The galactosidase Technologies. Free to use by baculovirus expression vector system applications includes Express Five Serum Free Media, which boosts insect cell growth to densities exceeding 5 x 10^6 cells per milliliter and population doubling times to 16 to 30 hours. It supports optimized growth of the cell line in either monolayer or suspension culture and supports expression of recombinant proteins such as β-galactosidase at a level equal or superior to that of other serum-free media. Life Technologies. Circle 144.

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**Literature**

Video Image Capture System for FT-IR Microscopy describes a powerful system to display the image from the video camera of a Fourier transform infrared microscope on the computer's data station monitor. The system can produce image files that contain true colors, making photographic quality hard copies possible. Spectra-Tech. Circle 146.

3DQ Discovery: The New Generation Research MS/MS* Ion Trap Mass Spectrometer describes a mass spectrometer that offers true selective mass storage, selective mass removal, and selected reagent ion chemical ionization. Teledyne Electronic Technologies. Circle 147.


Hydra-96 Channel Microdispenser is an instrument that provides microliter dispensing without the use of pipette tips. Robbins Scientific. Circle 149.


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3D pair of wild-type Drosophila embryo (stage 16/17) stained with MAb6D5 to visualize developing muscles. Preparation provided by Dr. E. Giniger, Fred Hutchinson Cancer Research Center.
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CORNELL UNIVERSITY MEDICAL COLLEGE DEPARTMENT OF BIOCHEMISTRY

SCIENCE JOBNET:

POSITIONS OPEN

DIRECTOR

Missouri Resource Assessment Partnership

Applications are invited for a DIRECTOR of The Missouri Resource Assessment Partnership (MoRAP). MoRAP is an interagency partnership formed to facilitate the development and application of digital data bases for use in the resource assessment in Missouri. Desired qualifications are a M.S. or Ph.D. degree in natural resources, geography, or closely related field, a working knowledge of GIS, remote sensing technologies and the application of spatial data analysis and data base development including GIS/remote sensing technologies. The Director will manage the affairs of the Partnership, manage the MoRAP Technical Center, supervise its staff, and direct related projects. Salary range for this position is $50,000 to $60,000 or negotiable commensurate with experience. The Director will be employed by the University of Missouri and work at the MoRAP Technical Center which will be located at the National Biological Service's Mid-West Gulf Field Office in Columbia, Missouri. Interested candidates should send letter of interest, curriculum vitae, and three letters of reference to: Dr. Ronald Dronbeck, 112 Stephens Hall, University of Missouri-Columbia, MO 65211. Telephone: 573-882- 9420 or 314-882-3436. Closing date is July 31, 1995, or until a suitable candidate is found.

ENDOWED CHAIR IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for the Eric L. and Lila D. Nelson endowed chair in Pharmacology in the Department of Pharmacology at UC Irvine. We seek an internationally recognized scholar in molecular neuropharmacology with an outstanding record of accomplishment. Other qualifications include an M.D. and/or Ph.D. in pharmacology or a related field and an interest and talent for teaching. The holder of the Chair will be appointed as Professor in Pharmacology and tenure. As Endowed Chair, the incumbent will be responsible for attracting outstanding students and faculty performing an active research program and will be involved in establishing new graduate and undergraduate courses. The Department of Pharmacology has an active program in neuropharmacology and other related areas. Applicants should review the guidelines for this university's affirmative action policy and the guidelines set forth in the Americans with Disabilities Act of 1990.

