or equivalent doctoral degree, have experience in molecular biology or genetics, and be able to establish and maintain an externally funded research program. The ORPRC offers a unique opportunity to develop lines of research and demonstrated capacity for independent research and funding. Curriculum vitae, letter of research interests, and a list of three references should be sent to ORPRC, 505 N.W. 185th Avenue, Beaverton, OR 97006 USA. Applications will be accepted until the position is filled. The ORPRC is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR of Biology—Tenure-Track. The Biology Department of Raymond Walters College, the two-year branch campus of the University of Cincinnati, invites applications of qualified individuals for a position to begin September 1, 1995. The major teaching responsibility will be in the area of entry-level Biology courses for majors and non-majors. The candidates must demonstrate significant teaching experience with primary course responsibility for lecture and laboratory preparation at the college level. Minimum qualifications: A Master’s degree in Biological Sciences, Ph.D. preferred. Send a detailed résumé, including a summary of teaching experience, courses taught, evidence of teaching proficiency, publications, and a list of three professional references to: Dr. Donald M. Meisner, Chairman, Department of Biology, Raymond Walters College, 3855 Plainview Drive, Cincinnati, OH 45236. The University is an Equal Opportunity Employer.

FACULTY POSITION IN GYCOBIOLOGY
University of California, San Diego

The Cancer Center and the Division of Cellular and Molecular Medicine are jointly recruiting for an established investigator to join the Gynecology Program current members: M. Farquhar, A. Manz, J. Marth, E. Muchmore, G. Palade, L. Powell, and A. Varki). This 12-month, tenure-track FACULTY POSITION is for an individual with an established track record in any area of Gynecology. Particular attention will be given to candidates with experience in genetics, immunologic or cellular and molecular biology. Departmental affiliation, teaching activities, professional rank and compensation will depend upon background and experience. Interested individuals should send a curriculum vitae, and names of three professional references to: Ailt Varki, Associate Director for Basic Research, UCSD Cancer Center, University of California, San Diego, La Jolla, CA 92037-0067. An Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR: Division of Molecular Medicine, Department of Medicine; tenure-track, M.D., or Ph.D. Research in human or mouse genetics, mouse models of disease, generation of transgenic and/or knock-out mice, cell biology, and endocrine regulation. Send curriculum vitae to: Dr. Alan Tall, Department of Medicine, Columbia University, New York, N.Y. 10032. The University is an Equal Opportunity/Affirmative Action Employer.
UNIVERSITY OF CINCINNATI
SENIOR LEVEL RESEARCH FACULTY
Department of Pathology and Laboratory Medicine

The Department of Pathology and Laboratory Medicine at the University of Cincinnati is recruiting two senior level RESEARCH FACULTY. One position is in the area of Genetics and the other is in the area of Atherosclerosis Research. Established investigators with a strong publication record and a demonstrated ability in sustaining extramural research support are encouraged to apply. The successful candidate will be expected to lead independent research programs and to interact with current faculty members in developing and expanding the research program in these two focused areas of research in the department.

Interested applicants should send a curriculum vitae and the names of three references. Applications will be accepted until the position is filled. Applications and inquiries should be directed to:

David Hui, Ph.D.
Chairman, the Research Committee
Department of Pathology and Laboratory Medicine
University of Cincinnati College of Medicine
P.O. Box 670829
Cincinnati, OH 45267-0529

Affective Action/Equal Opportunity Employer.

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NIH)

Richard W. Hendler, Ph.D.

The Laboratory of Cell Biology, National Heart, Lung and Blood Institute invites applications for a senior NON-TENURE-TRACK POSITION to collaborate on studies of the mechanisms of energy transduction by electron-transporting and photon-absorbing enzymes. The candidate must be a citizen or permanent resident with a Ph.D. degree, and a minimum of five years of postdoctoral experience involving the use of sophisticated, computer-controlled instrumentation for obtaining rapid kinetic spectroscopic and physiological data, and for measuring the activity of enzymes in protocell systems. It is essential that the candidate be able to perform a variety of experimental procedures and data analyses that require sufficiently broad background in electron transport, photosynthesis and photocell technology to interpret the data and design experiments. The salary range is $50,000 to $65,000, depending on experience. Send curriculum vitae and bibliography and three letters of reference to: Dr. Richard W. Hendler, Laboratory of Cell Biology, NHLBI, NIH, 3 Center Drive MSC 0301, Building 3, Room B1-06, Bethesda, MD 20892-0301. Applications must be received within 30 days of this announcement. NIH is an Equal Opportunity Employer.

POSTDOCTORAL OPENINGS: The Department of Zoology, University of Miami, Coral Gables, Florida seeks two postdoctoral associates to collaborate on existing or new research efforts with faculty sponsors and to interact with graduate and undergraduate students. Starting date: 1 September 1995.

Position 1: Aquatic Toxicologist. Qualifications: Recent Ph.D. with a strong background in aquatic toxicology, statistics, and organic chemistry. Experience with fish toxicity testing and HPLC is desirable.

Position 2: Ecological Geneticist/Genetic Ecologist. Qualifications: Recent Ph.D. with a strong background in biochemical population genetics. Experience with methods of mtDNA restriction fragment analysis and/or RAPD is desirable. Initial appointment is for one year, renewable. Send letter of application and statement of research interests, curriculum vitae, and three letters of recommendation to: Dr. Douglas H. Taylor, Chair, Zoology, University of Miami, Oxford, OH 45056. Miami is an Equal Opportunity Employer.


