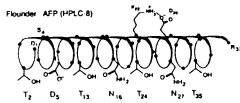


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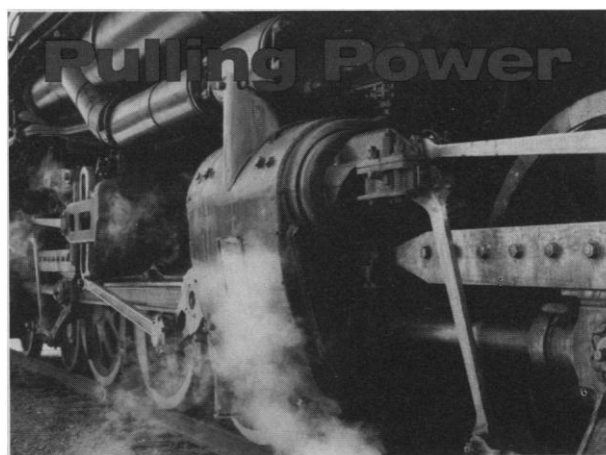
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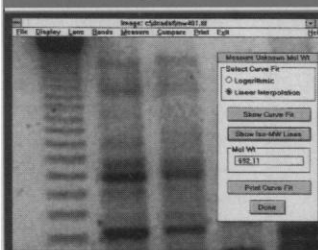


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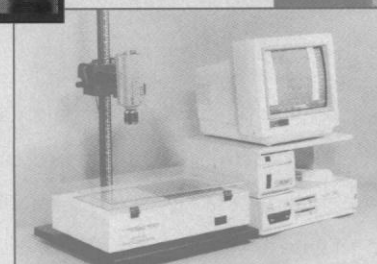
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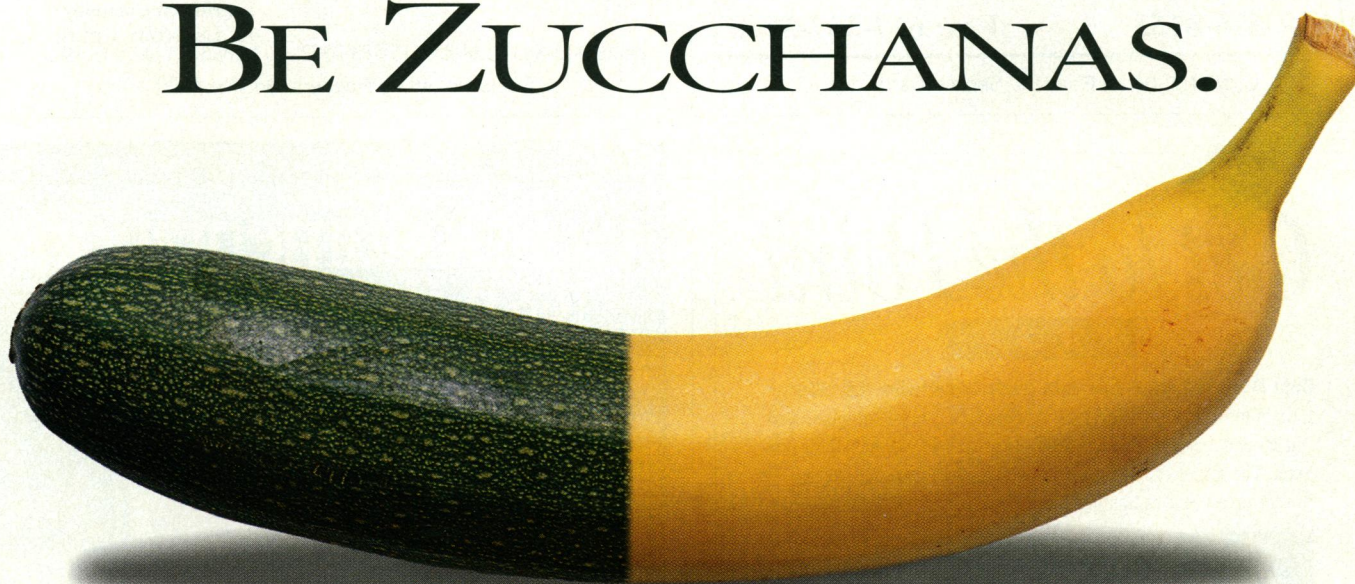
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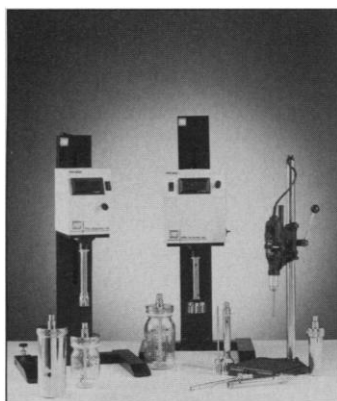
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cessories for these units includes Quick Connect generators, ranging in size from 5 mm to 59 mm in diameter; safety-sealed aerosol containment stainless steel and glass chambers; and a complete series of sealed tube assemblies. **PRO Scientific. Circle 131.**

Molecular Modeling Software

LOOK is molecular modeling software to help molecular biologists use protein modeling to design experiments and interpret results. It offers the tools needed to focus an experiment, to test hypotheses, and to extend and stimulate research hypotheses. LOOK allows the molecular biologist to model site-directed mutants in minutes, to choose among possible experimental strategies, and to understand the structural basis of biological data. The accessory package models an uncrystallized protein to an existing x-ray or nuclear magnetic resonance structure using highly accurate homology modeling techniques. In addition, it allows the scientist to simply click on a structure and find out what is already known and published from

a custom-tailored literature database. It allows the molecular biologist to use the knowledge gained from three-dimensional structure and connect it with sequence information making experiments more focused and efficient. **Molecular Applications Group. Circle 132.**

Scientific Information Management Software

ResearchStation scientific information management software for personal computers provides an integrated workspace in which scientists can gather, combine, and use information in any form: text images, numerical data, graphics, video, and sound. The software is designed to address a problem common to all scientists: management of huge amounts of information in different forms and from different sources. By providing a single framework for managing diverse data sets, ResearchStation offers a new tool for the research process. It allows scientists to work with multiple software applications in a single window, capturing, recording, organizing, visualizing, and sharing data and information from many sources. For collaborative work, security features can protect the integrity of records and prevent unauthorized use while enabling authorized users to share information. **Megalon. Circle 133.**

Neural Cell Isolation Kit

The Papain Dissociation System is a kit to isolate neural cells with consistently high yield and viability. The kit makes use of purified papain and contains all the materials for five separate tissue dissociations. **Worthington Biochemical. Circle 134.**

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Differential Display Kit

The Differential Display Kit can be used to isolate genes based solely on changes in phenotype, and requires no prior knowledge of protein or nucleic acid sequence. This polymerase chain reaction-based method enables the user to analyze any mechanism that involves changes in specific mRNA levels. It is a flexible and comprehensive method for the detection of almost all genes expressed in a particular cell and for the identification of differences in gene expression between different cell types in both mammal and plant systems. Applications include detection of changes in expression patterns in response to either transfected genes or drug stimulation in mammal and plant systems, identification of genes involved in human diseases, discovery of new genes in known fami-

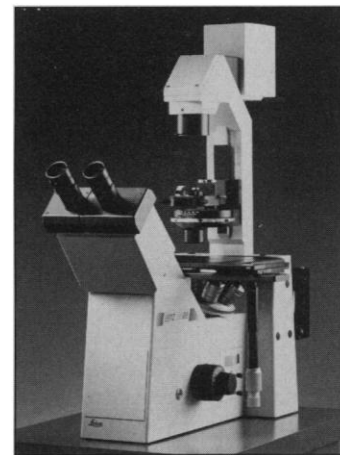
lies, and side-by-side comparison of mRNA from different sources. **Display Systems. Circle 136.**

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A new kit that features purified enzyme preparations saves researchers hands-on labor and produces more uniform results and higher yields in heart cell isolations. The Neonatal Cardiomyocyte Isolation System contains all the materials for five separate tissue dissociations of up to 12 hearts each. **Worthington Biochemical. Circle 137.**

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queous samples with living cultures or cells from beneath without having to penetrate a liquid layer first. There is ample room for tall laboratory vessels on the stage, as there is no objective nosepiece above the sample. The unit is designed for demanding tasks, such as experimental cellular research, genetic research, micromanipulation, and microinjection. **Leica. Circle 138.**

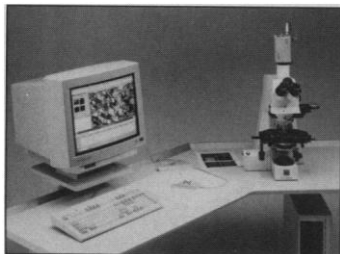
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Protein Size Standards

The Perfect Protein Markers are size standards for use on sodium dodecyl sulfate polyacrylamide gels and protein immunoblots. The markers, ranging in size from 15 to 150 kD, are unique in that they are all bacterially expressed proteins. As such, the sizes of the proteins in the mix are precise because they are free of oligosaccharides, which can cause anomalous migration and fuzzy bands. Each of the proteins in the mix carries the S-Tag peptide, which allows the marker mix to be used as size standards on protein immunoblots by including S-protein alkaline phosphatase conjugate during the second antibody incubation. **Novagen. Circle 139.**

Image Analysis Systems

The Kontron KS series of intuitive image analysis systems provides an unusual degree of user guidance, which makes it possible



to solve even complex image analysis problems quickly and easily. A new contour-based measurement algorithm ensures extremely fast measurements and the Kontron macro interpreter and other functions allow complex problems to be divided into simple steps that are common to most applications. The series is designed in modular fashion for future upgrading. The three models in the series are the KS 100 for simple image analysis problems that are readily solved by interactive measurement, the KS 200 with digitizing and archiving of true color images in video and

studio quality, and the KS 300, a powerful automatic solution for almost all applications. For automatic probe evaluation, a drive module for motorized scanning is available. Another option is a digital camera for high-resolution true color images. **Carl Zeiss. Circle 140.**

Research Reagents

D609, a xanthate compound, is the first highly specific phosphatidylcholine-specific phospholipase C (PC-PLC) inhibitor. It has many potential applications in signal transduction research. ET-18-OCH₃, a synthetic analog of lysophosphatidylcholine, represents a new class of membrane-active agents that show selective cytotoxic activity against neoplastic cells and virus-transformed cells. It has applications in cancer, signal transduction, and cell biology research. ADAM (9-anthryldiazomethane) is a fluorescent and ultraviolet reagent for fatty acid analysis. It can be used to detect picomole quantities of fatty acids and to measure microgram amounts of oxalic acid in samples such as urine. Phosphatidylinositol-specific phospholipase C is a phospholipid degradation enzyme for membrane research. **Kamiya Biomedical. Circle 141.**

Kit Removes DNA Contaminants

The XTreme Spin Column Kit rapidly removes low molecular weight contaminants from DNA solutions or gels. The kit can be used to remove dNTPs, primers, and salts from nucleic acids that are 100 bp to 20 kbp in length. There are no messy resins to deal with. Applications include clean-up of plasmid miniprep DNA, purification of polymerase chain reaction products from primers and dNTPs, desalting of DNA solutions in preparation for subsequent enzymatic reactions, and

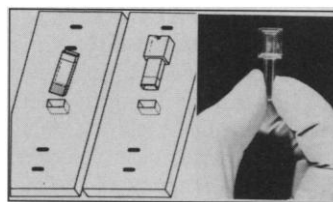
purification of DNA fragments from high resolution agarose gels. **Pierce. Circle 142.**

Fluorophore and Gold Probe

FluoroNanogold is an immuno-probe that combines a fluorophore and a gold particle in a single antibody probe, so that two detection modes are available from one labeling experiment. A sample can be analyzed by fluorescence microscopy to show cellular antigen distribution, then by electron microscopy for high resolution ultrastructural analysis. The Nanogold particle does not quench the fluorescence. The fluorophore, Nanogold particle, and antibody are covalently attached for stability and long shelf life. Fab' fragments that show excellent tissue penetration are used to maintain a small probe size. The probes are currently available as goat anti-mouse, goat anti-rabbit, rabbit anti-goat, and strept-avidin conjugates with fluorescein. **Nanoprobes. Circle 143.**

DNA Recovery from Gels

GeneCapsule is a single-use device for the rapid recovery of DNA from gels. The user simply picks up the DNA band with GeneCapsule and replaces it on top of the gel. Through rapid electroelution, in less than 60 s,



up to 1000 bp of DNA can be recovered. The recovered DNA is ready for ligation, restriction enzyme digestion, sequencing, amplification, random priming, nick translation, and other enzymatic reactions. **Midwest Scientific. Circle 144.**

Literature

1994 Reagent Catalog: Antibodies and Antigens are in Our Blood lists more than 1200 products, including monoclonal and polyclonal antibodies, affinity purified antibodies, precipitating antibodies, custom standards and calibrators, conjugates, and more. **Fitzgerald Industries International. Circle 145.**

1994-95 Research Products Catalog features monoclonal antibodies and related reagents for human cytokines, adhesion molecules, and leukocyte cell surface markers. The antibody reagents can be used in functional studies, flow cytometry, immunoassay development, immunohistology, and other applications. **Antigenix America. Circle 146.**

A Guide to Freeze Drying for the Laboratory assists the user in making informed choices to meet specific laboratory applications. **Labconco. Circle 147.**

Novex Electrophoresis is an 80-page catalog that features a wide range of products, including a variety of precast polyacrylamide gels for both protein and DNA separations; apparatus for running, blotting, and drying gels; premixed buffers; a wide range of molecular weight standards; and sensitive, easy-to-use staining kits. **R&D Systems Europe. Circle 148.**

Physiology Research Instruments catalog includes many devices for the whole animal research lab, including pipette pullers, micro-manipulators, stereotaxic instruments, swivels, infusion and withdrawal syringe pumps, and a data acquisition system. **Stoelting. Circle 149.**

Measurements with Light is a catalog of products and services from two companies that specialize in biospecific assays involving labels. It includes instruments, software, reagents, and reference tables. **Wallac and Berthold, EG&G Companies. Circle 150.**

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Loyola University, New Orleans

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To apply, send your curriculum vitae, a copy of your college transcripts, statements of teaching and research interests and expertise, and three letters of reference to: **Biology Search Committee, Department of Biological Sciences, Loyola University, New Orleans, LA 70118.** We will begin reviewing applications on January 6, 1995, and will continue until the positions are filled. *Biological Sciences seeks a highly qualified, diverse applicant pool and especially encourages members of groups underrepresented in science to apply. Loyola University is an Equal Opportunity/Affirmative Action Employer.*

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The Department of Biology, University of California, Riverside invites applications for a **TENURE-TRACK POSITION** in animal organismal biology. We seek an individual interested in mechanisms of animal function from an ecological/evolutionary perspective. Preferred research areas are (1) behavioral neurobiology with an organismal or systems focus; (2) biomechanics or functional morphology; (3) nutritional physiology. Applicants should have at least one year of postdoctoral training, demonstrated excellence in research, and a commitment to teaching both undergraduate and graduate students. The appointment is effective July 1, 1995, with duties commencing in September. To apply, send curriculum vitae, statement of research and teaching interests, copies of representative publications, and three letters of recommendation by January 20, 1995, to: **Organismal Biology Search Committee, Department of Biology, University of California, Riverside, CA 92521.** *UC Riverside is an Equal Opportunity/Affirmative Action Employer.*

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Dan B. Jones, M.D.
Sid W. Richardson Professor and Chair
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Baylor College of Medicine
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Houston, TX 77030

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The OSC is a research unit within the Faculty of Science which operates a variety of programs addressing questions relevant to the cold ocean environment, including aquaculture of fish and shellfish, vertebrate and invertebrate physiology, biochemistry and behavior, oceanography, and seabird and mammal biology. The OSC is situated 10 km north of the university's main campus in St. John's, and provides excellent facilities for laboratory and field studies.

Interested persons should send a résumé, an outline of proposed research, and the names and addresses of three academic referees to:

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Memorial University of Newfoundland
St. John's, Newfoundland
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Canada

The closing date is 17 February 1995.

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The Department of Otolaryngology of West Virginia University invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** available summer 1995. We are seeking an individual to join a growing group of scientists and establish a vigorous and independent basic research program using molecular and cellular approaches to fundamental questions in the auditory or vestibular systems or chemical senses. Candidates with experience in development, regeneration and/or signal transduction are encouraged to apply. A joint appointment in the appropriate basic science department is available. Please send curriculum vitae, reprints of publications, a statement of future research plans and three letters of recommendation by January 20, 1995, to: **Dr. Stephen J. Wetmore, Chairman, Department of Otolaryngology, West Virginia University School of Medicine, P.O. Box 9200, Health Sciences Center, Morgantown, WV 26506-9200.** *West Virginia University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

AUBURN UNIVERSITY Comparative Animal Physiologist Department of Zoology and Wildlife Science

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level. Starting date is negotiable but September 1995 is preferred. The successful applicant must have a Ph.D. in biological sciences with training in classical and comparative animal physiology, must provide evidence of potential for teaching excellence, and must have demonstrated ability and desire to develop a competitive research program. Postdoctoral experience is preferred. Expectations include participation in teaching advanced undergraduate courses in clinical and mammalian physiology, development of a competitive extramurally funded research program in cellular signal transduction in neural or other systems and development of an active graduate student research program. Applicants should submit by February 1, 1995, a curriculum vitae which includes training, experience, achievements, evidence of teaching performance and a list of publications; transcripts of all college/university credits; copies of two to three representative reprints; a summary of teaching philosophy and research plans; and other pertinent information. Three to five letters of recommendation should be forwarded by professional references. All materials should be addressed to: **John F. Pritchett, Professor and Head, Department of Zoology and Wildlife Science, 331 Funchess Hall, Auburn University, AL 36849. Telephone: 205-844-4850; FAX: 205-844-9234. Auburn University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.**

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Please send curriculum vitae and one-page summary of research interests to: **Dr. Neil Resnick, Chief of Gerontology, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. Harvard University and Brigham and Women's Hospital are Affirmative Action Employers.**

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Qualifications include a Ph.D., D.O., or equivalent and significant postdoctoral experience. The candidate is expected to maintain a strong, independent research program. The area of research is open. Salary is negotiable from \$34,000. Please send curriculum vitae, statement of research plans and teaching interests and three letters of recommendation by January 15, 1995, to: **Jean Witkowski, Department of Biological Sciences, Ohio University, Athens, OH 45701.**

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Candidates should forward a curriculum vitae, list of publications, a statement of research interests and the names of three referees to: **Dr. Dennis Vance, Director, Lipid and Lipoprotein Research Group, University of Alberta, 328 Heritage Medical Research Building, Edmonton, Alberta T6G 2S2 Canada. Closing date: January 31, 1995.**

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

QUEEN'S UNIVERSITY KINGSTON, ONTARIO—CANADA Department of Anatomy and Cell Biology Faculty of Medicine

Applications are invited for two tenure-track appointments at the rank of ASSISTANT or ASSOCIATE PROFESSOR. A Ph.D. and/or M.D. or D.D.S. degree and a minimum of two years of postdoctoral experience are essential. Outstanding candidates with strong interdisciplinary research programs in Cell Biology, Neuroscience, Human Biomechanics or Physical Anthropology will be considered. Ability to teach in two areas: Human Gross Anatomy, Histology, Neuroscience or Embryology, in an integrated curriculum would be an asset.