CORNELL UNIVERSITY MEDICAL COLLEGE DEPARTMENT OF BIOCHEMISTRY

Several FACULTY POSITIONS at all levels are available starting in 1996. Areas of interest include structural biology and biophysics, especially as applied to membrane biology. Experienced candidates in other appropriate fields will also be considered. Candidates for senior level positions should have an outstanding record of productivity, and candidates for Assistant Professor positions should demonstrate the potential for establishing a vigorous independent research program. The Department of Biochemistry will occupy newly renovated laboratory and office space in 1996, and we will provide support to successful candidates. In addition to medical student teaching, candidates will participate in the Cornell University Graduate Program in Biochemistry and Structural Biology which includes faculty from the Medical College and the Sloan-Kettering Institute. Applications should include a curriculum vitae, statement of research interests, and names of three references. Applications should be sent to: Dr. Frederick R. Marfield, Chairman, Department of Biochemistry, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Cornell University is an Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR of Pharmacology in Anesthesiology in the Department of Anesthesiology at the University of Illinois at Chicago. Tenure-track position for independent investigator with research interests related to the neurobiology of pain. This position requires a commitment to excellence in research and training and have substantial outside funding. Some background in molecular biology preferred, but not required. Interested persons should address correspondence to: Ronald F. Albrecht, M.D., Head, Department of Anesthesiology, University of Illinois at Chicago, 825 S. Wacker Dr., MC 155, Chicago, IL 60611. Attention: June Palmer, Ph.D., Assistant Head. Please include curriculum vitae, names of three references, and a brief description of research program. Equal Opportunity/Affirmative Action Employer.
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Turn your ideas into innovations and expand your career at PerSeptive Biosystems. Please send your resume to Human Resources, PerSeptive Biosystems, Inc., Dept. DNAC, 500 Old Connecticut Path, Framingham, MA 01701; FAX (508) 383-7833. No phone calls, please. An equal opportunity employer.

RESEARCH SCIENTIST

Protein Analytical Chemistry

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Please send your resume to: ALZA Corporation, Human Resources Dept., Attn: Job # SC0714-SH, 950 Page Mill Road, PO Box 10950, Palo Alto, CA 94303-0802.

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ANALYTICAL CHEMIST

This position will address the rapidly increasing need for analytical methodology. Bench-top, in-line and at-line methods are needed to support the process and you will be responsible for the application of available technology, testing and development of methodology, and planning for the use of time, resources and training. This R&D Chemist role demands original, independent thinking to apply knowledge to new situations. A PhD or Masters in Chemistry plus a minimum of 5 years industrial experience is required. The proven ability to identify and resolve problems, knowledge of chromatography and spectroscopy, and knowledge of organic chemistry, analytical instrumentation hardware and computer hardware are also required.

We offer a highly competitive compensation and benefits package in a smoke-free environment. For consideration, please send resume, including salary requirements and position of interest, to: Jeanne McCaherty, Cargill Corn Milling, 1 Cargill Drive, Eddyville, IA 52553-5000. Fax (515) 969-3850. Employment is contingent upon passing a pre-employment physical, drug and alcohol screen and criminal background check.

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POST-DOCTORAL FELLOW

Bone/Cell/Molecular Biology

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Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital & Medical Center, 114 Woodland Street, Hartford, CT 06105-1299.
POSTDOCTORAL POSITIONS AVAILABLE IN BIOCHEMISTRY/MOLECULAR BIOLOGY

The University of Michigan is seeking highly motivated, career-minded individuals to fill two POSTDOCTORAL POSITIONS. Preference will be given to candidates who can join us prior to July 31, 1995. Applicants should possess a broad background in Molecular Biology or Biochemistry with demonstrated research excellence and strong written and oral communication skills.

Research will investigate transcriptional regulation of protooncogenes and protooncogene family members, and their participation in the regulation of cellular growth and differentiation. Studies will focus on cloning and characterization of the protooncogene human PKC-α, and its regulation by tissue-specific and differentiation specific transcription factors.

Send curriculum vitae to: Dr. Gary J. Fisher, Department of Dermatology, University of Michigan, 1301 East Catherine, Kresge I, 65658, Ann Arbor, MI 48109-0528. Email: cmhill@cc.imap.ltd.umich.edu; FAX: 313-747-0076. The University of Michigan is a non-discriminatory, Affirmative Action Employer.

POSTDOCTORAL POSITIONS
NIH-funded POSTDOCTORAL POSITIONS available in two related areas: 1) Protein oxidation and degradation, regulation by proteasome, and 2) Regulation of proteasome gene expression in response to oxidative stress. Both positions require strong training and background in Molecular Biology and Molecular Biology. You will join a laboratory group of some 16 researchers involved in the above areas, but will have your own project. Our College has great interdisciplinary strength in the areas of oxidative stress, protein degradation, and regulation of gene expression, and offers an excellent environment and facilities. Send curriculum vitae and the names and addresses of three academic references to: Prof. Kelvin J. A. Davies, Chairman, Department of Biochemistry & Molecular Biology, The Alberty Medical College, Alba
ty, NY 12208. FAX: 518-262-569.