POSTDOCTORAL POSITION

FACULTY POSITION IN BIOCHEMISTRY

The Dr. William M. Scholl College of Podiatric Medicine (SCPM) invites applications for a full-time FACULTY POSITION in the Department of Basic Biomedical Sciences. The position is available July 1, 1995, and offers faculty rank and salary commensurate with professional experience and accomplishments. We require a Ph.D. in biochemistry, or related discipline, with substantial experience in teaching. You will teach a comprehensive course in medical biochemistry to podiatric medical students. Productivity in research and other scholarly activity is expected. Limited intramural funds are available for research. Please submit a letter of application, curriculum vitae, and supporting materials, including three letters of reference to: Bruce L. Manion, Ph.D., Chairman, Search Committee, Scholl College of Podiatric Medicine, 1001 North Dedrick Street, Chicago, IL 60610. SCPM is an Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

We seek an outstanding individual to participate in research projects directed at determining the cellular and molecular events in the attachment and colonization of bacteria in the urogenital system. The glycoproteins and glycolipids involved in the adhesion of bacteria will be characterized and the specific oligosaccharide structures that interact with the bacterial adhesins identified. Specific and novel mechanisms of transmembrane and intracellular glycoconjugate interactions will be sought. Qualified candidates should have a Ph.D. in cellular, molecular or structural biology with experience in the structures and biology of glycoproteins and glycolipids involved in bacterial adherence infectious diseases. This position has the possibility of leading to a tenure-track faculty appointment. To apply, submit curriculum vitae and a summary of research experience to:

Anthony J. Schaeffer, M.D.
Professor and Chairman
Laboratory Medicine
Northwestern University Medical School
303 East Chicago Avenue
Tarry 115
Chicago, IL 60611

An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Positions are now available to study either the involvement and mechanism of activation of cell cycle-related protein kinases in apotic signal transduction (Lahti et al., Mol Cell Biol, 15:1-11, 1995; Xiang et al., J Biol Chem. 269:19695-19700, 1994) or the impact of the genes encoding these protein kinases in childhood neuroblastomas (Lahti et al., Nature Genetics, 79:350-375, 1995). Initial appointment is for one year, renewable. Send CVs and statement of research interests to: Dr. S. E., Biology, 10191 North Medical Center, St Louis, MO 63121.

POSTDOCTORAL POSITION

FACULTY POSITION Available in the Department of Pediatrics, Division of Allergy/Immunology, Medical University of South Carolina. The successful candidate will be involved in lipid and cholesterol research. This position will involve the generation and use of transgenic and gene knock-out mice in delineating the mechanisms for dietary regulation of lipid absorption genes and in the relationship between dietary lipid absorption and atherosclerosis.

Interested applicants should send a curriculum vitae and the names of three references. Applications will be accepted until the position is filled. Applications and inquiries should be directed to: David Hui, Ph.D., University of Cincinnati College of Medicine, P.O. Box 670829, Cincinnati, OH 45267-0529, Affective Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

The Department of Pediatrics and Laboratory Medicine at the University of Cincinnati is recruiting two POSTDOCTORAL POSITIONS for those scientists with a recent doctoral degree and a strong background in molecular biology. The successful candidate will be involved in research related to the European research projects that involve the generation and use of transgenic mice in the study of atherosclerosis and phosphatidylcholine metabolism. Interested applicants should send a curriculum vitae and the names of three references. Applications will be accepted until the position is filled. Applications and inquiries should be directed to: David Hui, Ph.D., Department of Pediatrics and Laboratory Medicine, University of Cincinnati College of Medicine, P.O. Box 670829, Cincinnati, OH 45267-0529, Affective Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available to study CNS serotoninergic function through the examination of mutant mice containing genetic and/or biochemical alterations that affect autoreceptors (see P.T. et al., J. Neurochem. 67:1269-1276, 1993). Projects involve the generation of such strains and multidisciplinary approaches to their phenotype analysis. A strong background in molecular biology and/or neurobiology is preferred. Send curriculum vitae and names of three references to: Laurence Tecott, M.D., Ph.D., Department of Neuroscience, Center for Neurobiology and Psychiatry, UCSF, San Francisco, CA 94143-0984. The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Yale University School of Medicine, Department of Psychiatry, Psychiatric Genetics: for research using genetic linkage and association techniques, and mutational analysis. Psychiatric disorders: gene dosage (aneuploidy), polygenic disorder, substance abuse, and alcoholism. Send curriculum vitae with names of three references to: Joel Gelboin, M.D., 116A2, West Haven VA Medical Center, 950 Campbell Avenue, West Haven, CT 06510. Email: gelboin~joe@cs.yale.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately for Ph.D.s in neuroscience to study the role of endogenous neurotransin in neurodegeneration. Interested candidates possessing experience in using isolated nerved terminals, stereotaxic injection, and cell culture methods should apply. A brief curriculum vitae and statement of research interest, and names and telephone numbers of three references to: Dr. Michael B. Mattman, 11G, VA Medical Center, 11 Jefferson Barracks Drive, St. Louis, MO 63125.

NEUROSCIENTIST

POSTDOCTORAL RESEARCH ASSOCIATE position available for work in a multidisciplinary laboratory studying cellular and molecular basis of response of developing neural tissue to injury. Systems include developing mammalian and frog embryos, organotypic brain slice cultures, neuronal cell line culture with emphasis at all levels on cytokine regulation of neural function. Methods to be employed include mammalian fetal surgery, molecular biology, confocal microscopy, immunochemistry, calcium measurements, and whole cell patch clamp. Guarantees one year position with strong potential for two additional years of support. Contact: Dr. Charles F. Ide, Deputy Director, Center for Bioenvironmental Research and Department of Cell & Molecular Biology, Tulane University, 604 Boggs Hall, New Orleans, LA 70118. Telephone: 504-862-8370; Email: cide@mcw.tulane.edu.

GENETIC DISORDERS OF BONE

Applicants invited for POSTDOCTORAL POSITION to investigate genetic aspects of bone matrix and bone matrix gene expression. Experience in biochemistry and the yeast two-hybrid system is required. Send curriculum vitae, summary of your work, pre-reprints, and addresses of three references or call: Heimo Riedel, Ph.D., Co-Sec. Professor, Department of Biology, Harvard University School and Joslin Diabetes Center, 1 Joslin Place, Boston, MA 02215-5397. Telephone: 617-732-2601, or -2603; FAX: 617-732-2593.
Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. Currently, we are seeking a Scientist to focus on protein and gene expression systems as a member of our Cell and Molecular Biology Department in the beautiful San Francisco Bay Area.