Candidates should arrange to have a copy of their curriculum vitae and at least three letters of recommendation sent to: **Dr. M. G. Joneja, Professor and Head, Department of Anatomy and Cell Biology, Faculty of Medicine, Queen's University, Kingston, Ontario K7L 3N6 Canada. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Queen's University has an employment equity programme, welcomes diversity in the workplace and encourages applications from all qualified candidates, including women, aboriginal peoples, people with disabilities and visible minorities. Applications and letters of recommendation should be forwarded as soon as possible and no later than January 30, 1995.**

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Biology, University of California, Riverside, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, available July 1, 1995, with duties commencing in September. We are particularly interested in candidates with a Ph.D. in Molecular Biology or related disciplines and at least two years of postdoctoral experience. We seek an individual who will establish an independent research program addressing fundamental questions related to the regulation of DNA replication, gene expression, or protein synthesis, and employing the tools of modern molecular biology such as recombinant DNA and transgenic approaches. The successful candidate will be expected to contribute to graduate student training and participate in undergraduate instruction. Opportunities are also available for membership in the Interdepartmental Genetics Graduate Program. Applicants should forward a curriculum vitae, statement of research and teaching interests, and arrange for three letters of reference to be sent by January 20, 1995, to: **Molecular Biology Search, Department of Biology, University of California, Riverside, CA 92521. Address Email inquiries to: BHYMAN@UCRAC1.UCR.EDU. UC Riverside is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

UNIVERSITY OF COLORADO Biochemistry/Molecular Biology/Pharmacology

The Department of Basic Sciences and Oral Research at the University of Colorado Health Sciences Center School of Dentistry invites applications for a Tenure-Track Position at the level of ASSISTANT or ASSOCIATE PROFESSOR. Applicants should have a Ph.D. or equivalent degree with postdoctoral research experience in the area of molecular biology and biochemistry or molecular pharmacology. Prior teaching experience is desirable. The successful applicant is expected to develop an externally funded research program and contribute to teaching at the graduate and undergraduate level. Research interests in the area of eukaryotic signal transduction and gene expression best fits with current departmental plans. The successful applicant will be a significant member in the development of a program project grant involving faculty from the Dental and Medical Schools. A joint appointment is available to a suitable applicant in the Department of Biochemistry, Biophysics and Genetics, or Department of Pharmacology, School of Medicine, and the applicant is expected to participate in the Molecular Biology Program. Applicants should submit a curriculum vitae, a brief description of research interests, reprints and arrange for three letters of reference to be sent to: **Chair, Faculty Search Committee, Department of Basic Sciences and Oral Research, University of Colorado School of Dentistry, 4200 East 9th Avenue C-286, Denver, CO 80262. All applications must be received by no later than February 15, 1995.**

An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

CELL BIOLOGY ASSISTANT PROFESSOR

The Department of Biological Sciences, SUNY at Buffalo invites applications for a TENURE-TRACK POSITION in cell biology starting September 1995. Qualifications include a Ph.D., at least two to three years of postdoctoral experience and the potential to establish an outstanding research program. Of particular interest are individuals addressing developmental and/or immunological aspects of cell biology. The Department has excellent research facilities and will offer a very competitive salary and start-up package. The selected candidate will join a young and vibrant, research-oriented faculty with strength in cell and molecular biology and will participate in our Departmental Graduate Program, as well as in undergraduate instruction. Membership in a University-wide Molecular Cell Biology Graduate Program is also possible. Applicants should forward a curriculum vitae, statement of future research plans and arrange for three letters of reference to be sent by January 30, 1995, to: **Dr. Ronald Berezney, Chair of the Cell Biology Search, Department of Biological Sciences, State University of New York at Buffalo, Buffalo, NY 14260. SUNY is an Equal Opportunity/Affirmative Action Employer.**

TWO ASSISTANT PROFESSOR POSITIONS IN MICROBIOLOGY Department of Microbiology Louisiana State University

Applicants must have an earned doctorate, postdoctoral research experience and the ability to develop a strong independent research program. Applicants with demonstrated research expertise in any aspect of microbiology will be considered. A strong commitment to teaching undergraduate and graduate students is also required. Send curriculum vitae, a statement of research interests, relevant reprints, and the names of three references to: **Search Committee, Department of Microbiology, Louisiana State University, Baton Rouge, LA 70803. Deadline is January 15, 1995, or until suitable candidates are identified. Louisiana State University is an Equal Opportunity/Affirmative Action Employer.**

BEHAVIORAL NEUROSCIENTIST

Tenure-track ASSISTANT PROFESSOR position for individual broadly trained in modern neurosciences techniques. Research area open. Candidate expected to maintain a strong research program and participate in department's teaching program. Send curriculum vitae, statement of research and teaching interests, reprints and preprints, and three reference letters by February 1, 1995, to: **Behavioral Neuroscience Search Committee, Department of Psychology NI-25, University of Washington, Seattle, WA 98195. An Affirmative Action/Equal Opportunity Employer.**



AMERICAN ASSOCIATION FOR CANCER RESEARCH SCIENTIFIC CONFERENCES

JANUARY 14-19, 1995

***Mechanism of Action of Retinoids,
Vitamin D, and Steroid Hormones***

Chairpersons: Michael B. Sporn, Bethesda, MD;
Ronald M. Evans, San Diego, CA; David
Mangelsdorf, Dallas, TX
Whistler Resort and Conference Centre, Whistler,
B.C., Canada

FEBRUARY 13-18, 1995

***Molecular Biology of Cancer: Implications
for Prevention and Therapy***

Joint Meeting with Japanese Cancer Association
Chairpersons: Lee W. Wattenberg, Minneapolis,
MN; Masaaki Terada, Tokyo, Japan
Maui Marriott Hotel, Maui, HI

MARCH 19-22, 1995

86th Annual Meeting

Chairperson: Donald S. Coffey, Baltimore, MD
Metro Toronto Convention Centre, Toronto,
Ontario, Canada

APRIL 1-6, 1995

***Signal Transduction of Normal
and Tumor Cells***

Chairperson: Anthony J. Pawson, Toronto,
Ontario, Canada; André Veillette, Montreal,
Quebec, Canada; Grant McFadden,
Edmonton, Alberta, Canada
Banff Centre, Banff, Alberta, Canada

OCTOBER 14-18, 1995

Cytokines and Cytokine Receptors

Chairperson: Steven Gillis, Seattle, WA
The Sagamore, Bolton Landing (Lake George),
NY

NOVEMBER 5-9, 1995

***Cancer: The Interface Between
Basic and Applied Research***

Chairpersons: Bert Vogelstein, Baltimore, MD;
Stephen H. Friend, Seattle, WA; John D.
Minna, Dallas, TX
Stouffer Harborplace Hotel, Baltimore, MD

NOVEMBER 17-21, 1995

***Novel Strategies Against
Resistant Cancers***

Chairpersons: Victor Ling, Toronto, Ontario,
Canada; Daniel D. Von Hoff, San Antonio, TX
Sanibel Harbour Resort & Spa, Ft. Myers, FL

DECEMBER 2-6, 1995

***The Molecular Basis of
Gene Transcription***

Chairperson: Tom Curran, Nutley, NJ
Hotel Del Coronado, Coronado (San Diego), CA

FEBRUARY 19-25, 1996

***Cancer Susceptibility Genes and
Molecular Carcinogenesis***

Chairpersons: Curtis C. Harris, Bethesda, MD;
Allan Balmain, Glasgow, Scotland; Kenneth
Olden, Research Triangle Park, NC
Keystone Resort, Keystone, CO

MARCH 1996

***Proteases and Their Inhibitors
in Cancer***

Chairpersons: Lynn M. Matrisian, Nashville, TN;
Bonnie F. Sloane, Detroit, MI
Location to be Announced

APRIL 20-24, 1996

87th Annual Meeting

Chairperson to be Announced
Washington D.C. Convention Center, Washington,
D.C.

JUNE 1996

Inducible Genomic Responses

Chairpersons: William T. Beck, Memphis, TN;
John A. Hickman, Birmingham, England;
Richard I. Morimoto, Evanston, IL
Location to be Announced

AACR members will receive brochures on the
above special conferences as soon as they are
available. Nonmembers should call or write:

American Association for Cancer Research
Public Ledger Building, Suite 816
150 South Independence Mall West
Philadelphia, PA 19106-3483
215-440-9300 • 215-440-9313 (FAX)

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

University of Southern Maine (USM) invites applications for a **TENURE-TRACK POSITION** in biology, to begin September 1995. Candidates are expected to begin a research program which will involve some undergraduate participation. Teaching will include an upper-level course in botany, an additional upper-level course in area of expertise, and participation in introductory-level courses. Preference will be given to candidates with expertise above the cellular level. USM has an enrollment of approximately 10,000; the Department of Biological Sciences has 10 full-time faculty and 250 undergraduate majors. Candidate must have completed all requirements for a Ph.D., including thesis defense, by June 30, 1995, and have expertise in botany or plant ecology. Send letter of application, curriculum vitae, and three letters of reference postmarked no later than January 15, 1995, to: **Faculty Search Committee, Department of Biological Sciences, RE: 101, University of Southern Maine, 96 Falmouth Street, Portland, ME 04103.** *USM is an Equal Employment Opportunity/Affirmative Action Employer committed to diversity, quality and reasonable accommodation.*

ASSISTANT PROFESSOR DEPARTMENT OF MICROBIOLOGY AND CELL SCIENCE UNIVERSITY OF FLORIDA

The Department of Microbiology and Cell Science, University of Florida, invites applications for a **TENURE-TRACK POSITION** available August 1, 1995. This position is equally divided between teaching and research. It includes start-up funds and a salaried technician. The successful candidate is expected to develop an externally funded research program in the area of microbial physiology, microbial ecology, or bioremediation. Teaching responsibilities will include participation in undergraduate and graduate courses, training of graduate students and other University-related activities. Candidates should have a Ph.D. in Microbiology, Biochemistry, or related science and at least two years of postdoctoral experience. The closing date for this position is March 1, 1995. Applicants should submit a curriculum vitae, summary of research interests, and the names of three referees to: **Lonnie O. Ingram, Department of Microbiology and Cell Science, Museum Road, P.O. Box 11700, University of Florida, Gainesville, FL 32611-0700.** *The University of Florida is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.*

The Department of Chemistry and Biochemistry at Duquesne University invites applications and nominations for two tenure-track faculty positions for the fall of 1995. We anticipate filling these positions at the **ASSISTANT PROFESSOR** level but extraordinary candidates at advanced levels will be considered. Successful applicants will be expected to contribute to the undergraduate and graduate programs and to develop vigorous, independent research programs with external funding. Only outstanding candidates should apply. The following areas will be given high priority: biochemistry, physical chemistry and inorganic chemistry. Evaluation of applications will begin on January 15, 1995. Send résumé, transcripts, statement of proposed research and three letters of recommendation to:

**Thomas L. Isenhour, Chair
Department of Chemistry and Biochemistry
Duquesne University
Pittsburgh, PA 15282**
Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR/TENURE-TRACK

Position is immediately available to study the role and effects of HIV-1 and B cell lymphokines. Strong background in molecular biology of HIV-1. Salary: negotiable. Send résumé, names and addresses of three references to:

**David Benjamin M.D.
1232 James Cancer Hospital and Research Institute
The Ohio State University Hospitals
300 West 10th Avenue
Columbus, OH 43210-1228
Telephone: 614-293-3716; FAX: 614-293-3112**

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.

POSITIONS OPEN

FACULTY POSITION EUKARYOTIC CELL PHYSIOLOGY

As part of our expanding program, the Department of Biological Sciences at Duquesne University invites applications for a full-time tenure-track position at the rank of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D., postdoctoral research experience, and a commitment to excellence in research and teaching. The successful applicant will be expected to seek extramural funding and to establish a vigorous research program involving graduate and undergraduate students. The Department of Biological Sciences consists of 13 interactive faculty members, most with extramurally funded research programs. Salary and start-up funds are competitive. Send a letter of application, curriculum vitae, three letters of reference, and a statement of research and teaching goals to: **Dr. Steven P. Thomas, Chair, Cell Physiology and Search Committee, Department of Biological Sciences, Duquesne University, Pittsburgh, PA 15282.** Application materials must be received by January 15, 1995. *Duquesne University is an Affirmative Action/Equal Opportunity Employer. We strongly encourage applications from women and minorities.*

MICROBIAL ECOLOGIST

Department of Microbiology, Immunology and Preventive Medicine, Iowa State University (ISU): **ASSISTANT PROFESSOR**, tenure-track, nine month, full-time. 80% research; 20% teaching. The successful applicant will be expected to collaborate with other scientists in a livestock odor control group as well as establish an independent research program in microbial ecology that focuses on the structure, function and diversity of microbial communities in natural and managed environments as influenced by current and future agricultural practices. Responsibilities also include training of Ph.D. candidates and teaching at the graduate and/or undergraduate levels. A Ph.D. in microbiology, ecology or a closely related field and at least two years of postdoctoral experience are required. Salary and start-up funds are competitive. Submit: letter of application, résumé, statement of research/teaching interests/plans, and four letters of reference to: **K. Platt, MPM, 2154 Veterinary Medicine, ISU, Ames, IA 50011-1250.** Deadline: March 1, 1995, or until position is filled.

ASSOCIATE/FULL RESEARCH BIOCHEMIST, Department of Laboratory Medicine, University of California, San Francisco. Position available requiring M.D./Ph.D. with a minimum of five years of relevant experience in gene expression, ribozyme biochemistry or molecular virology to work on NIH-funded five year project on removal/inactivation of blood-borne viruses. Salary range \$50,000-\$59,000 per year. Only persons legally authorized to work in the United States should apply. Submit curriculum vitae, a brief statement of research interests and the names of references to: **Dr. Girish Vyas, Search Committee, Department of Laboratory Medicine, UCSF, San Francisco, CA 94143-0134.** *The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT AND ASSOCIATE PROFESSORS

The Department of Biochemistry at the University of Kentucky has full-time, tenure-track faculty positions open at the **ASSISTANT** and **ASSOCIATE PROFESSOR** level. The successful candidates will be expected to pursue independently funded research and to participate in departmental teaching activities. Women and minorities are encouraged to apply. Interested persons should submit their curriculum vitae, a summary of research interests, and recommendation letters from at least three references to: **Faculty Search Committee, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084.**

An Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF BIOLOGICAL SCIENCES California State University, Long Beach

Four tenure-track positions beginning fall 1995 at **ASSISTANT/ASSOCIATE PROFESSOR**: Marine Microbiology, Wetlands Plant Ecology, Population Genetics, and Comparative Animal Physiology. **Deadline for applications extended to January 2, 1995.** See *Science* 4 November 1994 issue for details or call **310-985-4806** to have an expanded description sent. *CSU Long Beach is an Equal Opportunity/Affirmative Action/Title IX Employer.*

POSITIONS OPEN

MICROBIAL PHYSIOLOGIST ANAEROBIC MICROBIOLOGIST

Iowa State University (ISU), Department of Microbiology, Immunology and Preventive Medicine; tenure-track position, **ASSISTANT** or **ASSOCIATE PROFESSOR**; emphasis on anaerobic microbiology. Candidates are sought with training and research experience in the use of biochemical and molecular techniques to study anaerobic microorganisms. Areas of interest include, but are not limited to, microbial diversity, water microbiology, and rumen microbiology. The successful applicant will be expected to establish an independent research program and collaborate with other scientists in a livestock odor control group. Responsibilities also include training of Ph.D. candidates and teaching at the graduate and/or undergraduate levels. A Ph.D. in microbiology or related field and at least two years of postdoctoral experience are required. Salary and start-up funds are competitive. Send current curriculum vitae, a letter of research interest, and three letters of reference to: **A. DiSpirito, MPM, ISU, 207 Science I, Ames, IA 50011-3211.** Deadline: March 1, 1995, or until position is filled.

YOUNGSTOWN STATE UNIVERSITY

Faculty positions—Biological Sciences. Two tenure-track positions at the level of **ASSISTANT PROFESSOR** available September 15, 1995. A Cell Biologist, pending approval, whose responsibilities include teaching molecular/cellular sections of General Biology and upper-division courses in Cell Biology and a graduate-level specialty course. A Physiologist whose responsibilities include teaching Gross Anatomy and upper-division courses in Physiology and a graduate-level specialty course. Each individual will be expected to train Master's students and develop a research program with potential for extramural funding. Ph.D. required, postdoctoral and computer experience preferred. Submit curriculum vitae, three letters of recommendation, teaching experience and up to two publications by January 15, 1995, to: **Dr. Anthony E. Sobota, Chair, Department of Biological Sciences, Youngstown State University, Youngstown, OH 44555.**

Youngstown State University is an Equal Opportunity/Affirmative Action Employer.

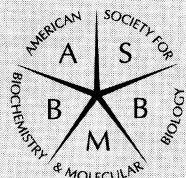
NEUROSCIENTIST OBERLIN COLLEGE

The Neuroscience and Biopsychology Program at Oberlin College, an undergraduate institution, invites applications at the **ASSISTANT PROFESSOR** level for a two-year, full-time position, contingent upon favorable evaluation during the first year, beginning July 1995. Teaching responsibilities will be in the Introductory Neuroscience lecture and laboratory course and upper level courses in the area of the applicant's specialty. The position is open to applicants with training in any area of neuroscience. Applicants with research backgrounds in Sensory or Motor Physiology, Invertebrate Neurobiology, Learning and Memory, Neurogenetics, and Neuroimmunology are particularly encouraged to apply. Opportunities for research are available. Previous teaching experience is desirable. Ph.D. in hand or by January 1, 1996, is required. Send application, including a statement of teaching interests, and three letters of recommendation to: **Dr. C. McCormick, Department of Biology, Oberlin College, Oberlin, OH 44074.** Review of applications will begin February 1, 1995. *An Affirmative Action/Equal Opportunity Employer.*

EDINBORO UNIVERSITY OF PENNSYLVANIA DEPARTMENT OF BIOLOGY AND HEALTH SERVICES

Two tenure-track positions—**ASSISTANT PROFESSORS**—beginning fall 1995. Deadline January 11, 1995. Master's plus ten graduate credits; Ph.D. preferred and four years of teaching experience or equivalent. Salary \$35,661 to \$47,789. Submit letter of application to: **Dr. Jerry Covert, Dean of SM&T, Edinboro University of PA 16444,** specifying position number, detailed résumé, transcripts, names/addresses/telephone numbers of three current references. Position No. 020-0553—Human anatomy and physiology for Nursing and Allied Health majors; Research program development. Position No. 020-0554—Introductory biology and either cell/molecular biology or non-vascular plants.

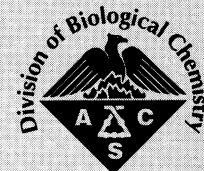
Affirmative Action/Equal Opportunity Employer/Minorities/Female/Veterans/Disabled.



Annual Meeting ASBMB/DBC-ACS

San Francisco, May 21-25, 1995

Organized by: Rowena Matthews, Alfred G. Gilman & Debra Dunaway-Mariano



Sunday, May 21

Opening Lecture

Richard Henderson

Monday, May 22

Plenary Lectures

Joseph L. Goldstein Michael S. Brown
Peter G. Schultz

Symposia

EVOLUTION OF ENZYMATIC ACTIVITIES

Chair, John A. Gerlt

Barry G. Hall Debra Dunaway-Mariano
L. Nicholas Ornston

THE PROTEIN FOLDING PROBLEM

Chair, Lila M. Gierasch

Sheena Radford George Rose
Robert Sauer

GENETIC INSTABILITY AND CANCER

Chair, Paul Modrich

Lawrence A. Loeb Thea Tisty
Bert Vogelstein

RAS

Chair, Melanie Cobb

Ira Herskowitz Jonathan Cooper
Paul Sternberg

Tuesday, May 23

Plenary Lectures

Sydney Kustu Richard Axel

Symposia

DETECTION OF NOVEL ENZYME INTERMEDIATES

Chair, Karen S. Anderson

JoAnne Stubbe Richard B. Janssen
Joseph Villafranca

TRANSCRIPTION ACTIVATION

Chair, Richard L. Gourse

Arnold Berk Mimi Susskind
Richard Ebright

INTRACELLULAR CALCIUM

Chair, Frederic Fay

Tobias Meyer Tulio Pozzan
Roger Tsien

EMERGING TECHNIQUES IN ATOMIC FORCE MICROSCOPY

Chair, Stephen Sligar

David Braunstein Carlos Bustamante
Deborah Leckband Hirohuki Sasabe

Wednesday, May 24

Plenary Lectures

R. John Collier Richard D. Klausner

Symposia

NUCLEIC ACID ENZYMES

Chair, Stephen J. Benkovic

Michael O'Donnell Gregory Verdine
Samuel Wilson

CHROMATIN

Chair, Alan P. Wolffe

Daniel E. Gottschling Rudolf Grosschedl
Carl Wu

PROTEIN DESIGN

Chair, William F. DeGrado

P. Leslie Dutton Jeffrey W. Kelly
James A. Wells

BIOCHEMISTRY OF CELLULAR ADHESION

Chair, Timothy Springer

A. Neil Barclay Steven D. Rosen
Mark Ginsberg

Thursday, May 25

Plenary Lectures

Judith Klinman James E. Rothman

Symposia

MOLECULAR RECOGNITION

Chair, Frank M. Raushel

Richard N. Armstrong Hazel M. Holden
S. James Remington

NITRIC OXIDE SYNTHASE: STRUCTURE, MECHANISM AND REGULATION

Chair, Michael Marletta

Bettie Sue Masters Thomas Michel
Qiao-wen Xie

THE MOLECULAR BASIS OF MOTILITY

Chair, Ivan Rayment

Lawrence Goldstein James A. Spudich

PROTEIN TRAFFICKING

Chair, James E. Rothman

Susan Ferro-Novick Per A. Peterson
Richard H. Scheller

Special Sessions

ABRF/ASBMB SYMPOSIUM

"Current Techniques in DNA Research"
Ronald L. Niece and Clayton Naeve

"Should One Year of Organic Chemistry be
Required for Medical School?"
Thomas H. Haines

"Normalizing Science for Gender Differences?"
Cosponsored by: The ASBMB Equal Opportunities for
Women Subcommittee and the ASBMB Equal
Opportunities for Minorities Subcommittee

"How to Get Potential Employers to Look
Twice at Your Curriculum Vitae"
Steven L. McKnight

PUBLIC AFFAIRS SYMPOSIUM

"View from the Trenches: How Do Post-Docs and
Graduate Students View the Current
Scientific Climate?"
Howard K. Schachman

Poster Discussion Sessions

"Properties of Short Repetitive Nucleic Acid
Sequences and Their Possible Relevance to
Genetic Diseases"

Cochairs, Michael Mitas Jacques Fresco

"Molecular Regulation of Cyclic Nucleotide
Hydrolysis"

Cochairs, Vincent C. Manganiello Joseph Beavo

Satellite Meetings

"PROTEIN FOLDING: GOALS FOR THE MILLENNIUM" MAY 20-21, 1995

Organizers:
Lila M. Gierasch
George D. Rose

The Protein Folding Code
Chair, Janet Thornton

Keynote Speaker:
Frederic Richards

Molecular Chaperone-
Facilitated Protein Folding
Chair, Helen Saibil

The Protein Folding
Reaction
Chair, Robert Matthews

Protein Folding *In Vivo*
Chair, Jonathan King

"COMPUTERS AND STRUCTURE- BASED DRUG DESIGN"

MAY 25-26, 1995

Session Organizers:
Irwin Kuntz George Kenyon
Fred S. Cohen

Information and Abstract forms are available from:

ASBMB Meeting Office
9650 Rockville Pike, Bethesda, MD 20814-3998
Tel. 301-530-7010 Fax 301-530-7014

Award Lectures

ASBMB-AMGEN AWARD - Monday
David Charles Schwartz

ASBMB-MERCK AWARD - Thursday
I. Robert Lehman

THE WILLIAM C. ROSE AWARD - Wednesday
Celia White Tabor and Herbert Tabor

FRITZ LIPMANN LECTURESHIP - Thursday
James E. Rothman

SCHERING-PLOUGH YOUNG
INVESTIGATOR AWARD - Tuesday
Richard Ebright

ELI LILLY AWARD - Tuesday
Jeremy M. Berg

PFIZER AWARD - Wednesday
Gerald F. Joyce

REPLIGEN AWARD - Monday
W. Wallace Cleland

POSITIONS OPEN

X-RAY CRYSTALLOGRAPHER, ASSISTANT or ASSOCIATE PROFESSOR, tenure-track (search reopened). The new Center for Pharmaceutical Biotechnology invites applications in macromolecular X-ray crystallography. Ph.D. and postdoctoral experience required. Responsibilities include developing a strong, externally funded research program, and teaching in graduate and professional programs. Successful candidate will have appointments within the Center and a College basic science department, and extensive collaborative opportunities in a major health sciences center. Forward curriculum vitae, description of research interests, and three reference letters to: **Dr. M. E. Johnson, Interim Director, Center for Pharmaceutical Biotechnology, College of Pharmacy, University of Illinois at Chicago, 833 South Wood Street, m/c 874, Chicago, IL 60612-7230**. Screening of applications will begin on 1 January 1995 and continue until position is filled. *Affirmative Action/Equal Opportunity Employer.*