POSTDOCTORAL POSITION
An immediate opening is available for a National Institutes of Health Lung Disease Training Grant-funded position to study the regulation of IL-1 gene transcription. Studies will involve the cloning and characterization of transcription factors, identification of repressor elements, and in vivo analysis of IL-1 promoter elements and transcription factors using transgenic approaches. Applicants should have a strong background in molecular biology and some experience in gene expression is desirable. By terms of the federal grant the position is limited to U.S. citizens or permanent residents. Applicants should write to: Prof. Clifford J. Bellone, Ph.D., Department of Molecular Microbiology and Immunology, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104.

Signal Transduction/Immunology POSTDOCTORAL POSITIONS are available to study the mechanisms of gene regulation and signal transduction in T lymphocyte activation. Current studies focus on the kinases/phosphatases regulating Re/NF-κB transcription factors, HIV / IL-2 gene regulation, CD28 signaling, and cloning of JNK/SAPK kinase-binding proteins using yeast two hybrid system. Applications should be addressed to: Dr. Tie-Hua Tan, Immunology Section 229, Baylor College of Medicine, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
A POSTDOCTORAL POSITION is available immediately in a molecular membrane and cell biology group. The focus of the research is investigation of the regulation of mammalian cell proliferation at the cellular and molecular level. The role of cytokines and signaling pathways with application to endothelial and epithelial cell growth is of particular interest. Experience in molecular biology and cell biology is desirable. Salary of $30,000 to $40,000 commensurate with experience. Letter of application should include three references. Send curriculum vitae if available. Apply to: Dr. George Sachs, c/o BACRA, WLA/VAMC, 1130 Wilshire Boulevard, Building 113, Room 324, Los Angeles, CA 90073. Open until August 15, 1995.

MOLECULAR IMMUNOLOGY
A POSTDOCTORAL POSITION is available for studies involving B cell differentiation in vivo and somatic mutation of antigen genes at the single cell level. Applicants must have experience in Molecular Biology. The National Jewish Center for Immunology and Respiratory Medicine offers an exceptional environment and resources for studies of the immune system. Interested candidates should contact: Larry J. Wysocki, Ph.D., Division of Basic Sciences R902, National Jewish Center for Immunology and Respiratory Medicine, 1400 Jackson Street, Denver, CO 80206.

POSTDOCTORAL POSITION available immediately. Molecular and biochemical investigation of airway remodelling and the selective roles of growth factor and neuropeptides. Experience in molecular biology and/or gene expression of enzymes/proteins required. FAX curriculum vitae with three references to: 609-735-1472. Dr. D.J. Murphy, Chest Institute Medicine, Department, Deborah Heart and Lung Center, Browns Mills, NJ 08015. Equal Opportunities Employer.

POSTDOCTORAL POSITIONS are available at the Center of Immunology and Infectious Diseases, M.D.'s and Ph.D.'s with research experience in molecular biology and/or immunology are encouraged to send application to: Director, Institute of Molecular Medicine for the Prevention of Human Diseases at The University of Texas, Houston, 2121 West Holcombe Boulevard, Houston, TX 77030. The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWSHIP position to study the immunobiology of Hepatitis C Virus. Funded by a Program Project (first of five years). Requires a doctoral degree and strong research interests in human immunobiology. T-cell biology and molecular immunology. Send curriculum vitae and names of references to: David D. Ecker, Ph.D., Senior Investigator, Blood Research Institute, The Blood Center of Southeast Wisconsin, P.O. Box 2178, Milwaukee, WI 53201-2178. Equal Opportunity Employer/Men/Dem/Disabled/Veterans.

POSTDOCTORAL RESEARCH FELLOWSHIP—Positions are available, September 1995, for postdoctoral fellows experienced in cellular immunology or protein chemistry. The studies involve viral and immunological features of HIV pathogenesis. Must be U.S. citizen or permanent resident. Send curriculum vitae to: Jay A. Levy, M.D., Cancer Research Institute, University of California, San Francisco, CA 94143-0128. The University of California, San Francisco is an Equal Opportunity/ Affirmative Action Employer.