**SCIENTIST**

**Protein/Gene Expression**

Calling on your skills and experience in *E. coli* and yeast expression systems, inducible mammalian expression systems, cell culture and mammalian transfection techniques, you will design and construct expression systems for a wide variety of core and research projects within Berlex. Along with a Ph.D. in molecular biology, biochemistry or genetics, you will need at least 4 years’ experience in the construction, optimization and development of protein expression vectors supported by a broad range of expertise in molecular biology and gene expression. Excellent communication and interpersonal skills are essential to interact with project leaders and other members of our research team.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your CV/resume to: BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., DEPT. 955-018, RICHMOND, CA 94804-0999. Principals only, please. EOE.

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**Frontline Science wins the Australia Prize**

The 1995 **Australia Prize** was recently awarded to four pioneers in remote sensing, the observation of the Earth by instruments carried in aircraft or orbiting satellites.

Three Australian scientists, Dr Ken McCracken, Founding Chief of the CSIRO’s Division of Mineral Physics, and his colleagues Dr Andrew Green, Director of the Cooperative Research Centre for Australian Mineral Exploration Technologies, and Dr Jonathan Huntington of the CSIRO’s Division of Exploration and Mining, shared the $300,000 award with Dr Richard Moore, Emeritus Professor of Electrical and Computer Engineering at the University of Kansas.

Between them, the winners of this year’s **Australia Prize** have made an enormous contribution to human welfare, literally showing the Earth in a new light.

**Nominations called for the 1996 Australia Prize**

The **Australia Prize** is a prestigious international award for outstanding achievement in selected areas of science and technology which promote human welfare. The prize, which consists of $A300,000 and an inscribed medal (picture above), was instituted by the Australian Government in 1989.

The 1996 **Australia Prize** will be awarded in the field of Pharmaceutical Design.

This field embraces any aspect of rational drug design and draws on many disciplines including biochemistry, clinical research, computer-aided design, crystallography, human biology, pharmacology, physiology, toxicology, statistics and other related fields.

**Nominations for the 1996 Australia Prize** close on 31 July 1995. More information about nominations is available from the Australia Prize Secretariat at the following address:

Australia Prize – GPO Box 9839, Canberra, ACT 2601, Australia, Fax: 61-6-276-2002.

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**Senior Scientist**

**Mass Spectrometry/Bioanalytical**

Southern California

Allergan, a Fortune 500 company and a global leader in specialty therapeutic products, is offering an outstanding opportunity to supervise a mass spectrometry/bioanalytical facility in our Department of Pharmacokinetics. The purpose of this facility is to develop sensitive mass spectrometric assays and to characterize the metabolic fate of drug candidates.

Responsibilities include analyzing/interpreting mass spectrometric data, assessing/developing/validating mass spectrometric bioanalytical assays for in-house analysis, preparing/releasing reports, staffing/training and identifying/evaluating contract laboratories. The selected candidate will also contribute to other R&D areas.

Requires a Ph.D. in Chemistry/related field or a Ph.D. in Pharmacology/similar area and 5+ years industrial mass spectrometry experience in drug metabolism/bioanalysis using GC/MS and LC/MS. Must have the ability to design, interpret and execute mass spectrometric experiments, working knowledge of gas chromatography and high pressure liquid chromatography, GLP compliance issues and human/animal drug metabolism and the ability to maintain/troubleshoot complicated analytical equipment.

We reward our employees with a competitive salary, an excellent benefits package and a great working environment. Please send resume to: Allergan, Human Resources Dept., Attn: JSPK, 2525 Dupont Drive, T2-18, Irvine, CA 92617. An Equal Opportunity Employer.

Advancing the Science of Health Care.

**ALLERGAN**
POSTDOCTORAL FELLOW IN NEUROBIOLOGY

POSTDOCTORAL POSITION available immediately, to study communication between the immune and peripheral nervous systems in vitro. Sensory and sympathetic neurons in intact ganglia or in acute isolation are examined with electrophysiological (current clamp), immunological (active and passive sensitization) and optical (caged second messengers) techniques to address questions about neurotransmission and inflammation. We are identifying signaling molecules and membrane mechanisms underlying (short 10 minutes)- and long-term (hours) central excitatory and synaptic transmission following antigenic activation of immune cells. A strong background in cellular electrophysiology is desired. Salary consistent with experience; up to four years of support available. Send a CV, list of references, and phone number to: Dr. Nancy Weinrich, University of Maryland School of Medicine, Room 4-0002 RBB, 655 West Baltimore Street, Baltimore, MD 21201. FAX: 410-706-0032; Email: dweinric@umabnet.umd.edu.

ASSOCIATE RESEARCH SCIENTIST in Pharmacology at Columbia University. Applicant must have Ph.D. degree with experience in biochemistry and molecular toxicology to study transcriptional mechanisms in cardiac myocytes. Please send curriculum vitae and names of three references to: Dr. Susan F. Steinberg, Department of Biological Chemistry, College of Physicians & Surgeons of Columbia University, 630 West 168 Street, New York, NY 10032. Columbia University is an Affirmative Action/EQUAL OPPORTUNITY/AFFIRMATIVE ACTION Employer. Minority and women are encouraged to apply.

CLINICAL CHEMISTRY RESEARCH POSTDOCTORAL FELLOWSHIPS at Mayo Clinic. Seeking applicants for two year ComACC-approved fellowship directed toward qualified individuals (Ph.D. or M.D. required) pursuing careers in clinical chemistry. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry. Applications on file by October 31, 1995, will be considered for appointment beginning in July 1996. Contact: Mary F. Burritt, Ph.D., Division of Clinical Biochemistry & Immunology, Mayo Clinic, Rochester, MN 55905, for more information. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Employer.