VASCULAR BIOLOGIST

A tenure-track position and support are available at the University of Texas Medical School at Houston for appointment of a senior investigator at either the level of **ASSOCIATE PROFESSOR or PROFESSOR**. The applicant should have achieved national recognition in the areas of cellular and molecular biology of the vascular system. The combined M.D./Ph.D. degree or either the M.D. or Ph.D. degree is required. Some background and training within the discipline of Pathology are desirable. The deadline for receipt of applications is February 27, 1995, or until the position is filled. Send curriculum vitae and list of references to: **Dr. L. Maximilian Buja, Professor and Chairman, Department of Pathology and Laboratory Medicine, The University of Texas Medical School at Houston, 6431 Fannin, MSB 2.136, Houston, TX 77030**. *The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

The Chemistry Department at Michigan State University seeks to fill a tenure-track position in Physical Chemistry preferably at the **ASSISTANT PROFESSOR** level. Outstanding candidates in all areas of protein crystallography are encouraged to apply. Candidates are expected to establish a vigorous research program and to pursue excellence in research and teaching at both the graduate and undergraduate level. Applicants should send a current curriculum vitae, a list of publications, and a description of future research plans to: **Gerald T. Babcock, Chair, Department of Chemistry, Michigan State University, East Lansing, MI 48824**. Applicants should also arrange to have three letters of recommendation submitted on their behalf. Review of applications will begin 1 January 1995, and will continue until the position is filled. *Michigan State University is an Affirmative Action/Equal Opportunity Institution. Applications from women and underrepresented minorities are particularly welcome.*

Biologist/Ecologist. **ASSISTANT PROFESSOR**, The University of Texas of the Permian Basin (UTPB). Applicant should be able to teach ecology, evolution, behavior, invertebrate or vertebrate zoology, appropriate portions of general biology, and a graduate course in area of expertise. Though good teaching is desired, research will be expected and encouraged. UTPB enrolls 2,400 students and provides an atmosphere which encourages interaction between faculty and students. Submit résumé and the names, addresses and telephone numbers of three referees to: **Don M. Allen, Professor of Life Science, UTPB, Odessa, TX 79762**. Telephone: 915-552-2268; FAX: 915-552-2374; Email: allen_d@gusher.pb.utexas.edu. Screening of applicants will commence February 1, 1995. *Equal Opportunity/Affirmative Action Employer.*

VISITING ASSISTANT PROFESSORS Department of Biology Indiana University

We seek applications for two non-tenure-track visiting **FACULTY POSITIONS** of two years duration, beginning August 1995. One individual will teach evolution and organismal biology, and the other molecular and microbiology. Send curriculum vitae and description of prior teaching experience, and have three letters of recommendation sent either to the **Organismal Search Committee** or the **Micro-Molecular Search Committee, Biology Department, Indiana University, Bloomington, IN 47405**. Deadline: February 15, 1995. *An Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CELL BIOLOGIST UNIVERSITY OF DAYTON

A full-time, tenure-track **ASSISTANT PROFESSORSHIP** is available in the Department of Biology at the University of Dayton beginning August of 1995. Individuals in any area of specialization within the field of cell biology are encouraged to apply. The successful applicant will be expected to develop an active research program and to mentor M.S. and Ph.D. students. Teaching responsibilities will include cell biology, a graduate level bioinstrumentation course, and an additional course at the graduate or undergraduate level. Candidate must demonstrate a potential for significant scholarly research and be strongly committed to excellence in teaching. A Ph.D. in the area of cell biology and postdoctoral experience are required. Interested applicants should send their curriculum vitae, recent reprints, statement of both research and teaching interests, and three letters of reference to: **Dr. Carl F. Friese, Chair of Cell Biology Search, Department of Biology, University of Dayton, Dayton, OH 45469-2320**. Closing date is January 11, 1995. *The University of Dayton is an Affirmative Action/Equal Opportunity Employer.*

ANIMAL BEHAVIORIST

Tenure-track **ASSISTANT PROFESSOR** position. Research interests in evolutionary perspectives on learning; behavioral ecology; or integrative approaches to animal behavior (e.g., molecular or physiological). Candidate expected to maintain a strong research program and participate in department's teaching program. Send curriculum vitae, statement of research and teaching interests, reprints and preprints, and three reference letters, by February 1, 1995, to: **Animal Behavior Search Committee, Department of Psychology NI-25, University of Washington, Seattle, WA 98195**. *An Affirmative Action/Equal Opportunity Employer.*

The Department of Surgery at the University of Washington School of Medicine is seeking an individual with doctoral (Ph.D./M.D.) and postdoctoral training in molecular biology to conduct a research program in the area of vascular smooth muscle cell growth control. The applicant must have experience with research on secondary signaling pathways and kinase/phosphatase biochemistry. This position is at the rank of **RESEARCH ASSISTANT PROFESSOR** in the Department of Surgery. Applicants should forward a letter of application and a complete curriculum vitae to: **Dr. Alexander W. Clowes, Department of Surgery, RF-25, University of Washington School of Medicine, 1959 NE Pacific, Seattle, WA 98195**. *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

CHAIR Department of Genetics and Developmental Biology University of Connecticut Health Center School of Medicine

Applications are requested for the **CHAIR** of a newly created basic science department. The ideal candidate will be actively engaged in a research program in genetics or developmental genetics, and have the academic background required to ensure vigorous growth of a well-supported department. It is intended that the department should have a significant focus in mammalian genetics. Application should include complete curriculum vitae and should be submitted by March 1, 1995, to: **Ms. Deborah Woodbury, Department of Physiology, University of Connecticut Health Center, Farmington, CT 06030**. *An Affirmative Action/Equal Opportunity Employer/Minorities/Female/Disabled/Veterans.*

Indiana—Oral Biology—Full-time, tenure-track position available as **DIRECTOR** of the Graduate Program in Oral Biology. Responsibilities include development of a Ph.D. Program in Oral Biology, teaching graduate-level didactic courses and directing a strong basic research program. Candidate must possess a Ph.D. degree in a basic science and/or D.D.S./D.M.D. and have demonstrated ability to obtain extramural research funding. Academic rank and salary commensurate with qualifications and experience. Send curriculum vitae and letters of recommendation to: **Dr. Marilyn S. Lantz, Chair, Department of Oral Biology, Indiana University School of Dentistry, 1121 West Michigan Street, Indianapolis, IN 46202-5186**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DEAN University of Wisconsin-Milwaukee College of Letters and Science

Position Description: The College of Letters and Science of the University of Wisconsin-Milwaukee (UWM) seeks a **DEAN** with academic vision and a proven record of leadership and accomplishments in research and teaching. UWM is a Research II university and one of two doctoral institutions in the University of Wisconsin System. Responsibilities: Provides leadership for the College and exercises responsibility for its academic and administrative operations, including its personnel, budget, programs, and physical facilities. Areas of responsibility include programmatic development and leadership at both undergraduate and graduate levels, leadership for established and developing scholarly and educational programs, development of extramural funding for College programs, and effective representation of the College within the University and externally.

Qualifications: Position requires an earned doctoral degree and a distinguished academic record commensurate with appointment at the full professor level in a College department, as well as significant administrative experience. Starting Date: August 1, 1995. Salary Range: Competitive, and commensurate with qualifications. Application Procedure: Applications must include a letter of interest, curriculum vitae, and names, addresses, and telephone numbers of five references. Completed applications must be postmarked by January 15, 1995. Submit nominations/applications to: **Lynne Goldstein, Chair, Search and Screen Committee for the Dean of the College of Letters and Science, c/o Department of Anthropology, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201**. Telephone: 414-229-4175 or 229-5848; FAX: 414-229-3860. The names of the nominees and applicants who have not requested in writing that their identities be withheld, as well as the names of all finalists for the position, will be released upon request. *UWM is an Affirmative Action/Equal Opportunity Employer.*

EMORY UNIVERSITY Dean of the Graduate School of Arts and Sciences

Emory University invites applications and nominations for the position of **DEAN** of the Graduate School of Arts and Sciences. Emory University currently enrolls approximately 10,000 students in nine schools, taught by 1,700 full-time instructional faculty, of whom 700 are graduate faculty. The Graduate School of Arts and Sciences enrolls 1,300 students and awards Master's and doctoral degrees in 23 departments and divisions. The Dean is responsible for providing academic leadership in all aspects of the graduate program and representing graduate studies within the administration of the University.

Candidates must have a record of teaching and scholarship commensurate with appointment to the rank of professor. Evidence of administrative interest and aptitude is required, as is commitment to rigorous graduate education.

Applicants should submit a letter detailing their interest and pertinent experience, together with a current curriculum vitae. Applications and letters of nominations should be sent to: **Professor Thomas S. Burns, Chair, Graduate Dean Search Committee, Department of History, Bowden Hall, Emory University, Atlanta, GA 30322**. The search committee will begin reviewing dossiers December 15, 1994.

Emory is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND CHAIRMAN THE LAUTENBERG CENTER FOR GENERAL AND TUMOR IMMUNOLOGY

The Hebrew University Hadassah Medical School Jerusalem

Nominations and applications for **CHAIRMAN** of the Lautenberg Center as successor to **Dr. David W. Weiss** are invited by February 15, 1995. The successful candidate will have a record of major accomplishment in science and evidence of ability to nurture, coordinate, and lead a research center dedicated to immunology, molecular biology and tumor biology. Candidates should send a curriculum vitae, bibliography, and a brief exposition of general directions in research that offer promise. Address applications to: **Lautenberg Center Scientific Advisory Committee, Box 1129, Mount Sinai Medical Center, NY, NY 10029**.

National Institutes of Health Laboratory of Clinical Physiology Postdoctoral Fellowship Positions

The Diabetes Unit of Laboratory of Clinical Physiology of the Gerontology Research Center, NIA in Baltimore, MD, is seeking two postdoctoral fellows (Ph.D. or M.D.) interested in the field of diabetes. The applicants will be involved in ongoing research projects to study the molecular mechanisms of insulin action at the level of the target tissues. Documented knowledge of the latest techniques of molecular biology, cell biology or protein biochemistry is a plus. Starting salary will be commensurate with qualification and experience. For further information, please contact Michael Bernier, Ph.D. and/or Chahrzad Montrose-Rafizadeh, Ph.D. at (410) 558-8198. Interested candidates should submit curriculum vitae, bibliography, reprints, summary of research interests and names of three references to:

**National Institute on Aging
Gerontology Research Center
4940 Eastern Avenue
LCP/Diabetes Unit
ATTN: Dr. Bernier (03)
Baltimore, MD 21224**



Please respond by February 21, 1995.

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ASSOCIATE BIOLOGIST

For more than 117 years, Eli Lilly and Company has been a leader in the research, development, manufacturing, and marketing of innovative pharmaceutical products. We have a history of a strong commitment to excellence and to our employees.

We have an immediate career opportunity in the Animal Science Discovery Research division. A BS or MS degree with experience in molecular biology and vertebrate embryology is required. Experience in relevant techniques such as immunohistochemistry, immunoassay and microinjection would be desirable.

The successful candidate will assist in an innovative research program

in the area of vertebrate growth and development, and be part of an interdisciplinary team studying the regulation of myogenesis, sex determination and the neuroendocrine control of growth. Excellent communication and organizational skills are required.

Eli Lilly and Company offers a competitive compensation package and a highly professional environment. For prompt consideration, please forward your resume to: Eli Lilly and Company, Scientific Recruitment, Dept. VE1194, Lilly Corporate Center, Indianapolis, IN 46285.

Eli Lilly and Company is an equal opportunity employer committed to diversity in the workplace.

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Clinical Research Scientist I/II

As a Clinical Research Scientist, you will perform scientific functions relating to the clinical development of investigational and marketed CNS drugs, possibly including antidepressant, antipsychotic, anti-convulsant, and anti-migraine agents among others. The level of responsibility assigned will depend upon the individual applicant's educational background and experience.

Clinical Research Scientist I

Candidates must have a four-year college curriculum with a major concentration in a biological, physical, health, or other related science PLUS 6 years of clinical/research experience (e.g., employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator) OR a Master's degree in a biological, physical, health, or other related science (or Doctor of Pharmacy degree) PLUS 4 years of clinical/research experience (as described above) OR a Ph.D. in a biological, physical, health or other related science PLUS 1 year of clinical/research experience (as described above). Other factors to be considered include experience with clinical research methodology/activities (e.g., study design, site monitoring) as well as experience utilizing available computer systems and software to complete assigned tasks.

Clinical Research Scientist II

Candidates must have a four-year college curriculum with a major concentration in a biological, physical, health, or other related science PLUS 8 years of clinical/research experience (e.g., employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator) OR a Master's degree in a biological, physical, health, or other related science (or Doctor of Pharmacy degree) PLUS 6 years of clinical/research experience (as described above) OR a Ph.D. in a biological, physical, health or other related science PLUS 3 years of clinical/research experience (as described above). Other factors to be considered include experience with clinical research methodology/activities (e.g., study design, site monitoring) as well as experience utilizing available computer systems and software to complete assigned tasks.

Burroughs Wellcome Co. offers a stimulating and challenging work environment, with one of the best compensation and benefits packages in the industry, including comprehensive health and dental plans, life and disability coverage, tuition reimbursement, relocation benefits, pension and investment savings plan, fitness facilities, and others. You will also enjoy the outstanding variety of cultural, educational and recreational advantages that come with living and working in the Research Triangle Park area, one of the most desirable and fastest-growing regions of the country. Please send your resume, indicating REQ #65937 in your cover letter, by **Wednesday, December 28, 1994, to: Burroughs Wellcome Co., Human Resources Department, 3030 Cornwallis Road, Research Triangle Park, NC 27709.**

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 315-8347 in Research Triangle Park; or (919) 707-2997 in Greenville.



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POSITIONS OPEN

LINTON BISHOP PROFESSORSHIP IN HUMAN GENETICS Department of Genetics and Molecular Medicine Emory University Medical School

Through the generosity of Dr. Linton Bishop's family, the Department of Genetics and Molecular Medicine is searching for an internationally recognized **GENETICIST** who will hold the appointment as the Linton Bishop Professor of Human Genetics. Individuals specializing in gene therapy, the molecular basis of disease, or population and quantitative genetics are of special interest.

The Department of Genetics and Molecular Medicine occupies newly remodeled and equipped space which includes research laboratories, a diagnostic laboratory, a molecular histology laboratory, a developmental genetics laboratory, and a departmental genetics clinic. Within the context of the University's Clinical Research Facility, the department also has access to an ultramodern gene therapy suite which includes two operating rooms which communicate with a biohazard containment laboratory as well as three patient isolation rooms.

Emory's suburban campus encompasses the Medical School, the undergraduate college, and three of five affiliated hospitals which draw patients from throughout the region.

Interested individuals should send their curriculum vitae and the names of three references to:

Douglas C. Wallace, Ph.D.
Robert W. Woodruff Professor of Molecular Genetics
Chairman, Department of Genetics and Molecular Medicine
1462 Clifton Road, Room 446
Emory University School of Medicine
Atlanta, GA 30322

Emory University is an Equal Opportunity/Affirmative Action Employer.

The School of Medicine of the State University of New York at Stony Brook announces a search for a **CHAIRPERSON** of its Department of Psychiatry and Behavioral Science.

The Medical Center at Stony Brook is the only comprehensive university medical center on Long Island. It is an integral part of the Health Sciences Center on the campus of The State University of New York at Stony Brook located approximately 50 miles from New York City. SUNY Stony Brook is a comprehensive research university with over 17,000 students and more than 100 degree-granting programs.

The Department has educational responsibilities in each of the four years of the undergraduate curriculum. There are fully accredited residency programs in adult and child psychiatry and a variety of continuing education offerings. The department enjoys a strong and growing network of academic and clinical affiliates, including 283 beds at VAMC Northport.

The successful candidate will be selected on the basis of his or her academic and research accomplishments, educational goals, clinical skills, and administrative and managerial abilities. The individual must hold the M.D. degree, be qualified for a senior faculty appointment, have specialty board certification in Psychiatry, and be eligible to practice in New York State.

The State University of New York is an Equal Opportunity Employer and qualified minority candidates are particularly solicited. Applications will be accepted until February 15, 1995. Interested persons are asked to submit a curriculum vitae and two to three page personal statement to the Chairman of the Search Committee:

Richard N. Fine, M.D.
Professor and Chairman of Pediatrics
c/o Office of the Dean, School of Medicine
University at Stony Brook
Stony Brook, NY 11794-8430

Biology. Northwestern College (Iowa) seeks candidates for a **TENURE-TRACK POSITION**, beginning August 1995. Teaching assignments include human anatomy and physiology, genetics, embryology, and histology. Research is expected and supported. Requirements include a Ph.D., teaching experience, and a strong commitment to evangelical Christian faith. Northwestern College is a Christian liberal arts college affiliated with the Reformed Church in America; the college has a record enrollment of 1,100 students and 62 faculty. Reply to: **Dr. Robert Zwier, VPAA, Northwestern College, Orange City, IA 51041.** Minorities and women are encouraged to apply.

POSITIONS OPEN

DIRECTOR, CENTER FOR ENVIRONMENTAL RESOURCE MANAGEMENT THE UNIVERSITY OF TEXAS AT EL PASO

The University of Texas at El Paso (UTEP) invites applications and nominations for the position of **DIRECTOR** of its Center for Environmental Resource Management (CERM). CERM provides university-wide leadership and coordination for research, policy, teaching and service activities that focus on environmental issues. CERM's mission is to address the mounting environmental problems that threaten the health, safety, well-being and economic development of the Southwest border region of the United States. It currently administers approximately \$6 million in federal and state project funds. A major focus of the director is the integration of academic programs into the center's activities, including enhancement of graduate degree programs involving faculty from several departments. The successful candidate should show evidence of outstanding leadership capability; have successful experience with public sector agencies or institutions; qualify for a university faculty appointment in an appropriate department; and have demonstrated ability to secure and direct externally funded programs. Situated in the largest metropolitan region on the U.S./Mexico border, UTEP provides doctoral, Master's, and undergraduate programs to over 17,000 students. Please send a letter summarizing your interest and capabilities, a detailed résumé and list of references to: **Dr. J.P. Sanford, Associate Vice President for Research and Graduate Studies, The University of Texas at El Paso, Administration Building Room 209, El Paso, TX 79968-0587.** Applications will be accepted until the position is filled. *UTEP does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.*

PROFESSOR/CHAIR DEPARTMENT OF ANATOMY AND CELL BIOLOGY

The State University of New York at Buffalo School of Medicine and Biomedical Sciences invites applications and nominations for a tenured professorial position as **CHAIR** of the Department of Anatomy and Cell Biology. The Department, with 17 faculty members, has active teaching programs in several fields such as gross anatomy, histology, and neuroscience and offers graduate training in the anatomical sciences and cell biology. This position represents a unique opportunity to build upon a strong department by promoting continued growth and further development of its teaching and research programs. The successful candidate should have a distinguished record of academic accomplishment and the ability to establish a strong independent, extramurally supported research program and to foster faculty development. The candidate must have a Ph.D., M.D. or equivalent doctoral degree, experience in teaching and research in anatomy or cell biology, and skills as a leader and manager. Individuals with an active research program, extramural grant support, a background in cell biology, and some previous administrative experience are preferred. Women and minority applicants are particularly encouraged to apply. Interested candidates should submit a letter of application, curriculum vitae, and a one page research statement. All correspondence should be sent to: **Reid R. Heffner, Jr., M.D., Chair, Anatomy Search Committee, Department of Pathology, 204 Farber Hall, SUNY at Buffalo School of Medicine, Biomedical Sciences, 3435 Main Street, Buffalo, NY 14214-3000.** The deadline for receipt of applications is February 1, 1995. *The State University of New York is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION—Biology, The University of South Carolina-Spartanburg (USCS) invites applications for a position in Biology to begin fall 1995. Ph.D. required. Rank and salary competitive. Preference given to candidates in General Biology, Invertebrate Zoology, and Cell Biology. USCS is a metropolitan university of 3,500 students committed to excellence in undergraduate teaching. Send letter of application, curriculum vitae, official undergraduate and graduate transcripts, and three letters of recommendation to: **Biology Search Committee, Office of the Dean, School of Humanities and Sciences, USCS, 800 University Way, Spartanburg, SC 29303.** Review of applications begins February 15, 1995; late applications considered until position filled. *USCS is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women especially encouraged.*

POSITIONS OPEN

DIRECTOR PLANT GENE EXPRESSION CENTER USDA AND UNIVERSITY OF CALIFORNIA, BERKELEY

The Agricultural Research Service in collaboration with the University of California, Berkeley invites applications for the **DIRECTORSHIP** of the USDA-ARS, Plant Gene Expression Center, Albany, CA. The ideal candidate for Director will have a distinguished professional record with substantial experience in research. Evidence of creativity and demonstrated leadership and management skills are required. The applicant should be capable of stimulating collaboration and interactions across a wide spectrum of plant biology research areas. The applicant's research program should address an agriculturally important problem, using biochemical, molecular or genetic approaches, and should complement existing programs. The applicant will also be considered for appointment as an adjunct professor by the Department of Plant Biology at UC-Berkeley. A Ph.D. is highly desirable. The Directorship will be filled at the GS-14 or GS-15 level, Salary (\$61,157-\$93,516) Per Annum. For vacancy announcement and application forms contact: **Sharon Wilson at (301-344-3959), or write to USDA, ARS, Personnel Division, 6305 Ivy Lane, Room 318, Greenbelt, MD 20770-1435.** For information about the position, contact **Dr. Barbara Baker at (510-559-5900).** Must be a U.S. citizen. Application must be postmarked on or before January 18, 1995. *ARS is an Equal Opportunity Employer. Women and minorities are urged to apply.*

ENDOWED EMINENT SCHOLAR Faculty Position in Atmospheric Sciences Georgia Tech in Atlanta

The Georgia Institute of Technology invites applications and nominations for an endowed, **TENURE-TRACK FACULTY POSITION** in Atmospheric Sciences. The position is accompanied by a \$1.5 million endowment, funded in part by the Georgia Research Alliance, and appointment as **FULL PROFESSOR** in the School of Earth and Atmospheric Sciences at Georgia Tech. In addition to his or her academic duties, the Scholar will play a leadership role in linking environmental research to regional policy-making and economic development.