 SENIOR RESEARCH ASSOCIATE RESEARCH ASSISTANT PROFESSOR Molecular Neurobiology
Funded position available immediately for advanced POSTDOCTORAL FELLOW or RESEARCH ASSISTANT PROFESSOR to work as part of a team studying structure and function of sodium channels. Experience in channel physiology, patch clamps, oocyte expression and data analysis required. Send curriculum vitae and three current references to: R. L. Barci, Department of Neuroscience, University of Pennsylvania Medical School, Philadelphia, PA 19104 The University of Pennsylvania is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

VISITING FELLOWSHIPS 1997, Humanities Research Centre, The Australian National University (ANU). Applications are invited for Visiting Fellowships in the Humanities Research Centre in 1997. Each year the Centre concentrates upon a special theme. In 1997 the theme will be “Identity.” The Centre intends to organize three conferences: “Emotion in Social and Political Theory” (early July); “Identities and Conventions” (to be held jointly with the Research School of Pacific and Asian Studies, ANU in mid-July); and “Indian
groups, Political Theory and the Reshaping of Institutions” (to be held jointly with the Research School of Social Sciences, ANU in late August). Applications from scholars working in any area of the humanities are welcomed, as a proportion of each year’s Fellowships is reserved for women. The Centre’s present theme is “Identity.” The majority of Fellowships, however, will be awarded to those whose work is relevant to the annual theme and is connected to work at the Centre, but are encouraged also to visit other Australian universities. Grants usually include a travel component and a weekly allowance. Propective applicants must obtain further particulars and application forms from the Centre Administrator, Humanities Research Centre, The Australian National University, Canberra ACT 0200 Australia. Email: hrc@anu.edu.au. Applications should reach the Registrar, ANU, by 31 October 1995. Ref: HRC 20.6.1. The University is an Equal Opportunity Employer.

RESEARCH ASSOCIATE POSITION
Available in ultrastart spectroscopy. Ph.D. in physics and four years of experience in construction of TissueApparate oscillators and high-power, ultrashort pulse amplifiers required. Two years of experience in high-field interactions in solids and laser ultrasonic required. Salary $35,000 to $40,000 depending on curriculum vitae and three letters of recommendation. Mail curriculum vitae and three letters of recommendation by August 20, 1995, to: Prof. Keith A. Nelson, Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA 02139; MIT is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE, full-time to study psycho
tropic receptors and ion channels expressed in Xenopus oocytes. Earned Master's degree in biological sciences, experience in electrophysiological techniques, effective communication and interpersonal skills required; Ph.D. preferred. Successful candidate will join a NASA/NSF network of investigators studying plant sig

CLINICAL RESEARCH ASSOCIATE—Cooper Hospital/University Medical Center, a clinical campus of Robert Wood Johnson School of Medicine; Division of Critical Care, Department of Pediatrics. Experience in clinical investigation of immunocompromised and pediatric patients in data acquisition and analysis required. Preference to can
didates with background in pediatric pulmonary medicine or critical care. Correspondence: Dr. Michaela S. Sotera, 6963-3981 or send curriculum vitae to: Dr. Courtney at Cooper Hospital/UHC, c/o Suite 520, 3 Cooper Plaza, Camden, NJ 08103, Attn: Ronnie Mazzucco.
CHEMIST

The Fine Chemicals Business Unit of the Chemicals Technical Center of PPG Industries, Inc., located in Monroeville, Pennsylvania, is looking to expand its capability in the custom manufacture of pharmaceutical intermediates and bulk actives. This senior position involves the evaluation, laboratory, development, scale-up and transfer to manufacturing of custom chemicals for its customers. There will also be interaction with the Sales/Marketing and Manufacturing departments to ensure successful completion of our projects. The candidate should have a Ph.D. in organic chemistry and 5-10 years experience in pharmaceutical process development. Knowledge of GMPs is required, as well as good written and oral communication skills. We offer a competitive compensation package.

Qualified candidates should reply to: Human Resources File #Fine-1, PPG Industries, Inc., Chemicals Technical Center, 440 College Park Drive, Monroeville, PA 15146.

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1995/1996 CaP CURE AWARDS

CaP CURE, the Association for the Cure of Cancer of the Prostate, has the goal of finding a cure for advanced prostate cancer and is soliciting proposals for its 1995/1996 funding year.

Applications (3-5 pages, 4 copies) are for basic research, clinical investigations or a combination and must be relevant to the treatment of advanced prostate cancer. Please append NIH format bibliography and identify sources of current funding, if any. We particularly encourage interdisciplinary collaborations between basic scientists and clinicians. Awards range from $50,000-$200,000 and are competitively renewable annually. Applications are accepted from individuals with/without institutional affiliation. (For-profit companies are not eligible.) Application deadline: August 15, 1995. Notification is expected by October 1, 1995.