LANDSCAPE ECOLOGIST

Applications are invited for this position at the Center for Forested Wetlands Research, USDA, Forest Service, Charleston, South Carolina. Research will involve the study of forested wetland landscapes with applications to ecosystem dynamics, ecosystem management, and global change. This is a permanent, full-time position (GS-12, $42,600 to $55,400). Applicants should have a Ph.D. or equivalent in an appropriate ecological discipline or experience with remote sensing and modeling. Direct questions about the position to: Dr. Carl Trettin, 803-727-4271. Applicants should submit a letter of application, curriculum vitae, transcripts, names of three references, Qualification and Scientific Fact Sheet, statement of citizenship and veteran preference forms by May 12, 1995. Inquiries and submission of application materials should be directed to: Ms. Carmen Everett, Southern Research Station, P. O. Box 2680, Asheville, NC 28802. Telephone: 704-257-4342; FAX: 704-257-4840.

The Department of Surgery at Rhode Island Hospital is seeking a RESEARCH ASSOCIATE who would qualify for a faculty position at the level of Instructor (Re- search) with the Brown University School of Medicine. An individual with a strong interest in the field of molecular carcinogenesis to participate in research with particular emphasis in human breast and colon cancer. Candidates should have a Ph.D. degree in post-graduate study or equivalent, in biological or molecular biology. Applications are expected by June 30, 1995. Screening will begin on that date and continue until a satisfactory candidate is located. The search is closed with three references and a statement of research objectives to: Jorge Albina, M.D., Chairman, Search Committee, Surgery, Rhode Island Hospital, 222 Richmond Street, Providence, RI 02903. Rhode Island Hospital is an EQUAL OPPORTUNITY/AFFIRMATIVE ACTION Employer and actively solicits applications from minority and protected groups.

VETERINARY MEDICAL OFFICER (GS 11/12/13). The USDA, ARS, Avian Disease and Oncology Laboratory, East Lansing, Michigan, is seeking a veterinarian with a background in poultry medicine, poultry immunology, and the epi- demiology and immunopathology of Marek’s disease in chickens. This is a base-funded high priority research program which utilizes a team-oriented, multidisciplinary approach and involves a strong interface with the poultry industry. Knowledge of pathology, virology and immunology are required. An M.S. or equivalent degree required plus at least one year of professional veterinary research experience. A Ph.D. and/or equivalent research experience required at grades 12/13. Salary commensurate with experience (range $35,578 to $65,915). For information about application procedures, call 517-337-6825.


POSTDOCTORAL RESEARCH SCIENTIST: Two-year position available July 1, 1995, for a Marine Chemist or Geochemist to study the sediment geochem- istry, paleogeography and paleoclimatological impact of glacial isotope records of the North Atlantic (Red Sea). Applicants must have a recent Ph.D. in Chemical Oceanography or a related field with a background in stable isotope, trace element, or isotopic systems. Send curriculum vitae, statements of research interests and the names and addresses of three references to: Dr. Philip N. Fredrich, Director, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA 30332-0340. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT

The University of Virginia Department of Medicine seeks a RESEARCH ASSISTANT for the Division of Endocrinology and Metabolism. Candidates should be able to conduct in vivo and in vitro experiments in rats (experimental design, surgical techniques, treatment, sampling methods), measure specific hor- mones in blood and adrenal tissue, and present their data in the laboratory, prepare manuscripts and presentations to scientific meet- ings. Submit curriculum vitae and three letters of refer- ence by June 1, 1995, to: Daniel J. Haisenleder, Ph.D., UVA, Department of Medicine, UVA Medical Center, 5041 MR-4 Building, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

SPECIAL MRC STUDENTSHIP

Applications are invited for an MRC STUDENTSHIP for a recent MSc in molecular medicine or equivalent to be used in the UK to complement an MRC Programme Grant on fundamental studies of the bone/implant interface. The project will address the mechanisms of adhesion of non- collagenous bone proteins to materials surfaces with a view to explaining the apparent differences between bonding and non-bonding biomaterials. Candidates with excellenttrack records should have, or anticipate having, a degree in biochemistry, chemistry, chemical engineering or other relevant discipline. The University of Toron- to offers an excellent program of support training. Dr. J. E. Davies, Centre for Biomaterials, University of Toron- to, 170 College Street, Room 330, Toronto, Ontario M5S 1A1.

RESEARCH ASSOCIATE for university in central Ohio. College has 12,000 students. Salary to begin at $25,000. Applications received by May 15 will be considered. Send résumé to: J. Davies, JOB NO. 1084, Ohio Board of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSTDOCTORAL FELLOW in CARDIOLOGY: Available July 1, 1995, to study the cellular and molecular regulation of cardiogenic differentiation. Projects include the characterization of factors which activate cardiac-spe- cific gene expression and the study of post-translaton- polarity in cardiac mesoderm. Training in molecu- lar and developmental biology is desired. Please send curriculum vitae and the names of references to: Dr. David Bader, Department of Physiology, University of Cardiol- ogy, Vanderbilt University School of Medicine, Nash- ville, TN 37232-6500. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available July 1, 1995, for an MD/PhD student to work on a project related to basic research related to birth defects. Candidate selected will be able to work with one of 12 investigators associ- ated with the Cardiovascular Research Training Program. Candidates should have strong background in Molecular Biology/Biochemistry. U.S. citizenship or permanent residency is required. Send curriculum vitae and names of three references to: Dr. J. G. Thorbecke, New York University Medical Center, Department of Pa- thology, 550 First Avenue, New York, NY 10016.

WORKSHOP ON MOLECULAR EVOLUTION

August 6–18, 1995

Plus Extended Social Session August 19–25, 1995

A series of lectures and discussions exploring multiple approaches to molecular evolution, with a computer lab- oratory for phylogenetic and sequence analysis. Current topics: genetics of regulatory plasticity; cladistics and phylogenetic tree reconstruction, evolution of genomes and origins of major lineages, the evolution of development, and appli- cations of molecular techniques to studies of population biology and microbial diversity will be addressed. Enroll- ment limited to 60 students. Co-Directors: Mitchell L. Sogin, Marine Biological Laboratory and Daniel Davi- son, University of Houston. Faculty: Douglas Eernisse, California State University; Andrew Ellington, Univer- sity of Indiana; Matthew Meselson, University of Wash- ington; Barry Hall, University of Rochester; Daniel Hartl, Harvard University; David Hillis, University of Texas; Ron Kessel, Kent State University; James Lake, UCLA; Laura Landweber, Princeton University; David Maddison, University of Arizona; Lynn Margu- lits, University of Michigan; David Page, Carnegie Institution; Frank Sanger, University of California, College; Francois Michel, CNRS; Roger Milk- eman, University of Iowa; Gary Olsen, University of Illi- nois; Norman Face, Indiana University; Rudy Raff, In- diana University; Michael Tyler, MB; David Swoford, Smithsonian Institution; and Bruce Walsh, University of Arizona.