The successful candidate will have a record of scientific excellence, creativity, and leadership commensurate with an academic appointment at the highest level. Internationally recognized scientists specializing in any area of the atmospheric sciences are invited to apply, especially those individuals with demonstrated ability to interact between the environmental policy-making community and the scientific community.

Applications and inquiries should be forwarded to: **Dr. William L. Chameides, Chair, Eminent Scholar Search Committee, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA 30332-0340. Email: wcham@eas.gatech.edu. Telephone: 404-894-1749; FAX: 404-894-1106.** The Search Committee will begin screening and interviewing candidates on January 15, 1995, and continue until the Scholar is identified. *The Georgia Institute of Technology is an Equal Opportunity/Affirmative Action Employer and a Unit of the University System of Georgia.*

The University of Vermont College of Medicine is seeking both applications and nominations for outstanding candidates for the position of **PROFESSOR** and **CHAIR** of the Department of Molecular Physiology and Biophysics. Current strengths of the Department exist in studies of the structure-function relationships in motility and membrane control of smooth, cardiac, and skeletal muscle at the tissue, cellular and molecular level. Ph.D., M.D. or equivalent degree is required. Candidates should have a demonstrated record of: leadership, excellence in teaching, and productivity in research, as demonstrated by publications and funding support.

Applications will be accepted until the position is filled. Review of the candidates will begin by 15 January 1995. Curriculum vitae and a letter of interest should be sent to:

Robert W. Hamill, M.D.
Chair, Department of Physiology Search Committee
Chair, Department of Neurology
University of Vermont College of Medicine
E-109 Given Building
Burlington, VT 05405

The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic and cultural backgrounds are encouraged to apply.

BROOKHAVEN NATIONAL LABORATORY

CHAIR, NATIONAL SYNCHROTRON LIGHT SOURCE DEPARTMENT

Brookhaven National Laboratory (BNL) is a multidisciplinary laboratory that carries out basic and applied research. It is managed by Associated Universities, Inc. under contract with the U.S. Department of Energy. BNL is presently seeking a distinguished scientist to serve as Chair of the National Synchrotron Light Source (NSLS) Department.

As one of the largest synchrotron light sources in the world, the NSLS draws an international community of more than 2500 scientists from 400 institutions to perform experiments. They carry out a wide range of innovative research in physics, chemistry, biology, materials science and various technologies.

Among the responsibilities of the NSLS Chairperson are to continue to build participation and commitment from the outside research community, to continue to strengthen both the scientific and synchrotron source development programs and to integrate these programs with the other departments at BNL and other synchrotron sources in the U.S. One of the challenging on-going commitments for the NSLS is the development of the next so-called 4th generation light source.

Candidates should have a doctorate in physics, materials science, biology or chemistry with extensive experience coupled with strong proven managerial capabilities and be a recognized authority in his or her field. BNL is looking for an able leader with strengths in dealing with university and industrial leaders.

Brookhaven is situated on 5,000 acres in the heart of a region where numerous electronic and other technological companies have made their base. Applications and nominations should be sent by January 30, 1995 to: Dr. Mark Sakitt, Assistant Director for Planning & Policy, Brookhaven National Laboratory, Associated Universities, Inc., Building 460, P.O. Box 5000, Upton, Long Island, NY 11973-5000. We are an equal opportunity employer m/f/d/v.



BROOKHAVEN NATIONAL LABORATORY
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For immediate consideration, please send your resume with salary requirements to: Dept. SLS, Campbell Soup Company, Box 35D, Camden, NJ 08103-1799. EOE.

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SmithKline Beecham, a worldwide leader in pharmaceutical research and healthcare, has a challenging opportunity for an Investigator in our Inflammation and Respiratory Pharmacology Department.

The qualified candidate will apply knowledge of biochemistry, immunology and molecular biology to contribute to and help establish research in the area of wound healing/angiogenesis. Other responsibilities include establishing new assay systems directed at the discovery of novel targets in wound healing/angiogenesis and acting as a resource for the Department in his/her area of expertise.

Qualifications include a Ph.D. in Immunology, Cell Biology or Molecular Biology or equivalent, plus a minimum of 2 years of postdoctoral experience. Must be able to work independently, yet have a demonstrated ability to work and participate in a team environment and to train and supervise others. A record of accomplishment based on publications and references must be established.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. Qualified candidates should send resume with salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code #H0424, P.O. Box 799, Conshohocken, PA, 19428. We are an Equal Opportunity Employer, M/F/D/V.



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POSITIONS OPEN

UNIVERSITY OF OKLAHOMA

Grayce B. Kerr Endowed Chair in Biochemistry

The Department of Chemistry and Biochemistry, The University of Oklahoma (OU), Norman Campus, is seeking an outstanding individual to occupy the **GRAYCE B. KERR ENDOWED CHAIR** in Biochemistry. Candidates must have an active, funded research program in any area of biochemistry, a strong record of research accomplishments, and a demonstrated commitment to undergraduate and graduate education. The successful candidate must qualify for a tenured professor appointment in the department. The Kerr Chair will occupy ample newly renovated research space and will have continuing discretionary research support funds. A competitive salary, fringe benefits, and start-up package will be offered. Applicants should submit a complete curriculum vitae including salary history, a summary of teaching experience, a description of current research activities with plans for future work, and the names, addresses, telephone and fax numbers of three individuals who are willing to supply letters of reference. Review of applications will begin 15 January 1995 and continue until an appointment is made. Application materials should be sent to: **Dr. David A. Young, Dean and Chair, Grayce B. Kerr Endowed Chair Search Committee, College of Arts and Sciences, University of Oklahoma, 601 Elm, Room 1100, Norman, OK 73019-0315.** The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. OU has a policy of being responsive to the needs of dual career couples.

Basic and Clinical Motor Control. A **TENURE-TRACK FACULTY** position is available in the Department of Physical Medicine and Rehabilitation of Rush-Presbyterian-St. Luke's Medicine Center. Responsibilities include teaching residents motor control and basic neurophysiology and conducting independent research in the areas of motor control and biomechanics with an emphasis on control of disordered movements. Successful applicant must have a Ph.D. in Physiology, Neuroscience, Biomechanics, or a related area, at least two years of postdoctoral experience, and an ability to provide extramural funding. Rank and salary are commensurate with the qualifications. The earliest starting date is January 1, 1995. Please mail a letter of interest, reprints of three recent publications, names of three references, and current curriculum vitae to: **Dr. John J. Nicholas, Department of Physical Medicine and Rehabilitation, Rush Medical College, 1725 West Harrison Street, Suite 1018, Chicago, IL 60612.** Telephone: 312-942-3675; FAX: 312-942-4234.

Rush-Presbyterian-St. Luke's Medical Center is an Equal Opportunity/Affirmative Action Employer.

Environmental Toxicologist: **TENURE-TRACK POSITION** available fall 1995. Ph.D. and applied ecology background with biological emphasis required. Duties include teaching and assisting in the expansion and administration of the Environmental Biology program. The successful candidate should have expertise in one or more of the following: environmental risk analysis, bioremediation, waste management and environmental toxicology. Development of a research program is expected.

Send letter of application; curriculum vitae; and names, addresses, and telephone numbers of three references to:

Dr. Marian Wilson-Comer
Search Committee Chair
Department of Biological Sciences
Chicago State University
9501 South King Drive
Chicago, IL 60628-1598

Review of applications will begin February 1, 1995, and continue until position is filled. *Chicago State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Several **POSTDOCTORAL POSITIONS** available immediately at the University of Wyoming Department of Molecular Biology. The research entails the molecular, cellular and biochemical aspects of insect receptors for the insecticidal toxins of *Bacillus thuringiensis*. Experience in molecular biology including cloning, sequencing, transfection and gene expression systems is required. Experience in cell culture, and immunochemical techniques, and protein purification is desirable. Send curriculum vitae and the names of three references to: **Dr. Lee Bulla, Department of Molecular Biology, University of Wyoming, P.O. Box 3944, Laramie, WY 82071-3944.**

POSITIONS OPEN

Biology: Marine Biologist/Zoologist. Gordon College anticipates a **FACULTY OPENING** in the Department of Biology beginning August 1995. Applications are invited from candidates in marine biology who specialize in zoology. It is anticipated that the individual will have the Ph.D., teach comparative animal physiology or other advanced zoology courses as well as introductory level courses. Supervision of the summer Marine Biology Institute is expected of the candidate along with supervision of undergraduate research projects. Gordon College is a four year liberal arts college in the evangelical Christian tradition, is located on a 700-acre wooded campus containing several lakes and is close to the ocean on Cape Ann. It is 25 miles north of Boston and 100 miles south of the White Mountains. Interested individuals should include a résumé and a one to two page summary of applicant's educational philosophy when requesting application materials. Contact: **Stanley D. Gaede, Provost, Gordon College, 255 Grapevine Road, Wenham, MA 01984-1899.** Telephone: 508-927-2300 ext. 4206. Evaluation of applications will begin immediately. *Gordon College is an Affirmative Action/Equal Opportunity Employer who seeks women and minority applicants.*

Wildlife Ecologist. The School of Forestry and Wood Products seeks applications for a nine-month (60/40 teaching/research), **TENURE-TRACK POSITION** emphasizing ecosystem-based natural resource management. Interest/expertise in any of the following areas will best complement current faculty: avian ecology, conservation biology, biodiversity, wildlife/habitat relationships, environmental toxicology (in context of Great Lakes wildlife). Teaching expected in ornithology, conservation biology, and in areas of expertise, plus development of an externally funded research program involving M.S. and Ph.D. students. Ph.D. required, strong quantitative ability highly desirable. Open rank. Send curriculum vitae, names of three references (with address and telephone number), one-page statements of research interests and teaching philosophy, and selected reprints to: **Wildlife Ecologist Search Committee, School of Forestry and Wood Products, 1400 Townsend Drive, Michigan Technological University, Houghton, MI 49931-1295.** Review of applications will begin in early January 1995 and continue until an appropriate candidate is found. *Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

Environmental Biologist: **TENURE-TRACK POSITION** available fall 1995. Ph.D. with zoological emphasis required. Responsibilities include teaching and assisting in the expansion and administration of Environmental Biology program. The successful candidate should have expertise in one or more of the following: biometrics, aquatic/marine ecology and ecosystem ecology. Development of a research program is expected.

Send letter of application; curriculum vitae; and names, addresses, and telephone numbers of three references to:

Dr. Marian Wilson-Comer
Search Committee Chair
Department of Biological Sciences
Chicago State University
9501 South King Drive
Chicago, IL 60628-1598

Review of applications will begin February 1, 1995, and continue until position is filled. *Chicago State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

CHEMISTRY: Gordon College anticipates an opening in the Department of Chemistry beginning August 1995. It is anticipated that the candidate teach analytical chemistry, inorganic chemistry and principles of chemistry. It is expected that this individual will be responsible for 1) undergraduate student advising, 2) day-to-day maintenance of the departmental, and electrochemical, spectroscopic and chromatographic apparatus, and 3) pursue an active lab-oriented undergraduate research program. Interested individuals should include a résumé and a one to two page summary of applicant's educational philosophy when requesting application materials. Applicants should address inquiries and requests for application materials to: **Stan D. Gaede, Provost, Gordon College, 255 Grapevine Road, Wenham, MA 01984-1899.** Telephone: 508-927-2300 ext. 4206. Evaluation of applications will begin immediately. *Gordon College is an Affirmative Action/Equal Opportunity Employer and seeks women and minority applicants.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS—Cytokine Signal Transduction/Monoclonal Antibody Technology in interactive laboratory working on the p21^{ras} pathway in lympho-hemopoietic cells (*Proc. Natl. Acad. Sci. USA*, **89**: 1587, 1992; *J. Immunol.*, **149**: 1683, 1992; *J. Biol. Chem.*, **269**: 21165, 1994) and distinctive features of signal transduction by IL-4/IL-13 and IL-3/IL-5/GM-CSF (*J. Biol. Chem.*, **269**: 5865, and **269**: 23764, 1994). Approaches are biochemical and molecular genetic, and include intracytoplasmic expression of single-chain Fv fragments specific for signal transduction molecules and generation of monoclonal antibodies from single selected rabbit or human lymphocytes for use as analytical tools or therapeutic agents. Candidates must be capable of independent work on the application of new techniques, and should have strong backgrounds in molecular biology/biochemistry, signal transduction, transgenic technology or immunology. Positions offer competitive stipends and the opportunity to do innovative research in a strong, interdisciplinary environment with excellent technical support. Send curriculum vitae and the names of three referees to: **Dr. John Schrader, The Biomedical Research Centre, 2222 Health Sciences Mall, University of British Columbia, Vancouver, BC V6T 1Z3 Canada.** FAX: 604-822-7815; Email: john@brc.ubc.ca. *University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities.*

POSTDOCTORAL POSITIONS MOBILE SELF-SPLICING INTRONS

Nucleic acid rearrangements of group I introns are studied at the RNA and DNA levels. Projects include analysis of self-splicing RNAs and DNA-based intron mobility in prokaryotes using genetic and biochemical approaches. Nucleic acid-protein interactions are a focus of study. Experience in genetics, DNA recombination mechanisms, RNA splicing and/or nucleic acid chemistry desirable. Competitive, federally funded salary (through Health Research, Inc.). Interested candidates should forward their curriculum vitae and have three letters of reference sent to:

Dr. Marlene Belfort
Wadsworth Center, NY State Department of Health
and Department of Biomedical Sciences,
State University of New York
Box 22002
Albany, NY 12201-2002
Email: belfortm@tethys.ph.albany.edu.
Equal Opportunity/Affirmative Action Employer

A **POSTDOCTORAL POSITION** is available immediately for a Ph.D. to participate in studies of immunochemistry, structure and metabolism of lipoprotein(a). The ideal candidate will possess a strong background in lipoproteins and knowledge of basic molecular biology techniques. Excellent oral and written communication skills and the potential to work independently are required. The appointment is for three years, possibly renewable.

For consideration, please send curriculum vitae and three letters of recommendation to:

Dr. Santica M. Marcovina
University of Washington
Division of Metabolism, Endocrinology and
Nutrition/Northwest Lipid Research Labs
2121 North 35th Street, XD-48
Seattle, WA 98103

Telephone: 206-685-3331; FAX: 206-685-3279

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

POSTDOCTORAL POSITION available immediately to study the application of new technologies to develop immunoassays for measuring diabetes-associated autoantibodies. The project requires the use of a variety of immunology, molecular biology and biochemical methods with semi-automated work station technologies. Candidates should possess an interest in human immunology and a creative aptitude for developing new immunoassay strategies. A Ph.D. degree is required; experience in monoclonal antibodies and molecular biology is strongly preferred. Send curriculum vitae, statement of research interests and names and telephone numbers of three references to: **Dr. Santica Marcovina, University of Washington, 2121 North 35th Street, Seattle, WA 98103.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

THE NATIONAL RESEARCH COUNCIL
announces opportunities for
Postdoctoral & Senior
Research Associateship Awards
available at the
U.S. ARMY MEDICAL RESEARCH INSTITUTE OF
INFECTIOUS DISEASES

Awards sponsored by the National Research Council are available for research to be conducted at the U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, Frederick, MD. Applications are invited from individuals interested in pursuing research on the mechanisms of microbial pathogenesis and host resistance to infection with *Yersinia pestis*, with use of molecular approaches (1) to study the role of plasmid- and chromosomally encoded virulence factors in the virulence of, and immunity to, *Y. pestis*; or (2) to identify mechanisms of innate and acquired resistance to *Y. pestis*.

Stipends begin at \$35,045 per annum and are appropriately higher for applicants with greater than 5 years' experience. Requirements: Ph.D. or equivalent. U.S. citizenship preferred; experience in microbiology, molecular biology and biochemistry would be advantageous. Awards are for 1 year with possible renewal for up to 3 years maximum.

FOR FURTHER INFORMATION CONTACT:

Dr. Susan Welkos, Bacteriology Division, USAMRIID Bldg. 1425
 Ft. Detrick, Frederick MD 21702-5011
 Phone: 301-619-7341 Fax: 301-619-2152

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by: January 15 will be reviewed in February; April 15, in June; and August 15, in October.



FOR APPLICATION MATERIALS CONTACT:
The National Research Council
The Associateship Programs (TJ-2094/UA)
 2101 Constitution Avenue, NW
 Washington, DC 20418
 FAX: (202) 334-2759

RESEARCH OPPORTUNITY IN
ANALYTICAL BIOCHEMISTRY

The Analytical Biochemistry Department of Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment.

RESEARCH ASSOCIATE, PROTEIN ANALYSIS
(JOB #1390-B)

This person will join a laboratory that is responsible for analysis of transgene expression in transgenic plants. The successful candidate will be interacting with several research groups and will participate in the planning and implementation of experiments.

EDUCATION/EXPERIENCE: MS degree or equivalent in molecular biology, biochemistry, or related field OR a BS degree plus 2 years of relevant research experience is required. Experience in protein biochemistry/analysis (including immunoassays) is desired and experience with analysis of transgenic plants and statistical analysis is preferred. Strong communication skills are also essential.

Applications received by December 30, 1994 will be assured of consideration. However, applications will be considered until the position is filled.

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

PIONEER HI-BRED INTERNATIONAL, INC.
 Analytical Biochemistry Department
 ATTN: Dawn M. Meyer, Job #1390-B
 P.O. Box 1004, 7300 NW 62nd Avenue
 Johnston, IA 50131-1004



At AIS Research is
INNOVATION.

For more than 10 years, Applied Immune Sciences (AIS) has pioneered revolutionary advances that could greatly impact the world throughout the next decade and beyond. AIS has developed a leadership position in gene therapy and in cutting-edge research applications in cancer, AIDS and other immune system diseases.

Adeno Associated Virus
in Gene Therapy

We are now looking for team members to join our expanding Adeno Associated Virus/Gene Therapy group presently working on three major projects: development of systems for large scale production of recombinant AAV vectors; optimization of infection protocols; and construction and utilization of therapeutic vectors.

Senior Scientist

Requires a Ph.D. in Molecular or Cell Biology, with a minimum of 2-4 years' post-doctoral experience in recombinant adeno associated, adeno or retro virus for gene therapy. A good publication record in the relevant field and strong communication skills are also required. Industry and supervisory experience desired. (Job #9467)

Post-Doctoral Fellow

A Ph.D. in Cell Biology, Molecular Biology or Virology. Experience working with bone marrow stem cells and gene expression in heterologous systems preferred. (Job #PD)

Research Associates

A B.S. with 2-4 years' experience in Molecular Biology or Cell Biology lab. (Job #9419)

T Cell Receptor Research

As part of our Molecular Biology group, responsibilities will include the molecular characterization of human T cell receptors on cultured T lymphocytes, constructions and expression of chimeric receptors, and the performance of functional assays on human T lymphocytes.

Research Associate

B.S. with 4-6 years' experience in the area of Molecular Biology and Immunology. (Job #9425)

AIS offers a competitive salary and a comprehensive benefits package. For immediate consideration, forward your resume quoting appropriate Job code, to Professional Staffing, Applied Immune Sciences, 5301 Patrick Henry Drive, Santa Clara, CA 95054-1114. FAX: 408-980-5888. Principals only, please. EOE M/F/D/V.



POSITIONS OPEN

HARVARD MEDICAL SCHOOL

POSTDOCTORAL POSITIONS. Our laboratory has generated mice deficient in various adhesion receptors functioning in the vascular and immune system. We study the role of these receptors in cancer metastasis, atherosclerosis and inflammation. One position is open immediately, another in summer 1995. Experience with animals is preferred. Send curriculum vitae and names of three references to: **Dr. Denisa Wagner, Center for Blood Research, 800 Huntington Avenue, Boston, MA 02115. FAX: 617-278-3368.**

POSTDOCTORAL POSITION available immediately to study mechanisms of action of novel cytotoxins and drug resistance modulating agents (e.g., *Cancer Res.*, 54:3779 and *Oncol. Res.*, 6:211). Ph.D. with experience in modern biochemical and molecular biology techniques required. Interest in drug development and protein structure-function analysis helpful. Fox Chase Cancer Center provides a highly interactive research environment with excellent technical and clinical resources in a suburban setting. Send curriculum vitae and names of three references to: **Dr. Charles D. Smith, c/o Employment Specialist, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in molecular virology/biochemistry available immediately to work on translation control mechanisms in picornavirus-infected cells. One goal of the project will be molecular cloning of a cellular protease which controls translation rates. Must have a Ph.D. or M.D. and relevant molecular or biochemical experience. Send curriculum vitae, and names of three references to: **Dr. Richard E. Lloyd, Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. FAX: 405-271-3117. An Equal Opportunity Employer.**

POSTDOCTORAL ASSOCIATE: Position available immediately in a laboratory studying the molecular mechanisms responsible for the phenotypic switching of *Candida albicans*. Other projects include the development and characterization of DNA fingerprinting probes for infectious fungi. Experience in molecular biology and yeast genetics is essential. Send curriculum vitae and names of three references to: **Dr. David R. Soll, Department of Biological Sciences, 138 Biology Building, University of Iowa, Iowa City, IA 52242-1324. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL RESEARCH—Columbia University. Postdoctoral scientists are sought to study regulation of microtubule-associated proteins and motors in the cell cycle and myogenesis (Dr. Chloe Bulinski) and microtubule dynamics and tubulin post-translational modifications in cell motility and contact inhibition (Dr. Gregg Gundersen). Interested individuals should send a curriculum vitae to **Dr. Bulinski or Dr. Gundersen at Department of Cell Biology and Anatomy, Columbia University, 630 West 168th Street, NY, NY 10032. We take Affirmative Action toward Equal Opportunity.**

POSTDOCTORAL FELLOWSHIP in Neurobiology. Available immediately at the University of Maryland Medical Center, Baltimore, Maryland to study immunoregulatory molecules expressed by glial cells. Applicant should have a Ph.D. or M.D. and at least two years of experience in molecular biology or have primarily focused in this area during doctoral training. A familiarity with signal transduction and protein/lipid chemistry is also desirable. Interested applicants should respond to: **Carol Lee Koski, M.D., Department of Neurology, University of Maryland Medical System, 22 South Greene Street, Baltimore, MD 21201. The University of Maryland encourages women and minorities to apply. An Equal Opportunity Employer.**

POSTDOCTORAL FELLOW OR ADVANCED LABORATORY TECHNICIAN POSITION

Immediately available in basic HIV research on screening for new anti-HIV compounds and their mode of action. Experience in handling laboratory strain of HIV is preferred. Tissue culture experience is essential. **Dr. H. Kaji, Pharmacology, Jefferson Medical College, Philadelphia, PA 19107 USA. Telephone: 215-955-6547; FAX: 215-923-7343.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE FISHERIES OCEANOGRAPHY

The Pelagic Fisheries Research Program (PFRP), a component of the Joint Institute of Marine and Atmospheric Research (JIMAR) jointly sponsored by the University of Hawaii and the National Oceanic and Atmospheric Administration (NOAA), pursues multidisciplinary research on fisheries for tunas, billfish and related species in support of management of these fisheries by the Western Pacific Regional Fishery Management Council in Hawaii, American Samoa, Guam and the Commonwealth of the Northern Mariana Islands.

Applications are invited for a **VISITING POSTDOCTORAL FELLOWSHIP** in fisheries oceanography. The successful candidate will be expected to work closely with other specialists within the PFRP. The general area of interest is the relationship between oceanographic processes and fisheries for tropical tunas and billfish. Some specific areas of interest are the effect of large-scale oceanographic features on interannual variability in fisheries and theoretical studies of tuna schooling behavior. Other areas of interest are use of genetic data to infer within-generation exchange rates between population centers and development of remotely interrogated archival tags.

Appointment is for one year with the possibility of extension dependent on performance and availability of funds. Position will be filled when a suitable applicant is found.

Applicants must possess a Ph.D. in an appropriate field with some experience in one of the above areas of research.

To apply, submit résumé, copies of pertinent publications, and a one page outline of proposed research to: **Dr. John Sibert, Pelagic Fisheries Research Program, Joint Institute of Marine and Atmospheric Research, 1000 Pope Road, University of Hawaii at Manoa, Honolulu, HI 96822.**

VASCULAR BIOLOGY UNIVERSITY OF VIRGINIA Outstanding Opportunities for Graduate Students and Postdoctoral Fellows

The University of Virginia offers a multidisciplinary program in Vascular Biology emphasizing Physiology, Pharmacology, Biophysics and Cell Biology of the Vessel Wall. Twenty-four investigators are participants in a training program with a long history of successful mentoring of both graduate students and postdoctoral fellows. Our particular strengths are in the areas of Biophysics, Cell Signaling and Microcirculation. Laboratory investigations are underway in cell-cell communication in microvessels, cardiac, smooth muscle and endothelial cell electrophysiology, smooth muscle cell signal transduction and leukocyte-endothelial cell interactions. Interested and competitive applicants should apply to: **Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, Box 449, Health Sciences Center, University of Virginia, Charlottesville, VA 22908. These positions are restricted to permanent residents or citizens of the United States.**

CYTOGENETICIST Merck & Co., Inc.

We seek a **CYTOGENETICIST** who will bring a sophisticated approach to problem solving and project implementation for a variety of our Q.C. efforts. The scientist we seek will possess an M.S. or a Ph.D. in Genetics and three to five years of pharmaceutical industry experience, especially in the area of cell culture (human diploid cell lines). Familiarity with cytogenetic analyses required.

If you're a proven communicator with strong presentation skills and the ability to coordinate multi-departmental project teams on a variety of efforts, you would be ideal. Qualified applicants should send a résumé in confidence, to: **Department S-1209, Merck & Co., Inc., P.O. Box 4, WP53B-128, West Point, PA 19486-0004. Equal Opportunity Employer/Minority/Female/Disabled/Veteran.**

POSTDOCTORAL POSITIONS to study basic mechanisms of epileptogenesis and synaptic plasticity using *in vitro* electrophysiological methods. Experience in electrophysiological recording techniques is desirable. Send curriculum vitae to: **Wilkie A. Wilson, Ph.D., Department of Pharmacology, Box 3813, Duke University Medical Center, Durham, NC 27710. Duke University Medical Center is an Equal Opportunity Employer.**

POSITIONS OPEN

UNIVERSITY OF MINNESOTA

TECHNICAL SUPPORT COORDINATOR (User Services Manager), Job No. 551141. Supercomputer Institute. Qualifications: B.A./B.S. in Computer Science, Engineering, or related field plus five years of work experience in Unix workstation environment to include: two years of direct user support (including user training), two years of system administration and two years of supervision of user support staff. Prefer: experience with training, direct user support and system administration with Unix workstations. Experience with SGI, Sun or RS6000. Familiar with networking, LANS, WANS, TCP/IP. Good written and oral communication skills. Duties: 25% Supervision of technical support staff; 25% User and system support; 20% Technical liaison; 10% Administrative planning; 10% Workstations/Facilities planning; 10% Budget administration. Salary: \$2,916 to \$4,870.

Application materials are located (computer supplement required) and accepted at the **University Campus Office of Human Resources, 1313 5th Street, SE, Suite 226, Minneapolis, MN 55414. Hours: Monday through Friday 8 am to 4:30 pm. Or call 612-645-6060, category 2500 to request materials. Résumés are not accepted. Equal Opportunity Employer and Educator.**

MICROBIOLOGIST

Applications are invited for three **MICROBIOLOGIST** positions for the U.S. Army Dugway Proving Ground, Utah. This is an opportunity to join a team of professionals involved with unique challenges in the fields of biological defense testing and analysis to include technical transfer worldwide, and evaluation of state-of-the-art technology. The successful applicants will have Master's or doctorate in microbiological sciences. One of the vacancies will be involved in biological safety and the other two in aerobiology or biotechnology. These positions are temporary and expected to last four years. Incumbents will be entitled to health and life insurance. Salary range is \$34,662 through \$54,004 per annum. U.S. citizenship is required. Contact: **Ms. Jackie Wilde, Civilian Personnel Office, Dugway Proving Ground, UT 84022-5000. Telephone: 801-831-2181, Monday through Thursday, 7:00 a.m. to 5:30 p.m. MST for information and application packet. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT RESEARCH MICROBIOLOGIST, Department of Laboratory Medicine, University of California, San Francisco. Position available to perform independent study and development of novel antifungal compounds. Isolation and characterization of genes responsible for antifungal resistance/susceptibility. Requires Ph.D. in Microbiology or related discipline, three to five years of postdoctoral experience, demonstrable expertise in gene cloning, DNA sequencing, RNA/DNA/protein purification, culture of fungal pathogens, MIC determinations and enzymology. Salary range \$41,600 to \$43,300 per year. Please send curriculum vitae, a brief statement of research interests and the names of references by **January 31, 1995**, to: **Dr. Geo. F. Brooks, Search Committee Chairman, Department of Laboratory Medicine, UCSF, San Francisco, CA 94143-0134. The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL/RESEARCH FELLOW positions available to study molecular and cellular biology of colonic cell differentiation and transformation, and application to clinical studies. Apply by submission of curriculum vitae and names of references by mail only to:

**Leonard H. Augenlicht, Ph.D.
Director, Molecular Oncology Program
Albert Einstein Cancer Center/
Montefiore Hospital
Department of Oncology
111 East 210th Street
Bronx, NY 10467**

FELLOWSHIPS. Stanford University's Center for International Security and Arms Control announces one-year **FELLOWSHIPS** starting fall 1995 for experienced scientists or engineers interested in doing research on technical and policy problems relating to arms control, international security, defense planning, and defense conversion. Winners will spend 12 months in residence at the Center. Stipends determined on a case-by-case basis. Applications due February 17, 1995. For information, write: **CISAC, 320 Galvez Street, Stanford, CA 94305-6165. FAX: 415-723-0089; Email: hf.gxb@forsythe.stanford.edu.**

Life Science Sales

Bio-Rad Laboratories has openings in major US cities for aggressive and customer-oriented sales professionals to continue their record of success selling research products.

These positions require a BS or equivalent in the Life Sciences (MBA a plus) along with 2+ years experience in the sale of High Technology Chromatography equipment and/or scientific instrumentation. Successful candidates must be willing to relocate. Some travel required.

For consideration, please send your resume and salary history to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 668, Hercules, CA 94547. An EEO/AA Employer.

BIO-RAD

Bio-Rad Laboratories

Join Nycomed R&D Inc., the worldwide leader in diagnostic imaging agents. We currently have the following opportunities available:

Principal Research Pathologist Drug Safety Assessment

Participate as a member of an interdisciplinary team in the discovery and development of diagnostic imaging molecules, including performing morphologic evaluation of animal tissues and participating in planning, conducting, interpreting and reporting of drug safety studies. Requirements include a DVM/PhD in Anatomic Pathology with a minimum of 5 years related experience, and ACVP Board Certification. At least 2 years experience as an anatomic pathologist in the pharmaceutical industry and knowledge of immunohistochemistry techniques are preferred. Position #NYM-04-94.

Research Scientist Histotechnologist Drug Safety Assessment

Responsible for the collection and processing of tissues, including support functions for histomorphologic evaluation in support of the development of diagnostic imaging agents. Requirements include a BS in biological sciences and 2 years experience processing and preparing histomorphologic specimens. ASCP-HT certification required. Position #NYM-03-94.

Senior Research Investigator Drug Metabolism & Pharmacokinetics

Conduct metabolism and pharmacokinetic studies with novel diagnostic imaging agents in a variety of preclinical species and in humans. Responsibilities will also include acting as Study Director, preparing protocols, study reports and regulatory documents. Requirements include a PhD in Biochemistry, Biopharmaceutics or Pharmacokinetics and a minimum of 2 years related experience beyond post-doctoral training. Experience must include handling and use of radioisotopes and knowledge of biotransformation and pharmacokinetic processes. Working knowledge of inorganic chemistry and prior experience with diagnostic imaging agents is preferred. Position #NYM-05-94.

We offer an exceptional salary and benefits package. To be considered for one of the above positions, please forward your resume with salary requirements and Position #, to: **Human Resources BJM, NYCOMED R&D Inc., 1250 S. Collegeville Road, P.O. Box 5000, Collegeville, PA 19426-0900.**



NYCOMED

EQUAL OPPORTUNITY EMPLOYER M/F/D/V

BIOLOGICALS DISCOVERY SCIENTIST

INCYTE PHARMACEUTICALS is an energetic, entrepreneurial biotech company focused on high throughput cDNA sequencing technologies, computerized sequencing analysis, and sequencing-based gene discovery. We offer the following opportunity to join a strong group of molecular biologists developing novel therapeutic proteins.

A Ph.D. and at least 2 years of postdoctoral or equivalent experience are required, along with demonstrated productivity and technical expertise in cDNA library construction, cloning, and PCR. Ideally, you will have a strong background in structure function analysis and ligand-receptor interaction.

Incyte offers a premier work location in Palo Alto, California, along with competitive salaries, an excellent benefits package and equity participation. Please forward your c.v. to Human Resources/SBD, Incyte Pharmaceuticals, Inc., 3330 Hillview Ave., Palo Alto, CA 94304, FAX 415/855-0572. Equal opportunity employer.



INCYTE
PHARMACEUTICALS, INC.

*Changing The Practice of Medicine
Through Molecular Biology.*

We're Protein Design Labs (PDL), a next-generation biotechnology company which uses computer modeling and genetic engineering to develop novel, therapeutic proteins for the treatment of human disease. Join our growing organization in the following **San Francisco Bay Area** opportunities.

Scientist/Staff Scientist

You will manage all cell culture operation, including optimization of the cell culture medium and conditions for new cell lines in seed cultures and bioreactors. Providing cell culture assistance, product testing and preclinical studies will also be involved. An in-depth knowledge of cell biology and metabolism/catabolism of media components is required, as is hands-on expertise in cell culture media optimization for mammalian cell culture of hybridoma cells for antibody production. You must be computer literate with good interpersonal/organizational skills. A BS, MS or PhD in Cell Biology and 6-10+ years of related experience are necessary. Experience with small bioreactors, perfusion bioreactor systems and large scale cell culture is desired. Job Code: SS

Associate Scientist/Scientist

Your main focus will be on developing/optimizing the down stream processing schemes for the recovery of monoclonal antibodies from mammalian cell culture, as well as recovering and purifying proteins from cell culture harvests to support research, product testing and preclinical studies. Areas of expertise include protein filtration/purification from mammalian cell culture sources and experience in analyzing isolated proteins such as SDS-PAGE electrophoresis, isoelectric focusing and HPLC. The ability to isolate proteins up to at least the 100 liter scale is essential, as is expertise in micro- and ultra-filtration or chromatographic separations. You need a BS, MS or PhD in Protein Chemistry or Purification Sciences and 5-8+ years of relevant experience. Job Code: AS1

Associate Scientist

You will oversee the GMP/GLP lab in Process Development where most of the work is on clinical samples. This includes scheduling and supervising ELISA/Bioassay testing to meet clinical and preclinical timelines, and assisting lab staff in troubleshooting and organizing high throughput work schedules. You will also coordinate GMP/GLP documentation and transfer of technology from the development group to the clinical services group. Requires a BS/MS in Biological or Chemical Sciences, strong communication skills, and 6+ years' relevant experience, preferably including a supervisory role in a clinical lab. Biotech experience a plus. Job Code: AS2

We offer a pleasant working environment and professional challenge and growth. Please send your resume, indicating Job Code, to Protein Design Labs, Inc., Human Resources, 2375 Garcia Ave., Box S, Mountain View, CA 94043. FAX (415) 903-3730. EOE



UNIVERSITY OF Massachusetts

A M H E R S T

FACULTY POSITION Chemical Education

The Department of Chemistry invites applications for a new tenure-track professorship at the junior or senior level, starting September 1995 for a Ph.D. chemist with research interests in computer-assisted education including multimedia material development/implementation, and a strong commitment to and experience in undergraduate teaching. The University is committed to supporting creative, multimedia course development in the sciences. Applicants should provide a summary of their research and teaching objectives; a curriculum vitae with a list of publications; and the names, addresses, Fax and telephone numbers of three references to be sent directly to **Dr. Ronald D. Archer, Chair, Faculty Search Committee B, Department of Chemistry, Lederle Graduate Research Tower A, University of Massachusetts, Box 34510, Amherst, MA 01003-4510.** Salary and rank commensurate with qualifications and experience. The position will be open until filled. Consideration of applications will begin on January 2, 1995.

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

GENOSYS

Genosys Biotechnologies, Inc., the major international producer of custom oligonucleotides, peptides and genes has three new technical positions in our rapidly growing organization:

PEPTIDE OPERATIONS DIRECTOR. As the leader of our Peptide Synthesis Department, you will support and develop our peptide synthesis business. The successful candidate will play a key role in diversifying our peptide operations into further commercial venues such as peptide antisera, standard peptide products and antibody production. Qualifications should include a Ph.D. or M.S. with extensive experience in solid-phase peptide synthesis and characterization, as well as management experience. Strong organizational, communication and analytical skills as well as an entrepreneurial spirit are required. Experience with antibodies and immunology is desirable.

RESEARCH SCIENTIST. As a member of our R&D group, with a Ph.D. in Molecular Biology/Molecular Immunology and 3-5 years experience, you will be an integral part of our expansion by developing new product lines and technologies for Genosys. The person we seek is a self-motivated, innovative thinker who can plan and execute independent research. Practical experience with PCR, DNA sequencing and cloning techniques is essential, in addition to a keen awareness of current literature and technologies. You will conduct laboratory benchwork and help provide our customers with technical support. Experience with polyclonal/monoclonal antibody production, and immunoassays is an added benefit.

PRODUCT MANAGER. Our marketing team is seeking an exceptional individual to become Product Manager for an expanding line of immunology products. Working in an entrepreneurial environment, you will be the R&D interface responsible for providing market direction, managing the product development process, and technically supporting the products. Requirements include a biology degree (graduate degree a plus) with a working knowledge of immunology and molecular biology techniques, and a desire to see new products take form and significantly contribute to our growth.

Genosys offers a competitive compensation and benefits package and a dynamic team-oriented working environment in the Research Forest of The Woodlands. For prompt consideration, please forward your curriculum vitae or resume to:

Personnel Department, Genosys Biotechnologies, Inc., 1442 Lake Front Circle, Suite 185, The Woodlands, TX 77380. *Genosys Biotechnologies, Inc. is an equal opportunity employer.*

MOLECULAR IMMUNOLOGISTS/ CELL BIOLOGISTS

Gwen Knapp Center for Lupus and
Immunology Research
The University of Chicago

The Gwen Knapp Center for Lupus and Immunology Research of the University of Chicago is seeking applicants at the Assistant, Associate and Full Professor levels to join the newly formed Center. The Center is committed to developing a strong program in molecular immunology. We are seeking outstanding individuals who are using the approaches of molecular biology and cell physiology to examine basic immune mechanisms and/or disorders such as signal transduction, gene regulation, and antigen processing. Existing immunology programs at the University of Chicago include: lymphocyte development, B and T cell activation, antigen presentation, tumor immunology, transplantation, and autoimmunity. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. Faculty appointments will be tenure-track in the most appropriate academic department where the candidate will be expected to exercise full membership. New state-of-the-art laboratory space will be located within the Institute for Molecular Medicine which is now being formed. This Institute will also house programs in molecular oncology, vascular biology, human genetics, and neurobiology. Letters of application including curriculum vitae, bibliography, a brief statement indicating research interest, and the names of 3 references should be sent to: **Dr. Craig B. Thompson, Director, Gwen Knapp Center for Lupus and Immunology Research, 924 E. 57th Street, Room R410, Chicago, IL 60637-5420.**



THE UNIVERSITY
OF CHICAGO

The University of Chicago is An Affirmative Action Equal Opportunity Employer

Assistant or Associate Professor Human Geneticist/Molecular Epidemiologist or Oxidative Stress/Molecular Biologist University of Cincinnati Medical Center Cincinnati, Ohio

018N. A full-time tenure-track faculty position is available immediately. The primary department for this appointment is the Department of Environmental Health in the College of Medicine; joint appointments with other departments in the College (e.g. Pediatrics, Internal Medicine or Pathology) could be negotiated. Candidate must have an M.D. or Ph.D. degree, at least 3 years' postdoctoral experience in molecular biology and genetics, and an active/funded research program in human genetics and epidemiology or in oxidative stress and molecular toxicology. Additional research experience in the interaction between genes or gene products and occupational and/or environmental agents is strongly preferred. Primary criteria for appointment will include a relevant publication record in peer-reviewed journals, demonstrated ability through grant awards for significant population/clinical research or basic molecular biology and genetics research, and evidence of successful teaching through student evaluations.

It is intended that the candidate join in the expansion of an existing research program in ecogenetics or in oxidative stress toxicology and collaborate with other investigators having similar interests and objectives—specifically in the design and conduct of clinical and population studies of environmental exposures, in order to identify potentially high-risk subpopulations, or in basic molecular studies into the mechanism(s) of the oxidative stress response. Interdepartmental collaborations, through the Center for Environmental Genetics at this broad-based State of Ohio University Medical Center, are very much encouraged.

Interested candidates should forward a curriculum vitae, a list of publications, a summary of research interests and three letters of recommendation to: **Daniel W. Nebert, M.D., Director, Center for Environmental Genetics, University of Cincinnati, PO Box 670056, Cincinnati, OH 45267-0056.** Applications must be received by **December 31, 1994.** *The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.*

Research Scientist

Bio-Rad Laboratories is a world leader in the fields of clinical diagnostics, life science research products and analytical instruments.

Our continued growth has created the need for creative scientists with experience in the commercial development of non-isotopic immunoassays. Successful candidates will have a BS, MS, PhD in Life Sciences or equivalent and demonstrated success in the development of immunochemical assays.

For consideration, please send your resume, complete with salary history to: Bio-Rad Laboratories, 4000 Alfred Nobel Dr., Dept. 667, Hercules, CA 94547. An Equal Employment Opportunity / Affirmative Action Employer.

BIO-RAD

Bio-Rad Laboratories

Cominco Fertilizers Ltd's Ag Bio group conducts research to develop products which stimulate growth of plants. Technology targets include plant growth-promoting rhizobacteria (PGPR's), biological control agents (BCA's), dinitrogen-fixing rhizobia and controlled release fertilizers.

New Products R&D Research Associates

We require several Ph.D research scientists to work in our multi-disciplinary team in Lethbridge, Alberta. The successful candidates will combine an excellent knowledge of rhizosphere microbiology, agronomy, or silviculture with experience in experimental design and statistical analysis. Applicants must be innovative, creative, and dedicated to developing superior products that exceed customer expectations.

Openings exist for:

- Research agronomist to coordinate field research programs;
- Plant pathologist to study biological control of soil-borne plant pests;
- Microbial ecologist to study PGPR's;
- Rhizobiologist to study N₂-fixing-rhizobial symbioses;
- Fermentation specialist.

In return for your expertise, we offer an attractive salary package including benefits. Continued employment will be contingent upon satisfactory performance and suitable work being available.

Cominco Fertilizers is committed to providing equal opportunity and treatment to all individuals in a safe work place. You must be eligible to work in Canada and successfully complete a pre-placement medical examination.

Please send a curriculum vitae no later than December 30, 1994, to:

Dr. R.J. Rennie
Cominco Fertilizers Ltd. Ag Biologicals
#402, 15 Innovation Blvd.
Saskatoon, SK
Canada S7N 2X8.