Deadline: $700 (room and board available at no addi- tional charge).


Information and application forms can be obtained by writing to: Admis- sions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-289-7401; Internet: www.mbl.edu; World Wide Web: http://www.mbl.edu/
Tenure-Track And Postdoctoral Opportunities.

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

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**Tenure-Track Position**

**Assistant Professor Equivalent**

**Nuclear Magnetic Resonance**

Robert S. Balaban, PhD

Seeking to appoint a junior scientist to initiate an independent program of basic and applied clinical research. Applications are invited from candidates with demonstrated potential for creative research in physiology using in vivo nuclear magnetic resonance (NMR). Experience in whole body, high field NMR applications is desirable. The applicant will be the clinically responsible physician for human studies in the LCE and, therefore, must be board-certified in his/her medical specialty. Applications must be received within six weeks of the publication of this advertisement. Laboratory of Cardiac Energetics (OE-77), NHLBI, Building 10, Room B1D161, 10 CENTER DR MSC 1668, BETHESDA MD 20892-1668.

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**Postdoctoral Positions**

**HIV Gene Regulation**

Sundararajan Venkatesan, MD

Research efforts are focused on 1) the functional mechanisms of HIV-1 Rev transactivator and associated cellular co-factors and HIV-1 RNA binding cellular protein(s); and 2) the mechanisms of receptor down-regulation and cell signalling modulation induced by HIV-1 Nef protein. Applicants must be well trained in molecular and cell biology. Training and experience in virology and immunology are highly desired. Laboratory of Molecular Microbiology (OE-77), NIAID, Building 10, Room 6A05, 10 CENTER DR MSC 1576, BETHESDA MD 20892-1576.

**Molecular Biology of Eye and Ear Development**

Heinz Armbrecht, MD

In mice and humans, mutations in the microphthalmia transcription factor gene result in abnormalities in pigmentation in skin, eye and inner ear and concomitant deafness. Studies focus on elucidating the mechanisms of action of this factor in normal and abnormal development. Candidates should have a background in molecular or developmental biology and have less than three years of postdoctoral experience. Laboratory of Developmental Neurogenetics (OE-77), NINDS, Building 36, Room 5D04, 36 CONVENT DR MSC 4160, BETHESDA MD 20892-4160.

**Molecular and Developmental Neurogenetics**

Lynn D. Hudson, PhD

Current research focuses on 1) how an oligodendrocyte selects an array of genes, including transcription factors, and integrates their action; and 2) unravelling the genetics of a complex trait, namely epilepsy, as another approach to defining genetic interactions. Candidates should have a molecular biology/developmental background and less than three years of postdoctoral experience. Laboratory of Developmental Neurogenetics (OE-77), NINDS, Building 36, Room 5D06, 49 CONVENT DR MSC 4160, BETHESDA MD 20892-4160.

**Neurobiology of Essential Fatty Acids**

Norman Salem, Jr., PhD

A neurobiologist to study the functional deficits involved in the loss of docosahexaenoic acid (22:6n3) from the nervous system. Relevant skills for this position include behavioral, biochemical, anatomical or physiological techniques for assessing brain and retinal function. Experience with artificial rearing of rats or fetal alcohol syndrome is desirable, and candidates must have less than five years of postdoctoral experience. Laboratory of Membrane Biochemistry and Biophysics (OE-77), NIAAA, 12501 Washington Avenue, MSC 8205, BETHESDA MD 20892-8205.

**Polysaccharide Biosynthesis**

Willie F. Vann, PhD

Position for either a biochemist with experience in enzymology and molecular biology to characterize enzymes related to biosynthesis of polysialic acid in bacteria and eucaryotic cells, or an organic chemist with experience in the synthesis of carbohydrates to synthesize oligosaccharide protein conjugate vaccines and substrate analogues for enzymes in polysialic acid biosynthesis. Applicants must have less than three years of postdoctoral experience. Laboratory of Bacterial Polysaccharides (OE-77), FDA/CBER, (HFM-428), 1401 Rockville Pike, Rockville, MD 20852-1448.

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**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7,E,Even,". When connected to NIH, type in "vrt100" for terminal emulation, "F5E" for initials, and "AJLI" for account number.

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

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**To Apply**

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

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National Institutes Of Health

Office Of Education

The NIH is an Equal Opportunity Employer
The Jet Propulsion Laboratory is seeking a Visiting Senior Scientist (VSS) to serve as Senior Scientist to the Space Station Program. As such, this VSS will be the principal advisor to the Space Station Program Director at NASA Headquarters in all areas related to utilization within each phase of the Space Station Program, including the early Mir Program.

Responsibilities will include coordinating national and international user communities relating to research in science, technology, and associated commercial programs, and fostering close working relationships and coordination with the NASA user communities and the NASA Advisory Committees and Subcommittees which are responsible for oversight of the International Space Station. The VSS will serve as an internal advocate to the space program regarding station capabilities and the responsiveness of the program to requirements put forth by diverse user communities, including industrial participants. The purpose of these activities is to ensure that the full range of user requirements are properly integrated with program capabilities. The incumbent also serves as an articulate spokesman for space station to the general public and Congress.

A PhD (or equivalent research experience) in a technical field is required. Applicants should have experience working with diverse communities, and have demonstrated organizational and communication skills because of the emphasis of the Space Station Program, preference will be given to experience in the microgravity and life sciences area. For more information about the scope of the program and position responsibilities, please contact Dr. Edmond M. Reeves at (202) 358-2560.

Tenured faculty members are the preferred choice although qualified individuals from non-profit research institutions may also be considered. This position is open for immediate filling. Normal assignment in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. Citizens or Permanent Residents and are expected to return to their home institution following the NASA assignment. Please provide Curriculum Vitae, bibliography and the names of four references to Dept. T39, Dr. Frederick Chair, Jet Propulsion Laboratory, 4800 Oak Grove Drive M/S 183-300, Pasadena, CA 91109. (818) 354-8251. An Equal Opportunity Employer M/F.

JPL/NASA Visiting Senior Scientist Office of Space Flight

The University of Minnesota invites nominations and applications for the position of dean of the College of Agricultural, Food, and Environmental Sciences and associate director of the Minnesota Agricultural Experiment Station. The University of Minnesota College of Agricultural, Food, and Environmental Sciences (CAFS) with its 10,000 student alumni and the landscape arboretum is a key part of a large land-grant research University that is located in a metropolitan area of 2.2 million people. Minnesota has a high rank nationally in food and agricultural products, a very diverse agricultural base, and the home for a large number of food processing/processing and horticultural businesses. Many of the college are not only involved with food and agriculture, but also with environmental issues associated with the production, processing, marketing, and distribution of food and agricultural products. The college has a comprehensive budget totaling approximately $400 million. The college employs over 600 in professional and administrative staff, and provides instruction to 900 undergraduate and 425 graduate students. Many of the faculty, departments and interns are nationally and internationally recognized for the quality and innovation of their disciplinary and interdisciplinary teaching, extension, and research programs. The dean is the chief executive and academic officer of the CAFES and associate director of the Minnesota Agricultural Experiment Station (MAES). This position has administrative responsibility for college faculty and programs, the recurring station budgets in the college and branch stations, and shared responsibility for state extension specialists integrated into college departments.

Responsibilities include: Overall leadership for disciplinary and interdisciplinary teaching, research, and outreach efforts in agriculture; administration of fiscal planning and management; personnel; and collaborative work with students, alumni, staff, faculty, administrators, and external constituencies to facilitate effective delivery of programs. The dean and associate director is the leading champion for the CAFES in the promotion of mutual understanding of the needs, programs, and accomplishments of the college to the University, the public, and constituency groups. This person will work with the Director of MAES to create and sustain the MAES vision and programs, in cooperation with a team of associate directors who represent other colleges that contribute to experiment station programs.

Required qualifications include: An earned doctoral or comparable degree; experience in food, agricultural, or environmental sciences; demonstrated record of administrative and leadership experience; demonstrated knowledge of teaching, research, and outreach programs; demonstrated excellence in verbal and written communication; demonstrated commitment to affirmative action, cultural diversity, and equal opportunity for women and minorities; and demonstrated ability to work effectively with and/or lead people in a diversity of programs. Desired qualifications include: Demonstrated experience with agricultural, food, or environmental research, teaching or outreach within the context of the land-grant mission for domestic and international programs; three years administrative and leadership experience, preferably in an interdisciplinary setting including experience in planning, budgeting, personnel systems, and coordinating and supervising administrative colleagues; successful career experiences working with constituency groups, donors, advisory committees, and/or other boards.

This position will report to the University of Minnesota Provost for Professional Studies and Director of the MN Agricultural Experiment Station. This is a three-year fixed-term position. The University academic administration agrees to recommend the University to the University Board of Regents subject to renewal for renewal. Academic rank and tenure are dependent upon qualifications and vote of peer faculty in the college. The starting date is August 1, 1996. Salary level is commensurate with educational and career experience. The University’s attractive fringe benefits program includes participation in a faculty retirement plan, health and dental programs, and life insurance coverage. Nominations for this position must be submitted by May 1, 1995. The position is subject to review by the Academic Policy Committee, Academic Senate. Application materials should include a letter of interest, a curriculum vitae, and a list of five references who have already been contacted by the applicant.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.
The Rockefeller Foundation seeks a postdoctoral agronomist on behalf of the Government of Malawi for a Foundation-funded program of maize research in Malawi. The Government of Malawi’s Department of Agricultural Research has been implementing an interdisciplinary maize improvement research plan since 1988 with Foundation support. Advances have been made in understanding the developing of improved varieties but major problems remain in understanding the reasons for poor maize yields. Current focus is on the nutrition and management of the maize crop under smallholder financial and labor constraints. Agroforestry, legume intercropping, crop rotation, and organic matter management, with and without inorganic fertilizers, are all being investigated. Over 80% of the Malawian population relies on maize as a staple food. Maize is planted on approximately 70% of arable smallholder land each year. Most of the maize varieties grown are unimproved and of relatively low yield potential. The successful applicant will have an excellent academic record, developing-country field-work experience, and the ability to work cooperatively as a member of a research team. The agronomist will be assigned to the Department of Agricultural Research with a joint appointment to the Maize and the Agroforestry Commodity Teams. He or she will develop innovative research ideas, in collaboration with the Commodity Team Leaders and participate fully in the work of the Teams. The agronomist will join a well-qualified group of national scientists and two other postdoctoral fellows on assignment to the Department.

The position will be based at Chiteme Research Station outside Lilongwe, the capital of Malawi, but will require extensive field work throughout Malawi. The Lilongwe office of the Rockefeller Foundation will provide local logistical support for the post. For more information send a letter of interest, resumes, and three letters of reference to:

Malawi Postdoctoral Search
Agricultural Sciences Division
The Rockefeller Foundation
420 Fifth Avenue
New York, New York 10018-2702

The Rockefeller Foundation is an Equal Opportunity/Affirmative Action Institution.
The Analytical Biochemistry Department of Pioneer Hi-Bred International, Inc. is seeking applicants for its ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment.

**SENIOR RESEARCH ASSOCIATE, NUCLEIC ACID ANALYSIS (JOB #1386-J)**

Primary responsibilities of this position will be to interact extensively with other researchers to design and conduct nucleic acid analysis for transgenic plant projects. This person will conduct analyses, supervise research associates involved in the same types of analysis, and communicate the results. Trouble-shooting and development/testing of new techniques are also important.