NYU
Medical
Center

POSTDOC, Research Scientist

New York University Medical Center currently has a Postdoc, position available immediately in the laboratory of Dr. Annette Wysocki. Position to study proteases and proteolytic degradation of extracellular matrix using a clinical model of defective epithelization. Background in cell biology and biochemistry and experience with gel electrophoresis, immunofluorescence, ELISA, and tissue culture preferred. Send curriculum vitae to: Maha Singh, Human Resources Department, NYU Medical Center, 550 First Ave., New York, NY 10016. EOE, M/F.

Leading Research Into The 21st Century.

Postdoctoral Position in Toxicology

Biology and Biotechnology Research Program

The Biology and Biotechnology Research Program at the **Lawrence Livermore National Laboratory** has an expanding program to investigate the interaction of chemicals with DNA. This is part of a larger program to investigate the cancer and mutation risk posed by chemicals present in the diet and the environment.

We are currently seeking a Postdoctoral Fellow with a recent Ph.D. to work as part of an interdisciplinary team of Biologists, Biochemists and Toxicologists to develop immunochemical approaches for the detection of macromolecular adducts as biomarkers of carcinogen exposure and effect. This position requires a Ph.D. in Biochemistry, Toxicology, Pharmacology or related field. Applicant having experience in immunochemistry or immunoassay development will be preferred. Some experience with mass spectrometry is desirable. Appointments will be initially for two years with the possibility for a year extension, depending on funding and project status.

For technical information contact Kenneth Turteltaub, Ph.D., Molecular Toxicology Group, (510) 423-8152. Qualified individuals, please forward your CV to Ms. Quincy McClain, Recruiting and Employment Division, Lawrence Livermore National Laboratory, PO Box 5510, L-725, Dept. AJSCC94QM, Livermore, CA 94551. (510) 423-9758. We are proud to be an Equal Opportunity Employer. M/F/D/V.

University of California

 **Lawrence Livermore
National Laboratory**

**THE CHILDREN'S HOSPITAL
BRIGHAM & WOMEN'S HOSPITAL
BETH ISRAEL HOSPITAL
HARVARD MEDICAL SCHOOL
POSTDOCTORAL RESEARCH POSITIONS**

Pre- and postdoctoral positions available in basic and clinical research for US citizens and permanent residents. Faculty members investigate a wide range of molecular, cellular and physiological mechanisms of lung disease. Fellows will be under the direct supervision of a program faculty member who shares their interests.

Program Faculty

Harold Chapman, MD <i>Proteases/myeloid differentiation</i>	Elliot Israel, MD <i>Bioeffects of inhaled steroids</i>
Jeffrey Drazen, MD <i>Asthma, airway responses</i>	Thomas Martin, MD <i>Mast cells in asthma pathobiology</i>
Patricia Finn, MD <i>Molecular immunology/gene regulation</i>	John Reilly, MD <i>Regulation of macrophage proteases</i>
Craig Gerard, PhD, MD <i>Inflammation, cystic fibrosis</i>	Richard Schwartzstein, MD <i>Respiratory sensations</i>
Norma Gerard, PhD <i>Neuropeptide/cytokine receptors</i>	J. Woodrow Weiss, MD <i>Hemodynamics of sleep apnea</i>
Edward Ingenito, MD, PhD <i>Immunophysiology of sepsis</i>	Scott Weiss, MD <i>Respiratory epidemiology</i>
	Mary Ellen Wohl, MD <i>Physiology of lung growth</i>

Direct inquiries to:

**Deborah Zelen, Administrator
Respiratory Division
Brigham and Women's Hospital
75 Francis Street
Boston, MA 02115**

Brigham and Women's Hospital maintains a drug/alcohol free workplace.
Equal opportunity employer.

INTERDISCIPLINARY GRADUATE PROGRAMS

CELL AND MOLECULAR BIOLOGY

The Program includes a special track in the Biology of Aging.

- Gene Expression and Regulation
- The Human Genome and Gene Therapy
- Cell Cycle, Growth Control, and Cancer Biology
- Molecular Virology, Immunology and Aids
- Structural and Computational Biology
- Signal Transduction and Membrane Biology
- Lipid Metabolism and Cardiovascular Biology

DEVELOPMENTAL BIOLOGY

Students may participate in research comparing developmental mechanisms in vertebrates and invertebrates.

- Mouse Developmental Genetics
- Pattern Formation
- Nervous System Development in *Drosophila* and Vertebrates
- Human Disease Genes Affecting Development
- Homeotic Genes

The Graduate School at BAYLOR COLLEGE OF MEDICINE has created Interdisciplinary Graduate Programs in CELL AND MOLECULAR BIOLOGY and DEVELOPMENTAL BIOLOGY stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. will receive financial support for the duration of their training. For further information please contact the Graduate School at the following address:

**Baylor College of Medicine
The Graduate School
One Baylor Plaza
Houston, TX 77030**

**Phone: Cell and Molecular Biology: (713) 798-6557
Phone: Developmental Biology: (713) 798-6410**

**UNDERREPRESENTED MINORITY APPLICANTS
ARE ENCOURAGED**

**UNIVERSITY OF
COLORADO
AT BOULDER**

**Molecular, Cellular, and
Developmental Biology**

We seek tenure-track faculty working on developmental biology of multicellular eucaryotes, particularly mammals. Preference will be given to candidates at the assistant professor level. Appointments could begin as early as August 1995. Successful candidates must have demonstrated outstanding research ability and teaching skills. Send résumé, representative reprints, an outline of future research directions, and three letters of recommendation to: **New Faculty Search, MCD Biology, University of Colorado, Boulder, CO 80309-0347**. Dossiers considered upon receipt. Latest possible receipt of all application materials: 2/1/95.

*The University of Colorado is an
equal opportunity/affirmative
action employer.*



**ECOLOGICAL SUSTAINABILITY
UNIVERSITY OF MICHIGAN
SCHOOL OF NATURAL
RESOURCES AND ENVIRONMENT
DEPARTMENT OF BIOLOGY**

We invite applicants for a joint tenure-track position in the Department of Biology and the School of Natural Resources & Environment. We seek an individual whose area of scholarship is the ecological basis of the sustainable use of natural resources in the tropics. Rank is open.

Candidates must have a Ph.D. in Biology, Ecology or Natural Resources and subsequent experience, with a demonstrated research interest and expertise in the ecological sustainability of the tropics. The successful candidate will be expected to develop an externally-funded research program, teach one course in each unit per year, and contribute to the University of Michigan's international area studies program by periodically teaching or coordinating seminars related to the role of environmental issues in the affairs of tropical countries.

Candidates should submit a cover letter, statements of teaching interests, research objectives, and the relationship of their scholarly activities to international area studies, curriculum vitae, and the names of three referees to: **Search Committee, Ecological Sustainability, The International Institute, The University of Michigan, Ann Arbor, MI 48109-1220**. (Phone: 313-763-9200). Closing date: 15 February 1995 or until position is filled.

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

TWO POSITIONS AVAILABLE

Post-Doctoral Research Associates
Desert Research Institute
Biological Sciences Center
Reno, Nevada

SOIL/RHIZOSPHERE ECOLOGY

On-Year App't - Renewable up to two add'l years.

Research involves ¹⁴C labeling and tracing of plant and soil systems under laboratory growth chamber conditions. Responsibilities include designing and executing experiments on rhizosphere processes, analyzing data, preparing manuscripts and supervising laboratory staff. Requires Ph.D. in soil microbiology, plant physiology or related discipline. Experience with isotopes and root/rhizosphere preferred. Knowledge of free-living N-fixers and rhizosphere fauna desirable. Closes 1/17/95.

AQUATIC MICROBIAL ECOLOGIST

Two-Year Appointment

Conducts aquatic microbial ecology field and laboratory research as part of the Antarctic McMurdo Dry Valleys Long-Term Ecological Research (LTER) project; assists senior LTER personnel in project science and management both at DRI and the LTER field site in Antarctica. Requires Ph.D. in the biological sciences within last 3 years. Research in field studies, laboratory analysis, data processing and analysis related to aquatic microbial ecology and demonstrated experience in the use of modern ecological techniques required. A record of previous publications and successful proposal preparation highly desired. Prior to Antarctic deployment, individual must pass comprehensive medical and dental exams. Closes 1/24/95.

Salaries commensurate with qualifications. Excellent benefits package. Submit resume, letter of interest and the names, addresses and telephone numbers of three references to: **Recruitment Office, Desert Research Institute, UCCSN, PO Box 19040, Las Vegas, NV 89132-0040**.

Affirmative Action/Equal Opportunity Employer

**JUNIOR FACULTY POSITION
SECTION OF IMMUNOBIOLOGY
YALE UNIVERSITY**

The Section of Immunobiology seeks applicants for a junior faculty position. Qualified applicants in all areas of immunobiology are invited to apply. We are particularly interested in candidates who will complement but not duplicate research of the existing faculty. Research interests already represented within the Section of Immunobiology include T lymphocyte activation, differentiation and tolerance; T lymphocyte development; antigen processing and presentation; transcriptional regulation; cytokines; immunoglobulin and T-cell receptor gene rearrangement; and autoimmunity. Candidates are expected to develop an independent research program and to participate in departmental teaching. The Section of Immunobiology is committed to increasing representation of members of minority groups and women on the faculty and particularly encourages applications from such candidates. A candidate's application package must include a curriculum vitae, a summary of present and future research interests and three letters of recommendation. Completed applications should be received at the address below no later than Feb 15. This position was advertised in Spring 1994. Persons who have already applied need not re-apply, except to update their applications.

Dr. Kim Bottomly
c/o Administrator
Section of Immunobiology
Yale University School of Medicine
PO Box 208011
New Haven, CT 06520-8011

An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

Dean of
Canadian universities
and also of
French speaking
universities
in America,
l'Université Laval
supports progress
of society through
high quality
in teaching and
commitment
in research.



WE SHARE THE WORLD'S
KNOWLEDGE

RESEARCH INSTITUTE

(Molecular genetics and possible applications)

DIRECTOR

Université Laval is setting up an interdisciplinary research institute in the field of fundamental and applied molecular genetics. The Institute, which will be located in a new building equipped with the most up-to-date equipment available, will be home to approximately forty faculty members from the Faculties of Agriculture and Food Science, Forestry and Geomatics, Sciences and Engineering, and Medicine.

The aim of the University is to create an atmosphere conducive to lively and innovative exchanges between researchers in fields such as molecular and cellular structures, intracellular signals, genetic regulation, cell-molecule interactions and molecular evolution. Possible applications in agriculture, forestry and medicine of emerging disciplines such as molecular modeling, genome mapping, molecular ecology and co-evolutionary studies will also be a priority.

The founding Director of the Institute will be called upon to develop programs at the cutting edge of research and research training. The Director will have an active research program, will be expected to supervise graduate students, and will direct and coordinate the overall scientific program of the Institute in order to make it a world-class organization. The Director will also have the opportunity to contribute to the final planning stages of the Institute.

The ideal candidate will have been active in a relevant field of research for at least ten years, will have an established international reputation, will already hold or will have the potential to hold major grants, will have at least four years experience in heading a medium-sized research group, and will have well developed leadership, coordination and communication skills.

A good or excellent knowledge of French is an essential requirement. Applications, including a curriculum vitae and three letters of reference, should be sent to: Denis Gagnon, Vice-rector for Research, Université Laval, Québec, Qc, Canada, G1K 7P4.

Applications should be submitted before January 15th 1995.

*Recherches en
sciences de la vie
et de la santé*

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. In accordance to its Employment Equity program, Laval University intends to hire women on half of its vacant positions.

**FACULTY POSITION IN
DEVELOPMENTAL GENETICS**

The Department of Biology, Indiana University-Purdue University at Indianapolis (IUPUI) invites applications for a tenure-track position beginning August 1995 at the level of Assistant Professor. We seek a highly qualified individual working on genes involved in embryonic development and pattern formation, regeneration, or cell transformation. Research may be on mechanisms of tissue interaction, cell/matrix interactions, expression and mechanism of action of growth factors in growth and differentiation, or closely related areas. Postdoctoral training is essential. The successful candidate will be expected to establish an externally funded research program and demonstrate a strong commitment to undergraduate and graduate education. Laboratory space in a new research facility adjacent to the Indiana University School of Medicine, a competitive salary, and substantial start-up funds are available. The Department of Biology offers both Master's and Ph.D. degrees and has 21 full time faculty of professorial rank whose research interests include cell/molecular biology, developmental biology, immunology, membrane biochemistry and oncology. Opportunities for collaborative research with faculty in the Department of Biology, other School of Science Departments, and the School of Medicine are available and encouraged.

Applicants should send a curriculum vitae, three letters of recommendation and a statement of teaching and research interests to:

Chair, Search and Screen Committee
Department of Biology
Indiana University-Purdue
University
723 W. Michigan St.
Indianapolis, IN 46202-5132



Applications must be received by January 20, 1994.

IUPUI is an Equal Opportunity-Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.

**Department of Dermatology
Harvard Medical School**

The Department of Dermatology, HMS is currently accepting application for the following positions:

Research fellowship and/or entry level faculty positions are available to candidates interested in pursuing one, preferably two, years of directed laboratory or clinical research supported by our NIH Training Grant. Candidates must identify a mentor within the Department of Dermatology, who would sponsor their project and provide supplemental salary support up to their current PGY level. Funds are currently available for July 1, 1995. Interested candidates should send a letter of inquiry specifying research interests and C.V. We will aid interested candidates in identifying mentors for their projects. Materials must be received by January 10, 1995.

Additionally, other basic research fellowship opportunities exist within the Wellman Laboratories of Photomedicine and the MGH/Harvard Cutaneous Biology Research Center at the Massachusetts General Hospital as well as at our Dermatology Research Laboratories at the Brigham and Women's Hospital.

We are also currently accepting applications for our Residency Training Program. We offer a three year program which leads to eligibility for certification by the American Board of Dermatology. Basic dermatologic training is obtained in the ambulatory care units of the HMS affiliated hospitals. We also offer, to interested candidates, a flexible extended program which combines at least two years of the required clinical training and two years of directed laboratory or clinical research. Application deadline for this program is February 15, 1995.

We also offer fellowship programs in laser, dermatologic-surgery, and clinical trials.

Interested candidates should send a letter of inquiry and CV to Howard P. Baden, M.D., Department of Dermatology, Warren 501, Massachusetts General Hospital, 32 Fruit Street, Boston, MA 02114 (617-726-5254).

The Department of Dermatology, Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped and veterans are encouraged to apply. We are especially interested in receiving applications from underrepresented minorities.

The Department of Dermatology, Harvard Medical School is a joint multi-institutional teaching and training program with cooperative clinical and research activities at the following teaching hospitals and affiliations; Beth Israel Hospital Brigham & Women's Hospital, Cambridge Hospital, Children's Hospital Medical Ctr., Dana Farber Cancer Institute, Harvard Community Health Plan, Lahey Clinic Massachusetts General Hospital, New England Deaconess Hospital, and Brockton/W. Roxbury VA Medical Ctrs. The Department is the recipient of an NIH Training Grant which provides salary support for candidates interested in a career in academic dermatology.

**U.S. DEPARTMENT OF ENERGY
ASSOCIATE DIRECTOR OF ENERGY RESEARCH FOR
HEALTH AND ENVIRONMENTAL RESEARCH
OFFICE OF ENERGY RESEARCH
\$96,830 to \$120,594 per annum**

The U.S. Department of Energy is seeking applicants for the Senior Executive Service position of Associate Director of Energy Research for Health and Environmental Research. The incumbent is the principal Department of Energy official responsible for planning, implementing, and directing the Biological and Environmental Research Program, including research carried out by universities, national laboratories, and private institutions (involving over 700 grants, contracts, and interagency agreements, with a budget in excess of \$400 million). Three notable programs in this office are the Department's component of the Human Genome Program, the Department's Global Climate Change Program, and the Department's lead in structural biology. An M.D. or a Ph.D. (or equivalent level of training and experience) in molecular and cellular biology, computational biology, structural biology, instrumentation, global change, atmospheric science, ecology, marine biology, or biomedical technology and significant experience as an administrator in government or the private sector are necessary.

Exceptional difficulty in recruiting highly qualified candidates may be the basis for paying a recruitment or relocation bonus (up to 25% of base pay), requesting approval of a dual compensation waiver for civil and uniformed service retirees, or utilization of critical pay authority (annual salary may be set up to \$133,600 per annum, the rate payable for Level II of the executive pay schedule).

Applications must be postmarked no later than January 16, 1995. Direct inquiries to: Executive Resources Division, HR-325.1, 4E-060 FORS, DOE, Washington, DC 20585. The Department of Energy is an Equal Opportunity Employer. U.S. citizenship is required.

**State University of New York at Buffalo
Vice Provost for Graduate Education and
Dean of the Graduate School**

Applications and nominations are sought for the position of Vice Provost for Graduate Education/Dean of the Graduate School at the State University of New York at Buffalo, the only public member of the Association of American Universities (AAU) in New York and New England. The University at Buffalo is the largest and most comprehensive institution in the SUNY system with an enrollment of over 25,000 students. There is an institutional commitment to strengthen and extend the function of the Graduate School and we are seeking a dynamic individual of the highest calibre to provide leadership for this effort.

The Vice Provost/Dean of the Graduate School serves as the principal leader and advocate for excellence in graduate education. As member of the Provost's Council of Deans, the incumbent represents the interests of graduate education in the planning, goal-setting, and policy development of the University. As a primary catalytic agent, the Vice Provost/Dean provides institutional leadership in the development, facilitation and coordination of multidisciplinary and interdisciplinary programs of instruction, training and scholarship. He/she also works to advance the research and creative activities of the faculty and to strengthen the interrelationship of those efforts with graduate education and training.

As principal academic officer of the Graduate School, the Dean is responsible for the development and administration of an organization coordinating more than 200 advanced degree programs, and enrolling more than 8,500 graduate students. In cooperation with the Schools and Faculties of the University, the Dean is responsible for the maintenance of academic standards; the review and modification of existing academic programs; the development of new graduate programs, especially those of an interdisciplinary nature; the recruitment, support, education, and welfare of graduate students; and the articulation of future trends in graduate education.

Qualifications: The successful candidate must possess an earned doctorate; a distinguished record of academic and scholarly achievement; successful administrative experience related to the position; a distinctive record of graduate instruction and thesis guidance; demonstrated leadership skills; and the qualifications for an academic appointment with tenure at the rank of professor. **Applications and Nominations:** A letter of application, current curriculum vitae, and the name, addresses and telephone numbers of five references are requested.

Review of applications will begin on January 15 and continue until the position is filled. Applicants/nominations should be sent as soon as possible to:

**Graduate Dean Search Committee
c/o Dr. Joseph J. Tufariello, Dean
Faculty of Natural Sciences and Mathematics
411 Capen Hall
State University of New York at Buffalo
Buffalo, New York 14260**

The State University of New York at Buffalo is an affirmative action, equal opportunity employer. Applications from women and minorities are encouraged.

**Scientists
Mechanical Engineers
Software Engineers
Optical Engineers
Electrical Engineers**

Lynx Therapeutics, a leading developer of Genetic Medicines*, is expanding its efforts to also develop a pioneering proprietary technology that will enable the identification of genes functionally relevant to disease states in a rapid, totally automated fashion. Called Simultaneous Signature Sequencing (SSS), the technology uses a novel sequencing chemistry and novel imaging techniques to determine simultaneously all identifying sequences of the cDNA fragments present in a sample. The expanded effort has created several new openings.

SCIENTISTS

Ph.D. molecular biologist with 2-5 years of post-graduate experience. Extensive expertise with cDNA library generation, differential screening and gene discovery required. The implementation and/or utilization of automated analytical instrumentation is desired.

BS chemist with DNA synthesis experience, familiar with both synthesis and purification of dye-labeled oligonucleotides.

ENGINEERS

Senior mechanical engineer (BS in ME) with at least 4 years of analytical instrumentation experience. Experience in the use of CAD systems essential, as well as familiarity with ISO 9000 certification. Experience in leading a project team from the feasibility stage through production required.

Senior software engineer with demonstrated project leadership skills. Requirements include Macintosh toolbox/Windows SDK and C++. Experience with frameworks a plus (MacApp, MFC). BS or MS in CS or CE and at least 5 years of experience.

Senior optical engineer with experience in CCD imaging systems and 3 years or more of industrial experience. BS or MS in EE, SW, or ME required.

Senior electrical engineer with experience in CAD design and firmware implementation. 4 years industrial experience in the field of analytical instrumentation preferred. Familiarity with the ISO certification process essential.

*See Cohen, Jack S. and Hogan, Michael E., "The New Genetic Medicines", *Scientific American*, Vol. 271, Number 6, December 1994, p. 76.

We offer an excellent compensation and benefits package. Please send your resume to: **Lynx Therapeutics, Inc., Dept. SJ003, 3832 Bay Center Place, Hayward, CA 94545. EOE.**

LYNX
THERAPEUTICS, INC.

RESEARCH POSITIONS VETERINARY INFECTIOUS DISEASE ORGANIZATION

The Veterinary Infectious Disease Organization has immediate opening for scientists and postdoctoral fellows/research associate to strengthen its research and development in viral and bacterial pathogenesis and vaccine development.

Immunology

A Senior Scientist/Coordinator position in Immunology is available for individuals with at least five years of experience post Ph.D. The Immunology Group is involved in dissecting events in pathogenesis, identification of putative antigens of viral and bacterial pathogens, vaccine formulations, and specifically investigating mucosal immunity and delivery system.

Polynucleotide immunization:

A Post Doctoral Fellow is required for investigating DNA delivery as a means of immunization in large animals. Experience in molecular biology is essential. Additional expertise in immunology would be an asset.

Bacteriology:

Post Doctoral positions are available in the areas of bacterial pathogenesis and vaccine development. The projects include *Haemophilus somnus* iron metabolism, *E. coli* infection in poultry, *Streptococcus suis* infection in swine and streptococcal mastitis. Expertise in molecular biology is essential, and experience in molecular genetics and microbial pathogenesis would be an asset.