**EDUCATION/EXPERIENCE:** MS degree or equivalent in molecular biology, biochemistry, or related field plus 2 years of relevant research experience are required. Applicants should have experience in nucleic acid analysis (Southern, PCR, RNA analysis), along with computer and statistical analysis experience. Strong communication skills are essential. Supervisory experience and analytical support experience are preferred.

Application deadline is May 24, 1995.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity Employer. Please send TWO complete sets of your resume and other application materials. Be sure to indicate in your correspondence the JOB #, along with the names, addresses and phone numbers of three references to:

**PIONEER HI-BRED INTERNATIONAL, INC.**

Analytical Biochemistry Dept.
ATTN: Dawn Meyer, Job #1386-J
P.O. Box 1004
Johnston, IA 50131-1004

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**VETERINARY SYSTEMIC PHYSIOLOGY**

The Department of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, University of California, Davis, is recruiting for an **ASSISTANT PROFESSOR OF VETERINARY SYSTEMIC PHYSIOLOGY**. Qualifications: Ph.D. required with advanced training in vertebrate systemic physiology and strong foundation in pathophysiology of animal diseases, DVM or equivalent and strong foundation in molecular techniques preferred; demonstrated aptitude/experience in teaching and ability or potential to secure extramural funds. Documented research record or potential to develop independent research program. Preference given to those whose research interests complement existing departmental programs.

Responsibilities: Teaching: 1) DVM professional course lectures and laboratories in systemic physiology including animal endocrine, renal and gastrointestinal systems; 2) participation in graduate academic programs (MS and Ph.D.); and 3) undergraduate instruction in physiology. Research: development of creative, independent and productive research program, with publication of results in professional and scientific journals; provide leadership in directing research projects of graduate students. Service: University and public service through committee work, participation in professional organizations, continuing education and other appropriate means required.

To apply, submit: 1) letter of intent outlining special interest in position, overall related qualifications, experience and career goals; 2) C.V.; 3) research and teaching goals; summary; and 4) names, titles and addresses of 3 references to: Dr. Dallace M. Hyde, Department Chair, Department of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, University of California, Davis, CA 95616. Applications accepted through July 15, 1995 or until candidate is identified. The University of California, Davis is an affirmative action/equal opportunity employer.

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**GENERAL INFORMATION**

- **Salary:** $75,888/annually (to be determined based on qualifications and experience.)
- **Salary Range:** R3-5, $40,524 - $75,888/annually
- **Equal Employment Opportunity:** Applicants are invited from all qualified individuals, regardless of race, color, national origin, sex, age, disability, sexual orientation, or veteran status.
- **Applications:** Applicants must be nationals of the U.S. and have degrees equivalent to those earned in U.S. accredited colleges or universities.
- **Position Number:** 2540 Dole Hawaii
- **Closing Date:** June 6, 1995
Research

IN CELL BIOLOGY

RESEARCH SCIENTIST

The Division of Cell Biology of The Hospital for Sick Children, a major teaching hospital affiliated with the University of Toronto, is seeking a Staff Scientist with basic research interests in one or more of the following areas: signal transduction mechanisms; ion or non-electrolyte transport; membrane biosynthesis, dynamics and traffic.

Start-up funds and laboratory facilities will be made available in the Hospital. The appointment will be at a rank equivalent to Assistant or Associate Professor, leading to a permanent Staff position. Research Institute Scientists are normally appointed to the University of Toronto.

Please send curriculum vitae, a brief description of research interests and three reference letters before July 30, 1995 to Dr. Sergio Grinstein, Division of Cell Biology, The Hospital for Sick Children, 555 University Ave., Toronto, Ontario, Canada M5G 1X8.

THE HOSPITAL
FOR SICK CHILDREN

Vanderbilt University

Molecular Geneticist

A tenure track faculty position is available at the Vanderbilt Cancer Center in the area of Molecular Genetics of Gastrointestinal Malignancies. Experience in molecular genetics and a willingness to study gastrointestinal neoplasia are required. Investigators of all academic ranks are encouraged to apply. A generous start up package will be provided. The investigator will have a primary appointment in a Medical School department and will be housed in newly-constructed Gastrointestinal Cancer Center space. Women and minorities are especially encouraged to apply.

Vanderbilt University is an Equal Opportunity/Affirmative Action employer. Candidates should send a curriculum vitae, an outline of research plans, and three letters of recommendation to:

Robert J. Coffey, M.D.
Vanderbilt University
1161 21st Ave. South
C-2104, Medical Center North
Nashville, TN 37232-2279
Fax (615) 343-6229
Tel (615) 343-6228

POSTDOCTORAL
POSITION

IN LEUKOCYTE BIOLOGY
AND ATHEROSCLEROSIS

The primary focus of this position will be to characterize the role of leukocytes in the pathogenesis of atherosclerosis. The successful candidate will be expected to establish in vitro systems for application in in vivo murine models of hyperlipoproteinemia and atherosclerosis. These model systems will be used to investigate the leukocyte cell biology of inflammation as it relates to atherosclerosis. A strong background in leukocyte biology and the capability to work independently is required. Applicants with Ph.D. degrees are preferred, but those with MD degrees and relevant experience will be strongly considered. Salary will be commensurate with NIH post-doctoral fellowship guidelines and experience. Send resume and three letters of reference to: Robert J. Nicolosi, Ph.D., University of Massachusetts Lowell, Rolf Street, Weed Hall, Room 305, Lowell, MA 01854.

UMass Lowell

The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX, H/V, ADA 1990 employer.
AMRAD, Australia’s leading R&D-based pharmaceutical company was established in 1987 to provide a vehicle for the development of Australian biomedical research. During its short life, AMRAD has developed an outstanding portfolio of research projects, established many international alliances and set up a pharmaceutical marketing subsidiary of considerable impact.

As part of its mission to support pharmaceutical discovery activities arising from Australian research and in particular an expanding portfolio of virological projects, including HIV and HBV drug candidates and a commitment to further drug discovery through medicinal chemistry and natural product screening, AMRAD Operations are seeking a molecular virologist to join their exciting research team.

Based in Melbourne, it is envisaged you will have at least two to five years postdoctoral experience in the area of molecular virology either in a research based or commercial setting. You will be an expert in the molecular biology of HIV and/or HBV and possess a broad knowledge of viral diseases. You will have well developed interpersonal and communication skills, be highly interactive and flexible as in this role you will interact with both AMRAD laboratory personnel and senior investigators of collaborative research centres. You will be dedicated to the discovery and development of effective antiviral drugs.

An excellent salary package commensurate with work experience will be negotiated with the successful applicant and where appropriate assistance with relocation will be offered.

For a confidential discussion about this exciting opportunity, call Dr Amanda Reid on (61 3) 654 8034 or writefax your details to:

DARYL ALEXANDER & ASSOCIATES
Level 4, The Block Arcade,
282 Collins Street, Melbourne Victoria 3000, Australia
Fax (61 3) 654 1481

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**DISEASE GENE DISCOVERY**

Millennium is a rapidly growing biopharmaceutical company researching the genetic basis of common diseases and developing therapeutics using this understanding. Our synergetic approach isolates genes with direct relevance to disease pathologies, laying the foundation for progressive achievements in drug discovery and development.

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**SCIENTISTS**

**SEQUENCE ANALYSIS**

- Lead a group responsible for sequence analysis including contigation, identification of potential coding sequence from genomic sequence and detailed analysis of potential function/structure of novel genes based on their conceptually translated amino acid sequence. A strong emphasis will be placed on analysis of emerging sequence data bases as an engine for new discovery. A Ph.D. with 3-5 years’ post-doctoral experience and strong computational biology experience required. Code: SC1

**HUMAN GENETICS**

- Lead a group focused on the genetic mapping of human diseases with an emphasis on polygenic disorders. Also participate in study design, data analysis and continued development of automated genotyping. A Ph.D. and 2-3 years’ post-doctoral experience in human genetics, genotyping and gene mapping required. Code: SC2

**MOUSE GENETICS/ASSOCIATE SCIENTIST**

- Assist in the positional cloning of monogenic and polygenic syndromes/mutations in the mouse that will subsequently lead to the cloning of human disease genes. A Ph.D. with 6-2 years’ post-doctoral experience with emphasis in molecular biology and mammalian genetics. Code: SC3

**GENETIC EPIDEMIOLOGIST/STATISTICAL GENETICIST**

- Ph.D. level scientist with two or more years of post-doctoral work and a strong publication record. Ideal candidate will have a strong interest in genetic mapping of complex traits in humans as well as model systems. Expertise in application of non-parametric methods essential. An interest in developing new methods for data analysis would be encouraged. Candidate will perform an essential role in selection and design of studies as well as data analysis. He/she will also participate in the management of external collaborations, work closely with the Human/Mouse genetics groups as well as Bio-informatics and assume a leadership position in the genetic analysis group. Code: SC4

**GENETICS/BIOPHARMACEUTICALS**

**OPPORTUNITIES**

**GLOBAL CAREER OPPORTUNITIES**

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**The Victor Chang Cardiac Research Institute**

**Faculty Positions**

The VCCRI is affiliated with the University of New South Wales and is part of the St Vincent’s Hospital complex which includes the Garvan Institute of Medical Research. Research programmes of the VCCRI involve the application of state-of-the-art molecular, cellular and biophysical approaches to research into cardiovascular disorders, with emphasis on heart muscle diseases. The Institute is soliciting applications for FACULTY POSITIONS at the Assistant, Associate or full Member level. Candidates should have a continuous record of research excellence. With support from the Institute, successful candidates will be expected to establish independent and collaborative research programmes that are strongly supported by external funding. Candidates with special interests in developmental biology, molecular cardiology, including cardiac myocyte growth and hypertrophy, transplantation biology, and the genetics of cardiovascular diseases, are particularly encouraged to apply. Candidates should send a curriculum vitae, brief description of research interests, and names and addresses of three references to: Professor R. Graham, Victor Chang Cardiac Research Institute, 376 Victoria Street, Darlinghurst, Sydney NSW 2010, Australia.
Postdoctoral Scientist

Pulmonary Pharmacology

SmithKline Beecham, a worldwide leader in pharmaceutical research, has a challenging opportunity for a Postdoctoral Scientist to join our Department of Pulmonary Pharmacology.

The selected candidate will conduct research on receptor localization and intracellular activation pathways in the lung using molecular biological and biochemical techniques. The incumbent will also be expected to contribute to ongoing drug discovery efforts, publish results in peer-reviewed journals and participate in national science meetings.

Qualified candidates must have a Ph.D. in Molecular Biological Science, Biochemistry or Pharmacology. Experience in standard molecular biological techniques essential, and knowledge of immunohistochemistry and/or in situ hybridization preferred. Previous postdoctoral experience preferred. A demonstrated record of publications in major scientific journals desirable.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits package and a stimulating team environment. For confidential consideration, send your resume to: SmithKline Beecham Pharmaceuticals, Employment Administrator, Dept. #H0297, P.O. Box 401, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

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IN VIVO MODELING

We currently seek a Ph.D. or MS-level scientist with the ability to design and complete experiments in clinically relevant biological systems in one of the following areas: Endothelial Cell Biology, Platelet Biology, Tumor Biology, or Hematopoiesis.

Candidates with a Ph.D. typically must have postdoctoral training or related experience and experience with in vivo modeling. (Job Code: OXP-SC-2410)

Candidates with a MS typically must have 8-10 years’ experience with in vivo modeling. (Job Code: OXP-SC-2252)

BONE MORPHOGENESIS

The successful candidate will have a M.D. or Ph.D. in the Life Sciences with postdoctoral training or related experience. Experience in regulatory mechanisms of mammalian bone morphogenesis is also required. Candidates must have experience in establishing in vitro culture systems of bone formation and knowledge of in vivo test systems. Experience in one or more of the following areas is also required: ELISA development, protein purification, molecular biology, and immunohistochemistry. (Job Code: OXP-SC-2452)

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