Adenovirus Vectors:

A Post Doctoral fellow is required to investigate bovine adenovirus as a vector for delivery of vaccines to mucosal surfaces. Experience in molecular biology is essential. Experience in mucosal immunity would be an asset.

The Veterinary Infectious Disease Organization provides a stimulating atmosphere with opportunities and a requirement to collaborate with other scientists in the field bacteriology, virology, immunology and molecular biology. Successful applicants will be expected to operate as part of a research team and should have excellent communication and interpersonal skills.

For consideration please forward your curriculum vitae and the names of three references to:

Lorne A. Babiuk
Director
Veterinary Infectious Disease Organization
124 Veterinary Road
SASKATOON, SK
S7N 0W0
Telephone: 306/966-7465

Neuroscientist

The University of Calgary Neuroscience Research Group invites applications for a full-time academic Neuroscientist at the Assistant Professor level or higher. This position offers an excellent opportunity to develop an independent research program and collaborative interactions within a multidisciplinary research environment. Duties include teaching and graduate student supervision. Qualifications include a PhD and/or MD (or equivalent), at least two years' postdoctoral experience, and research interests in molecular, cellular and/or behavioural/systems neuroscience. The highest criteria will be excellence in research.

The selected candidate must compete successfully for salary and establishment support from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada, and will have 75% of time protected for research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Please submit a curriculum vitae, a statement of research interests, two reprints of recent publications, and the names, addresses, telephone and FAX number of three referees by January 31, 1995, to:

Dr. B.A. MacVicar, Chair
Neuroscience Research Group
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1



DISCOVER SUGEN:

A LEADER IN SIGNAL TRANSDUCTION RESEARCH

SUGEN, Inc. is a dynamic biopharmaceutical company focused on the discovery and development of drugs for the treatment of cancer and diabetes. We are currently staffing Science professionals at various levels to contribute to our innovative research programs at our San Francisco Bay Area offices.

FORMULATIONS

Senior-level Ph.D.: This key Ph.D. will direct pre-formulations, formulations of parenteral and oral dosage forms for clinical development, and coordination of external manufacturing contracts.

IN VITRO PHARMACOLOGY

Senior-level Ph.D.: This senior-level Ph.D. will assume responsibility for management of the *In Vitro* Pharmacology laboratory and for project management for products in development. The position will demand broad experience in project management, tumor cell biology, and staff supervision. Experience in diabetes models a plus.

PHARMACEUTICAL DEVELOPMENT

Scientist: This Scientist will be involved in analytical work for pharmacologically active compounds in biological fluids. A Ph.D. or M.S. in Pharmacology or Pharmaceutical Sciences is required along with 2-3 years' related background, including significant HPLC experience.

IN VIVO PHARMACOLOGY

Scientist: As a Scientist, you must possess a Ph.D. or M.S. in Pharmacology, Tumor Biology, Immunology or related field and 2-3 years' postdoctoral experience with animal models in human disease and hands-on development of novel rodent models. This position involves analytical work for pharmacologically active compounds in biological fluids.

CELL BIOLOGY

Associate Scientist: An Associate Scientist with Ph.D. in Cell Biology, Molecular Biology or equivalent is required, preferring individuals experienced in vector construction, cell line engineering, signal transduction or receptor function.

Research Associate: We also seek a Research Associate with a B.S. or M.S. in Biological Sciences and strong tissue culture experience to perform tissue culture inventory and cellular assays.

MEDICINAL CHEMISTRY

Chemists: We are seeking Ph.D. Chemists with a broad background in organic synthesis, including proven problem solving skills in multi-step process, and familiarity with modern drug design disciplines (enzyme inhibitors, combinatorial chemistry, and structure-based lead searching). Opportunities also are available for B.S.- or M.S.-level Chemists with experience in multi-step synthesis of small organic compounds and familiarity with modern purification techniques and spectroscopic methods.

To reply to one of the positions above, please send resume, noting position of interest, to: SUGEN, Inc., Attn: Dorian Rinella, 515 Galveston Drive, Redwood City, CA 94063, or FAX to (415) 369-0535. Competitive salary and benefits, including stock options, support these positions. Equal Opportunity Employer.

SUGEN, Inc.

The Scripps Research Institute

*Ph.D. Programs in Chemistry and
Macromolecular &
Cellular Structure & Chemistry*

The Scripps Research Institute will admit highly qualified students in the fall of 1995 to two Ph.D. programs: one integrating cell and molecular biology with structure and chemistry, and the other in chemistry.



Graduate studies at Scripps provide an exceptional training opportunity in a uniquely multidisciplinary environment with an emphasis on individualized training for each student.

Candidates must have a bachelor's degree and a strong background in biology and/or chemistry. Qualified applicants will be invited to visit the Institute. Financial support will be provided to all accepted students.

Since its establishment in 1961, the Institute has gained international recognition for its basic re-search in molecular biology, immunology, chemistry, neurosciences, cell biology, and plant biology.

Individuals interested in applying to either program should contact the Office of Graduate Studies for a brochure and application: **The Scripps Research Institute, Office of Graduate Studies, IMM 21, 10666 North Torrey Pines Road, La Jolla, CA 92037. Tel. (619)554-8469. Fax. (619)554-6602.** The graduate programs are accredited by the Western Association of Schools and Colleges. TSRI is an equal opportunity institution.

The University of
ILLINOIS
at Urbana-Champaign

Molecular Biology of Neural Development and Plasticity

A major grant from the Lucille P. Markey Charitable Trust is providing funding for a continuing search for several faculty positions in molecular neurobiology, with an emphasis upon molecular mechanisms of neural development and plasticity.

We plan to fill one or more full time tenure track faculty positions (rank open) for Fall, 1995 and additional positions in the next several years. Candidates will be appointed primarily in the Departments of Biochemistry Cell and Structural Biology and Physiology although appointments may be made in other departments. Substantial funds are available for laboratory start-up and research. The University has a strong interdisciplinary Neuroscience Program with strengths in neural development and plasticity and growing strength in cellular and molecular neuroscience. In addition to the interdisciplinary resources of the Beckman Institute, the University of Illinois is home to the NSF-funded National Center for Supercomputing Applications, and a Biotechnology Center that provides a number of subsidized services including production of oligonucleotides, peptides and monoclonal antibodies, molecular graphics, fluorescence activated sorting, protein and DNA sequencing and transgenic animal facilities.

Salary is commensurate with experience and qualifications. Minorities and women are particularly encouraged to apply. Applications (vita, 1-2 representative reprints, and a statement of research interests) and three letters of recommendation should be sent to:

Dr. James A. Weyhenmeyer
Chair, Molecular Neuroscience Search Committee
c/o: University of Illinois
506 Morrill Hall
505 South Goodwin
Urbana, IL 61801 Tel (217) 244-9294

This is an ongoing search and applications received after the deadline may receive consideration. However, to ensure full consideration for FALL 1995 hiring, applications should be received by January 31, 1995.

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

Harvard Medical School

**Molecular Medicine Unit,
Beth Israel Hospital**

The Molecular Medicine Unit of Beth Israel Hospital is seeking applications for the position of Assistant Professor. The successful candidate will hold the PhD and/or MD degrees, and have completed a minimum of two years of postdoctoral training in molecular cell biology, physiology, or genetics. Applicants will be expected to establish a funded independent research program in membrane transporters or channels in the broad area of cardiovascular biology. Generous start-up funds and some ongoing support will be provided. The Molecular Medicine Unit faculty currently investigate membrane transport and ion homeostasis, tumor suppression and signal transduction, and induction pathways in early development. All have joint or primary appointments with basic science departments at Harvard Medical School. Candidates should send CVs and names of three references to:

**Robert D. Rosenberg, MD-PhD
Faculty Search Committee
Molecular Medicine Unit
Beth Israel Hospital RW663
330 Brookline Ave.
Boston, MA 02215**

*The Beth Israel Hospital is an
Equal Opportunity Employer.*

The Cleveland Clinic Foundation Manager of the Transgenic and Knockout Mouse Service

The Cleveland Clinic Foundation Research Institute is looking for someone interested in a long term position managing and developing our Transgenic and Knockout Mouse Core Service. The service supports an expanding multi-disciplined Research Institute, and participates collaboratively in a wide range of research programs.

Qualified candidates will have an M.S./Ph.D., and hands-on experience with microinjection techniques and generating transgenic/knockout mice. Experience in cell culture, particularly embryonic stem cell culture, and/or molecular biology will be a definite advantage. The position will involve all aspects of managing the service, supervising microinjection technicians and animal care personnel, planning and scheduling, and interacting with and advising investigators using the service.

The Transgenic and Knockout Mouse Core Service is expanding to meet an increasing demand and the post offers an excellent career opportunity for an individual with first class technical and organizational experience. Candidates should send CV, name and fax number of 3 references to Dr. Derek I. Duke, Director of Scientific Support Services, Cleveland Clinic Foundation Research Institute Administration/NC11, 9500 Euclid Ave., Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS

HYBRITECH Incorporated, a leader in the development of diagnostics products utilizing monoclonal antibody technology, has challenging opportunities for key scientific talent to join our R&D division.

NUCLEIC ACID CHEMIST

This individual will work with our multidisciplinary research team developing DNA/RNA probe-based diagnostics. Responsibilities include the synthesis and purification of novel non-nucleotide linkers and nucleic acid/enzyme conjugates. The ideal candidate will have a Ph.D. in Chemistry and 1-3 years' hands-on experience in nucleic acid chemistry and protein purification. Experience with HPLC, NMR and Mass Spectrometry is essential. Job Code: MD/NAC/SM/12-9-94

MOLECULAR BIOLOGIST

This scientist will use molecular/cell biology techniques in a team setting designed to discover new diagnostic markers and produce recombinant proteins for use in calibrators and immunogens. Requirements include a Ph.D. in molecular/cell biology or related discipline, a minimum 2+ years post-doctoral training in molecular biology of oncogenes and tumor suppressor genes, along with a strong background in recombinant DNA technology, tissue culture techniques and heterologous expression systems. Job Code: MD/MB/SM/12-9-94

HYBRITECH offers a stimulating work environment and competitive salaries and benefits. Please indicate job code and forward resume to: **HYBRITECH Incorporated, Human Resources, P.O. Box 269006, San Diego, CA 92196-9006.** We are committed and value diversity in our workforce/EOE.



Research Associates Postdoctoral Fellows

The Skin Biology Research Center of Johnson & Johnson Company seeks candidates to join a group of scientists investigating the basic mechanisms underlying the structural and molecular biology of skin, scarring and hair growth. Scientists specifically interested in the biology of growth and development at a molecular level are encouraged to apply. Research Associates are required to have a BS/MS and at least 2 years of bench experience with molecular biology, nucleic acids, proteins, and tissue culture techniques.

These positions provide liberal research support, excellent library facilities, and a good benefits package. Although outside grant support is not required, publication of experimental results is strongly encouraged.

Ours is a smoke free workplace ideally located in central New Jersey, midway between New York City and Philadelphia. To apply, send your resume suitable for scanning into our state-of-the-art database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 146, Johnson & Johnson Recruiting, Employment Management Center, P.O. Box 16597, New Brunswick, NJ 08906-6597. An equal opportunity employer supporting diversity in the work place.



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

Expanding Minds

Improving Bodies

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

Molecular Biologist — You will develop methods and conduct analysis to support ongoing in-vitro propagation and a new gene therapy program involving the hepatitis C virus. The successful candidate will possess a PhD with 5+ years of experience and proven skills in virology and molecular genetics, especially RNA analysis, PCR, gene cloning and expression, transfection-infection, cell culture (preferentially with experience with infectious diseases), characterization and isolation of complex molecules. The ability to communicate effectively and interact with internal staff and outside collaboration is also required.

Chiron offers competitive compensation, a comprehensive benefit package, paid vacation and unique environment enhancing professional growth and change. If you'd like more information, send your resume indicating Box #94-JH, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.



CHIRON

WHERE GREAT CAREERS COME TOGETHER

Principal Research Fellow Dairy Research - Tasmania Australia

Tasmania is the island State of Australia situated between latitudes 41 and 43 south of the mainland. Its cities offer all the benefits of big city life including culture, education, entertainment and sport in a peaceful, moderate and clean environment. Alternatively, life in a rural community is never far from a city centre.

This new Fellowship offers an opportunity to establish a worldwide reputation in pasture based Dairy Research. Supported by both the University of Tasmania and the Department of Primary Industry and Fisheries with funding assistance provided by the Dairy Research and Development Corporation, the position's principal responsibilities will include:

- the development of collaborative relationships with all levels of the dairy industry;
- the determination of research strategies and priorities;
- initiating and providing leadership in dairy research; and
- the development and implementation of the Tasmanian Dairy Research Strategy.

The successful candidate must have:

- an outstanding record of research and/or professional achievement;
- a strong commitment to active research training;

- team leadership skills;
- the expertise to develop research policy; and
- the personality to promote research to the wider dairy community.

This is a rare opportunity to establish a Research Strategy for the dairy industry in a State committed to the industry's long term development and growth. This appointment is for an initial term of five years. The position will be located at the University's new centre in the City of Burnie near the Elliot Research Station on Tasmania's North West Coast. Accordingly, an excellent salary package will be offered to attract an outstanding candidate.

**CLOSING DATE FOR APPLICATIONS
JANUARY 6TH 1995**

For further details you are encouraged to telephone David Reid in Melbourne on (61 3) 576 0955 (day) or (61 3) 576 0618 (particularly between 8-11 on Sunday morning Australian Eastern Summer Time), or write/fax, giving full career details IN **STRICTEST CONFIDENCE** to: David Reid, Agricultural Appointments, PO Box 220 Armadale, Victoria 3143 Australia Fax (61 3) 576 0395

**AGRICULTURAL
APPOINTMENTS**
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The University of Sydney AUSTRALIA

HEAD, AUSTRALIAN NATIONAL GENOMIC INFORMATION SERVICE (ANGIS)

The Australian Genomic Information Centre (AGIC)

Reference No: A44/14

The Centre, located at the University of Sydney, provides the Australian National Genomic Information Service (ANGIS), the National on-line database and analysis facility for support of molecular biology, biotechnology and genomic research. The goal of the facility is the development and maintenance of computer tools, information systems and human interfaces for the collection, storage and distribution of the immense amounts of genetic sequence and map data that is being generated. The implementation is expected to evolve to meet new needs as programs develop and expand. ANGIS currently comprises a team of 6 individuals and operates UNIX based RISC servers and work stations.

The Head is directly responsible to the Board through the Executive Director, currently Professor P Reeves. Primary duties include the overall management and administration of the Service, advising the Board on the overall goals of the Service and taking the ultimate responsibility for their implementation. Responsibilities also include negotiating with organisations both within Australia and internationally with the aim of forming useful links and initiatives.

ANGIS offers a national service of international standing and the appointee will have appropriate knowledge of molecular biology and computing with a well documented track record in both as well as in the management skills required for running a networked computer service on a national level.

Extensive experience on the use of the UNIX operating system is required and a thorough knowledge of molecular biological databases and software is highly desirable.

The position is available for 5 years, with the possibility of renewal for up to a further 5 years, subject to need, funding and the agreement of the parties.

Enquiries to: Professor P R Reeves on (612) 315 2536, fax: (612) 351 4571 or email reeves@angis.su.oz.au.

Salary: A remuneration package of up to A\$95,000 will be offered.

Applications, quoting Reference No, including curriculum vitae and the names, addresses and phone nos of two referees to The Personnel Officer, (Group A), Carslaw Building, (F07), The University of Sydney, NSW, Australia 2006 by 20 January 1994.

Equal employment opportunity and no smoking in the workplace are University policies. The University reserves the right not to proceed with any appointment for financial or other reasons.



Mogam
Biotechnology
Research
Institute
KOREA

Senior Research Scientist Positions

Are available immediately for Korean Scientists with a few years of postdoctoral experience in the fields of Molecular Cell Biology (Cell adhesion molecules), Cytokine and growth factor Research, Molecular and Cellular Immunology or Aging Research (Alzheimer's disease).

It is expected that applicants will be able to work independently and be able to lead a research team.

The salary will be in the range of \$30,000-\$40,000 per annum depending on age and experience.

In addition, postdoctoral positions are available immediately to study Molecular Biology, Immunology, Virology and Signal transduction. The salary will be in the range of \$25,000-\$30,000 per annum.

MOGAM Biotechnology Research Institute is the first private foundation approved by the Korean Ministry of Science and Technology in 1984. The institute is located in the suburbs of Seoul and has excellent facilities for modern research. As a leader in the research and development in the biotechnology field, MOGAM Biotechnology Research Institute is principally engaged in research on viral vaccines, genetically engineered human pharmaceuticals and signal transduction.

Please send applications including a curriculum vitae, copies of publications and two letters of reference, to: MOGAM Biotechnology Research Institute, 341 Pojungri, Koosungmyon, Yonginkun, Kyonggido, 449-910, Korea or Seocho P.O. Box 4, Korea Green Cross Corporation, Seoul, Korea.



THE UNIVERSITY OF GRONINGEN THE NETHERLANDS

invites applicants for the position of

Professor of Polymer Synthesis

(vacancy number: 941201)

in the Laboratory of Polymer Chemistry.

We are seeking an outstanding individual who will establish an innovative research program in the synthesis, catalysis, polymerization mechanisms and characterization techniques of new polymer materials.

The position is part of the Polymer Chemistry Laboratory where research groups are actively involved in the synthesis, characterization and theory of special polymer materials for electronic, photonic, biomedical and mechanical applications. The Polymer Chemistry Laboratory is part of the Materials Science Center with expertise and modern facilities for state of the art characterization and properties research.

The successful candidate should be internationally recognized and have a strong publication record and proven ability to attract external financial support.

He/She should be able to initiate novel approaches in fundamental and applied research and have experience in teaching undergraduate and advanced graduate courses in the polymer synthesis and polymer characterization.

The gross salary depends on qualifications and ranges from Dfl. 7.713,- to Dfl. 13.722,- per month.

Applications with curriculum vitae, list of publications, photocopies of relevante certificates, outline of research interest, and names of three persons from whom references can be obtained, should be sent within one month to the University of Groningen, Personnel Department, P.O. Box 72, 9700 AB Groningen, the Netherlands, with reference to vacancy number 941201.

Further information can be obtained from the chairman of the Search Committee, Prof. Dr. G. Hadzioannou, Polymer Chemistry Department, phone (+31 50 634510 / 634300 / Internet HADZII@CHEM.RUG.NL.

Those who wish to nominate a possible candidate are also invited to respond.

University of Cambridge

Professorship of Immunology

Applications are invited for the above Chair to be established from 1 January 1995.

Pensionable stipend £37,968.

Further information from the Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge CB2 1TT. Applications (10 copies) with names of two referees by 30 January 1995.

*The University follows an
equal opportunities policy*

AGSO



The Australian Geological Survey Organisation (AGSO) is the premier geoscience mapping and information service organisation of Australia. Its mission is to build a vigorous client-driven national geoscientific mapping effort to encourage economically and environmentally sustainable management of Australia's minerals, energy, soil and water resources.

AGSO is seeking to fill the position of Executive Director.

AGSO is located in Canberra and operates within the Commonwealth's Department of Primary Industries and Energy. AGSO is responsible for geoscience research and survey programs relating to petroleum and mineral resource potential, geological hazards, groundwater, land degradation and environmental geoscience. Strategic alliances and partnership arrangements exist with other research bodies, government and industry both in Australia and overseas.

AGSO has a staff of around 520, the majority in scientific and associated technical disciplines. It currently has a budget of A\$55 million from government and is required to earn an additional 30 per cent of its funding from external sources. To conduct its programs AGSO has a major investment in geological and geophysical field capabilities including a research vessel and aircraft, laboratories, workshops, information technology and other equipment.

EXECUTIVE DIRECTOR

Senior Executive Band 3

Remuneration Package up to A\$140,000

(Position No. 11636)

The Executive Director is responsible for the management of the Australian Geological Survey Organisation, and as a member of the Department's Executive Board will also contribute to the overall strategic management of the Department. The Executive Director is the Government's chief geoscience adviser and is expected to play a leading role in defining the future direction of Australian geoscience. We require a person with outstanding leadership, management and policy development skills and abilities to lead Australia's principal geoscience organisation. Desirably they will have an appropriate scientific background and standing in the geoscience community.

A remuneration package of up to A\$140,000 is available and includes access to a fully maintained private-plated car and employer sponsored superannuation. The salary component of the package is A\$103,935.

Conditions of service include four weeks annual leave plus leave bonus, cumulative sick benefits and long service leave after ten years completed service.

For further information about this position contact Mr Harvey Jacka, Executive Director on telephone (06) 249 9600. When direct dialing Australia from overseas the Australian Country Code is 61, Area Code 6, Telephone Number 249 9600.

To be eligible for appointment to the Australian Public Service, you must be an Australian citizen. Applicants who are not Australian citizens must provide proof of their eligibility to work in Australia. If you do not wish to become an Australian citizen, you may be employed on a fixed term basis of up to 5 years. Uplift and removal costs will be reviewed on application. Specific details can be provided on request.

It is in the interest of applicants to obtain the selection criteria for this position and frame applications accordingly.

Please send applications quoting **Ref No: 11636** by 6 January 1995 to:

**The Personnel Manager
Australian Geological Survey Organisation
GPO Box 378, CANBERRA ACT 2601, AUSTRALIA**

Please phone Canberra, Australia: 249 9767 for selection information about these positions.

Facsimile Canberra, Australia: 249 9975.

AGSO IS AN EQUAL OPPORTUNITY EMPLOYER



Leicester University

with INSTITUT PASTEUR

Department of Biochemistry

POSTDOCTORAL RESEARCH POSITIONS

Early Interactions at Pre-mRNA Splice Sites

Two positions are available for collaborative research funded by the European Commission. The post at the University of Leicester, UK, will be with Dr I Eperon and will involve cross-linking and affinity purification to investigate the selection of alternative splice sites in mammalian pre-mRNA. The research at the Institut Pasteur, Paris, will be with Dr P Legrain and will use genetic assays (including *in vivo* assays of protein-protein interactions) to study early steps in splicing and nuclear pre-mRNA processing in yeast.

Both positions are available for up to two years. A highly qualified candidate could be appointed for two years to work in both laboratories. The salary in Leicester would be on the R&A IA, II or III scales (£13,941 - £30,533 pa) depending on qualifications and experience, and in Paris ca 1750 ECU (11,400 FF) pcm net. Applicants should be nationals of the EU or states participating in the Human Capital and Mobility Programme, but may not be nationals of the country in which they would work.

Applications (including a CV and the names of two referees) should be sent to Dr P Legrain, Département de Biologie, Moléculaire, Institut Pasteur, 25-28 Rue du Dr Roux, Paris 75724 Cedex 15, France (tel (33) 1 4061 3205; fax (33) 1 4061 3060), or Dr I Eperon, Department of Biochemistry, University of Leicester, Leicester LE1 7RH, UK (tel (44) 116 252 3482; fax (44) 116 252 3369), from either of whom further information can be obtained.

Towards equal opportunities

MEDIZINISCHE HOCHSCHULE HANNOVER

In the Centre of Physiology at the Medical School in Hannover/Germany the post of

Professor (C3) of Sports and Exercise Physiology

is vacant and the Faculty wishes to encourage international applications. This position roughly corresponds to that of an Associate Professor with tenure, plus assured laboratory and office space research money and a certain number of postdoc positions provided by the Medical School. He/she will be Director of a physiological unit and as such participate in teaching Physiology to medical and dental students. He/she will in addition be formal Head of an associated unit occupied with routine as well as research duties in Sports Medicine, mainly dealing with athletes. Cooperation with clinical and non-clinical institutions within the Medical School and with the Department of Sports Sciences at Hannover University is desirable.

International reputation in a field of Physiology that bears relevance to Sports Physiology, such as Cardiac, Circulatory, Respiratory of Muscle Physiology etc., will be a decisive criterion. Teaching experience in the field of Medical Physiology is expected.

The following areas of physiological research are at present represented in the Centre of Physiology: Molecular Muscle Physiology, Cellular Respiratory Physiology, Neurophysiology of the Peripheral Motor System. In the near future there will be a group engaged in biophysical research.

"Habilitation" or an equivalent scientific qualification and teaching experience are required for this post; also a willingness to learn the German language is expected.

The Medical School is an Equal Opportunity Employer and is aiming to increase the proportion of women members of faculty. Priority is given to physically handicapped persons of equal qualification.

Applications with C.V. detailing research (including future plans) and teaching experience, a list of publications and selected reprints should be sent to:

The Rector,
Medizinische Hochschule Hannover
30623 Hannover, Germany, by January 31, 1995.



WORLD HEALTH ORGANIZATION (WHO)/
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC)

IARC has an opening for a
SCIENTIFIC OFFICER (RESEARCH)
in Manila, Republic of the Philippines

to be responsible for coordination of fieldwork for an intervention study on the preventability of breast cancer, in Manila, Republic of the Philippines.

The project is a large-scale (340,000 women) randomized trial of the efficacy of physical examination of the breasts by health care workers in promoting early detection of breast cancer, and in reducing mortality from it. The study will be carried out in collaboration with the Department of Health (DOH) of the Philippines, as part of their national cancer control programme.

Candidates should have an advanced qualification in epidemiology, or related discipline, and 3-5 years postgraduate experience. Experience of fieldwork in developing countries will be considered an advantage, and knowledge of the local language (Tagalog) would be useful.

The successful applicant will work with staff of the DOH and the University of the Philippines, Manila to ensure optimal implementation of the protocol, and to provide coordination with the study centre at IARC, Lyon, France.

She/he will be based at the WHO Office in Manila, in close proximity to the study base at DOH, but will be expected to spend 3-4 weeks per year, on average, at IARC in Lyon.

The current annual base salary is US\$36,781 (US\$39,383 with dependants), plus a post adjustment component relevant to Manila, currently US\$9,784 (US\$10,476 with dependants). Salaries are tax free. The initial contract will be for 2 years, the first being probationary, and is renewable for up to a total of 5 years.

The position is open to all nationalities, and is particularly suited to those with an experience or interest in women's health.

Those interested should write,
enclosing a curriculum vitae, to:

Personnel Office
IARC
150, cours Albert Thomas
F-69372 Lyon cedex 08
France

For further information, please
contact:

Dr. D. M. Parkin
or Dr. Paola Pisanì
IARC
Tel: 33-72.73.84.85
Fax: 33-72.73.85.75

APPLICATIONS FROM WOMEN ARE ENCOURAGED

Deutsches Rheuma-Forschungszentrum Berlin

Applications are invited for the
position of

Scientific Director

to succeed Prof. Avron Mitchison at the end of 1995. The post offers unique scope for development of a substantial research programme in rheumatic diseases including a personal research group. At present about 35 core funded staff plus 20 grant-financed positions are deployed on research initiatives in immunology, molecular biology, biochemistry and epidemiology. Very close clinical collaborations with the Charité Hospital of the Humboldt University and the Free University have been established. The research centre will relocate in 1998 from its interim accommodation to a purpose built building on the Charité campus offering 2200m² for a staff of about 110. The building will also house the Max-Planck-Institute for the Biology of Infectious Diseases.

Applications supported by a full curriculum vitae should be sent to Prof. J.R. Kalden, Chairman, Foundation Board, DRFZ, Am Kleinen Wannsee 5, D-14109 Berlin, Germany not later than January 20, 1995.

KUWAIT UNIVERSITY FACULTY OF SCIENCE

The Faculty of Science at Kuwait University seeks qualified candidates in Botany and Microbiology (Applied Microbiology - with experience in environmental aspects; Molecular Biology - with research experience in micro-organisms; Micro Genetics - molecular genetics of Eukaryotic micro-organisms; Plant Pathology - fungal/plant diseases and host parasite relationships; Plant fine structure and Anatomy; Phycology; Plant Ecology - vegetation ecology; Plant Physiology - growth hormones and regulators) with a strong commitment to high quality teaching and research for appointment at the positions of Associate Professor and Assistant Professor.

Required Qualifications: Ph.D. or its equivalent in the required area; research experience and publications; University teaching experience; excellent knowledge of English.

Kuwait University offers: TAX FREE Salary (approximate ranges: Associate Professor - KD 875 - 1035 and Assistant Professor - KD 680 - 840) depending on years of experience and number of accompanying dependents (spouses and children under 18). (1 KD equivalent to approximately US\$3.50). Fringe benefits include furnished air-conditioned accommodations, annual air tickets, free National Health Medical Care, paid mid-term holidays and summer vacations and gratuity. New appointees can apply for financial support for approved research projects. Excellent academic environment.

Contracts effective from September 1995 for a two year initial period.

Application should be accompanied by a complete C.V. including mailing address, phone, fax and e-mail; academic qualifications, teaching, research and professional/work experience, and list of publications in professional journals; names and addresses of three persons well-acquainted with the academic and professional work of the applicant. An English translation of all documents in other languages should be enclosed. For appointment to the position of Assistant Professor, a very good performance in the B.Sc. is required (minimum GPA 3 points of 4). Please send copies of all transcripts.

Applications may be obtained from:

Kuwait University Office
3500 International Dr. NW
Washington, DC 20008
Phone (202)363-8055

Applications should be sent by express mail/courier service to:

The Dean, Faculty of Science
Kuwait University
PO Box 5969
Safat 13060
Kuwait

For inquiries use: Fax (965) 4836127; E-Mail SINNO@KUC01.EDU.KW.

Closing date for receipt of applications: January 31, 1995.

CHIEF EXECUTIVE



AUSTRALIA

CSIRO is one of the largest and most diverse national research institutes in the world, with 7,000 staff and total income of about \$A700 million. It is committed to developing technologies that will enhance the Australian economy, environment and quality of life. Focus is on excellent strategic and applied research, and on establishing sound business relationships with its commercial, government and other partners.

The Chief Executive who will be a member of the Board, must have outstanding leadership and business management skills and the vision to enhance CSIRO's continuing organisational and business development. Experience in coupling business management at a senior level with the management of science/engineering is desirable. A sound understanding of the skills required to manage strategic and applied research and to transfer resultant technologies into the diverse business sectors in Australia is essential.

The importance of this position will be reflected in a competitive remuneration package.

Applications in strict confidence should be directed to:

RUSSELL REYNOLDS ASSOCIATES, INC.
PO Box 447 Market Street
Melbourne VIC 3001 Australia

CSIRO is an equal opportunity employer

NFR Naturvetenskapliga forskningsrådet
Swedish Natural Science Research Council

invites applications for

RESEARCH POSITIONS in

Experimental study of physics and chemistry of Earth and planetary interiors
NMR methodology
Quaternary palaeoentomology and palaeoclimatology
Photochemical reaction mechanisms
The physical chemistry of surfaces, colloids and polymers

The Council's intention in creating these posts is to contribute to the recruitment of researchers and to breathe new life into research itself. The programme is, therefore, aimed primarily at the younger researcher. These positions will be at an appropriate research group within Sweden. Tenure will be for 3 years as from October 1, 1995 and may be prolonged for another three years. The salary range will correspond to that of an associate professor (SEK 255 000-350 000 per year). Applications should reach the Swedish Natural Science Research Council, Box 7142, S-103 87 Stockholm, Sweden, by March 15, 1995. A curriculum vitae including a list of publications, a short research plan and, at most, 10 reprints of scientific papers should be appended in four copies to the application which should also be in quadruplicate.

Further information can be obtained from Ms. Natalie Lunin at the Secretariat of NFR, phone no +46 8 454 42 32, fax no +46 8 454 42 50.



FIRC-Italian Foundation for Cancer Research
FIEO-Foundation European Institute of Oncology

POST-DOCTORAL FELLOWSHIPS

are available for research at the Department of
Experimental Oncology of the

European Institute of Oncology
Milan

The European Institute of Oncology is a newly founded comprehensive cancer centre. The Department of Experimental Oncology comprises four sections headed by Dr. Pier Giuseppe Pelicci, Dr. Pier Paolo Di Fiore, Dr. Matthias H. Kraus, and Dr. Kristian Helin, investigating mechanisms of normal and neoplastic growth regulation. Major research areas include signal transduction by receptor tyrosine kinases, functional characterization of cytoplasmic signalling cascades, transcriptional regulation in cell cycle control, and gene expression and structure abnormalities in human cancer. Fellowships are initially offered for one year and are annually renewable for two additional years. Stipend levels will be competitive starting at 30 million Italian lire. M.D. or Ph.D. degree as well as basic research experience in Molecular Biology or Protein Biochemistry are required. Qualifying candidates are invited to forward applications including curriculum vitae, three letters of reference, and a statement of research interest with specific reference to one of the four sections. Applications should be sent to: **Dr. Pier Giuseppe Pelicci-European Institute of Oncology-Via Ripamonti, 435-20141 Milano-Italy.**

POSITIONS OPEN



CELL BIOLOGIST Chemical and Biological Evaluation

Bracco Research USA, the U.S. research and development labs of Bracco s.p.a., one of the world's largest *in vivo* diagnostics companies, has an opening in the Chemical and Biological Evaluation Department for a **CELL BIOLOGIST**. You would be a member of a multidisciplinary team evaluating the performance of *in vivo* diagnostic agents. Your job would be to design and use screens and animal models which complement those already in place for examining targeted delivery of Magnetic Resonance Imaging, Nuclear Medicine and Iodinated X-ray Contrast agents. You will have a Ph.D. in cell biology with at least two years of experience. You should have a good knowledge of mammalian cell culture techniques and an interest in the newer forms of drug discovery. Bracco Research USA offers a competitive salary and a generous benefits package including a company matching 401k plan. Please send a letter of introduction and your résumé to: **J. Dalton, Bracco Research USA, P.O. Box 5225, Princeton, NJ 08543-5225.** Bracco Research USA is an Equal Opportunity Employer.

RESEARCH PHARMACIST (SENIOR) (Pharmaceutical Research)

Mathematical modeling of animal/human pharmacokinetic data by computational methods. Modeling must be integrated with in-depth understanding of role of physicochemical properties of drug substance in formulation design to determine optimum design for immediate/controlled release dosage forms. Prepare dosage forms for animal studies to optimize biopharmaceutical properties. Prepare/analyze radioactive solutions for drug absorption studies. Interpret published information on modeling of drug absorption and on modeling of dosage form design, scale-up and manufacture. Apply interpretation to product development and process scale-up studies to minimize development timelines. Develop prototypical formulations for solutions, suspensions, creams and solid dosage forms. Characterize developed dosage forms utilizing scientific measurement techniques. Select optimum formulations for progression into human clinical studies and manufacture of clinical supplies. Represent Pharmaceutical R&D Department at International Project Team meetings by presenting/discussing/interpreting scientific findings and making recommendations for future dosage form design on basis of findings. 40 hours per week (8:20 a.m. to 4:50 p.m.)—Salary: \$4,420 to \$5,525 monthly. Requires Ph.D. in Pharmaceutics and M.S. in mathematics with background in complex analysis; experience or coursework in mathematical modeling of drug absorption. In-depth understanding of how gastrointestinal physiology influences drug absorption as evidenced by abstracts/publications and/or coursework. Experience handling radioactive materials; manufacturing solutions, suspensions, creams and capsules; techniques: laser diffraction for particle analysis, surface tension measurement, X-ray crystallography, TLC, HPLC, UV spectroscopy and NMR to the physicochemical characterization of drug substances and dosage forms. Excellent communication skills as evidenced by written publications and oral presentations at scientific meetings. West Point, Pennsylvania area. Must have proof of legal authority to work in the United States. Submit résumé or curriculum vitae to: **Job Order No. 4543237, Philadelphia Job Bank, 444 North 3rd Street—3rd Floor, Philadelphia, PA 19123.** An Equal Opportunity Employer.

Hampshire College. Laboratory **SCIENTIST** with a Ph.D. working in disciplines related to study of human health at cellular and molecular level in fields such as toxicology and immunology. Successful candidate will contribute to curriculum in women's health and Third World health, also biological, ecological and agricultural studies. Stimulating environment for interdisciplinary teaching and research. Faculty develop courses and seminars, supervise and evaluate range of student projects. Hampshire College has vigorous affirmative action program enriching its diverse community. Application review begins February 1, 1995. Position begins September 1995. Send curriculum vitae, names of three references, letter of application to: **Laurie Smith, School of Natural Science, Hampshire College, Amherst, MA 01002.**

COURSES AND TRAINING

BIOLOGY OF DISEASE VECTORS COURSE COLORADO STATE UNIVERSITY FORT COLLINS, COLORADO USA

18 June to 1 July 1995

The course provides a broad perspective of vector biology by emphasizing newer knowledge and techniques. Some subjects covered are host seeking, blood feeding, gene regulation, molecular systematics and population biology. The course is designed primarily for advanced graduate students, postdoctoral fellows, and independent investigators. Limited to 30 students. Financial aid will be provided based on need. For application forms and further information contact: **Dr. Barry J. Beaty, Arthropod-Borne and Infectious Diseases Laboratory, Colorado State University, Fort Collins, CO 80523 USA.** Telephone: 303-491-2988; Fax 303-491-0813.

Colorado State University is an Equal Opportunity/Affirmative Action Institution and complies with all federal and Colorado state laws, regulations, and executive orders regarding affirmative action requirements in all programs.

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SYMPOSIUM: Stem Cells: Prospects for the Clinic; February 6 and 7, 1995; Hyatt Ricketts, Palo Alto, CA. **SPEAKERS:** I. Weissman, Stanford; G. Spangrude, Utah; D. Emery, MGH; R. Hoffman, SyStemix; S. Heimfeld, Cell-Pro; R. Tushinski, SyStemix; M. Moore, Sloan Kettering; R. Mertelsmann, Germany; J. E. Wagner, Minn; R. O'Reilly, Sloan Kettering; R. Mulligan, MIT; E. Gilboa, Duke; J. Lebkowski, AIS; S. Chatterjee, City of Hope; D. Bodine, NIH; D. Kohn, UCLA; A. Deisseroth, M. D. Anderson; D. Valerio, IntroGene; C. Bordignon, Italy; D. DiGiusto, Progene; A. Galy, SyStemix; F. Gage, UCSF; S. Weiss, Calgary; J. Rhim, Penn; D. Sasaki, SyStemix; R. Knazek, Celco; G. Reeves, Ingenex; D. Harris, Arizona. Abstracts due January 28, 1995. Organizers: J. Larrick¹ and J. Mulé.

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SYMPOSIUM: Fluorescent Proteins and Applications; March 6 & 7, 1995; Hyatt Ricketts, Palo Alto, CA. **SPEAKERS:** Roger Beachy, Scripps Research Institute; John Blinks, Univ. of Wash.; Roger Brent, Mass. General Hospital; Marie Chow, Univ. of Arkansas; Frederic Fay, Univ. of Mass. Med Center; Nina Fedoroff, Carnegie Institute of Wash.; Scott E. Frasier, Calif. Institute of Technology; Alexander Glazer, U.C.B.; Robert Haskelkorn, Univ. of Chicago; Woody Hastings, Harvard; Nancy Hopkins, MIT; Steve Kay, Univ. of Virginia; M. E. Michel-Beyerle, Technical Univ. of Munich; Douglas Prasher, USDA/APHIS; Franklyn Prendergast, Mayo Foundation; Pamela Silver, Dana Farber Cancer Institute; Roger Tsien, U.C.S.D.; Peter Walter, U.C.S.F.; William W. Ward, Rutgers Univ. Abstracts due: February 27, 1995.

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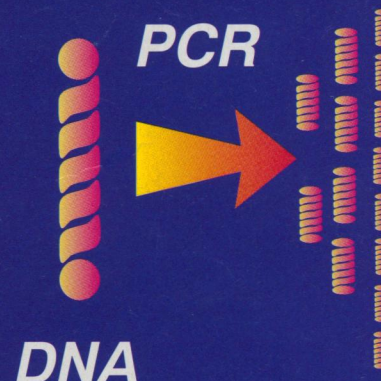
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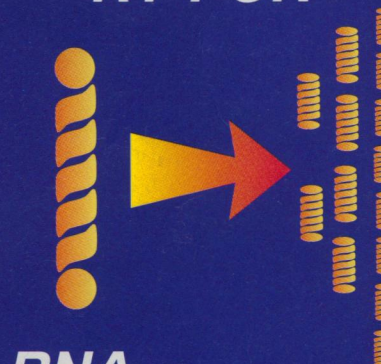


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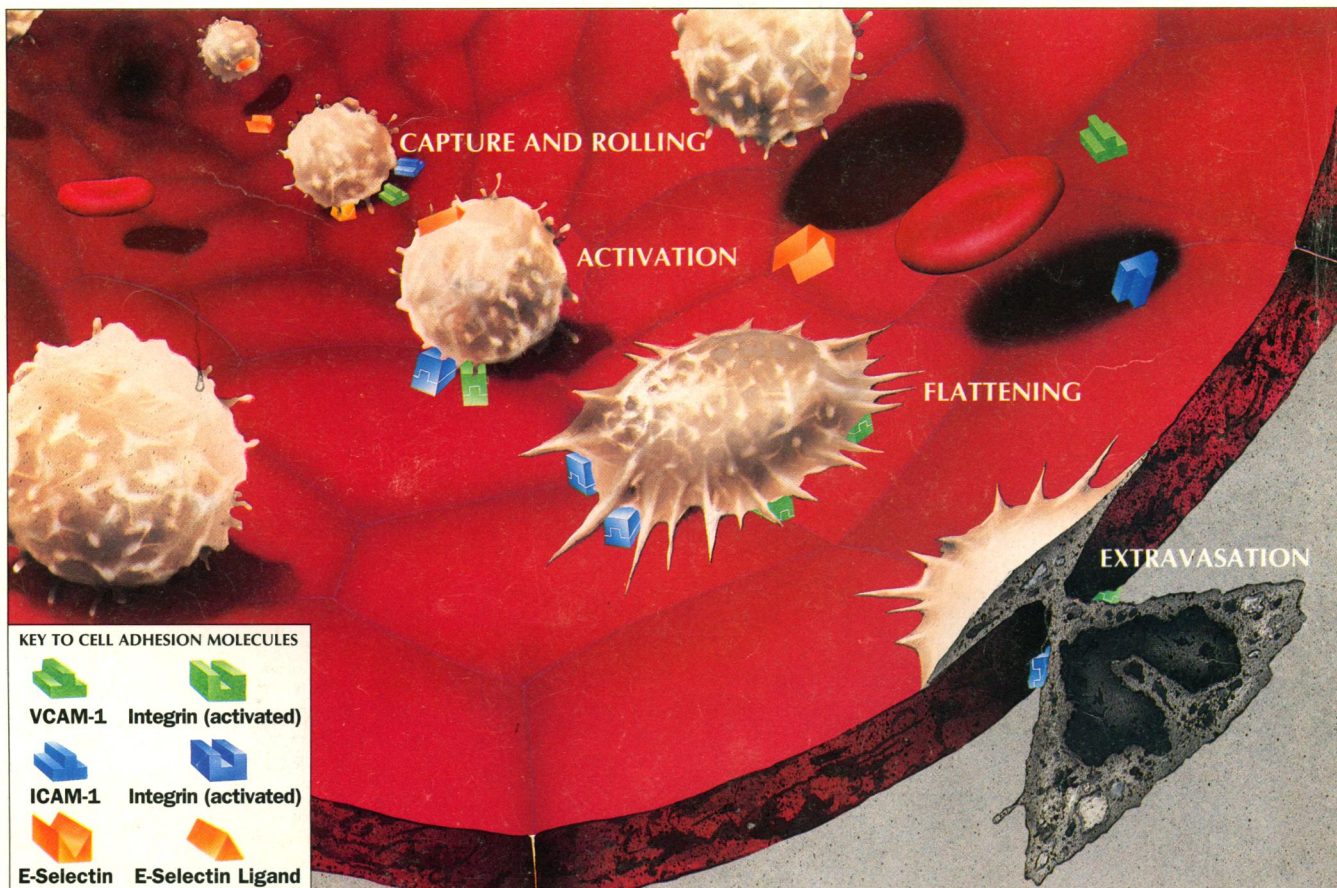
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