Submit applications or requests for information to:

CaP CURE
1250 Fourth Street, Suite 360
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Phone: (310) 458-2873
Fax: (310) 458-8074

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SmithKline Beecham, a worldwide leader in pharmaceutical research, currently has an opportunity for an NMR Spectroscopist in our Physical and Structural Chemistry department.

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The successful candidate will have a Ph.D. in Physics, Chemistry or Biochemistry and a sound knowledge of NMR theory with a strong experimental background in multidimensional NMR techniques. We are particularly interested in a person with experience in application of NMR methods to biological problems, including determination of protein and nucleic acid structure.

Located in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package, and a stimulating work environment. Interested candidates should send resume with salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H0223, P.O. Box 2646, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.

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Ph.D. SCIENTIST
NMR SPECTROSCOPY

The Upjohn Company is seeking a scientist to lead a large NMR laboratory and participate in critical drug development programs.

Responsibilities include structure elucidation of drug impurities and degradation products, characterization of chemical degradation pathways, application of NMR to solid-state and solution dynamics problems, maintenance of a state-of-the-art laboratory, development and implementation of new NMR and data analysis technology, and participation in team problem-solving projects. You will collaborate with scientists and professionals in NMR and other disciplines, including mass spectrometry, preparative chromatography, vibrational spectroscopy, synthetic chemistry, medicinal chemistry, etc. Growth of scientific expertise and reputation through internal and external presentations and publications is encouraged.

A Ph.D. in Physical Chemistry, Physical Organic Chemistry or a related discipline is required, along with training in current NMR techniques, knowledge of structural organic chemistry and a demonstrated ability to solve challenging problems in a team environment.

Upjohn Laboratories offers a stimulating, multi-disciplinary research environment at our headquarters in Kalamazoo, Michigan, a medium-sized community which offers a variety of cultural and recreational opportunities, as well as a four-season climate. An excellent salary and benefits package is provided. For confidential consideration please send your resume to: The Upjohn Company, Corporate Recruiting, Ad #296, 7000 Portage Road, Kalamazoo, Michigan 49001. We are an Equal Opportunity employer with a commitment to workplace diversity.
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The Wistar Institute, an independent biomedical institution, is located on the University of Pennsylvania campus, and is an NCI dedicated cancer center.

Send curriculum vitae and the names of three references to: Faculty Search Committee, THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104.

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**Cell Signaling and the Cytoskeleton**

**September 15-18, 1995**

**Sponsored By:**

W. Alton Jones Cell Science Center, Inc.

**ORGANIZING COMMITTEE**

Dr. Susan Jaken, W. Alton Jones Cell Sci. Ctr.

Dr. J. Thomas Parsons, Univ. of Virginia

Dr. John D. Scott, Vollum Inst.

**Topics include:** Cell attachment and signaling; cytoskeletal association of signaling molecules; regulation of cytoskeletal filaments; targeting of phosphatases; association of kinases and their targets with the cytoskeleton.

**SPEAKERS**

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**REGISTRATION FORMS MAY BE OBTAINED FROM:** The Organizing Committee, W. Alton Jones Cell Science Center, 10 Old Barn Road, Lake Placid, NY 12946 Tel: (518) 523-1252 Fax: (518) 523-1849

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UNIVERSITY OF ZURICH
Institute of Organic Chemistry

Professorship in the field of
NMR Spectroscopy

Applications are invited for the position of Full/Associate Professor in NMR spectroscopy, specializing in studies of biomolecules. Candidates should have an outstanding record of independent research and be willing to interact with colleagues within and outside the University. The area of macromolecular recognition has been defined as a priority area by the Faculty of Sciences. The appointee will be expected to contribute to the teaching programme of the Institute of Organic Chemistry.

Applicants should submit their curriculum vitae, brief summaries of previous research and future research plans, list of publications, and the names of three potential referees to: Dekan der Philosophischen Fakultät II, Professor Dr. H. Fischer, Universität Zürich, Winterthurerstrasse 190, 8057 Zürich, Switzerland. Applications will be accepted until August 25, 1995. The position may be filled from October 1996.

Informal enquiries may be addressed to the Head of the Institute of Organic Chemistry, Prof. Dr. J. A. Robinson (phone:+41-1257-4242; Email robinson@oci.unizh.ch).

THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:-
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Candidates should have a Ph.D. degree and post-doctoral experience in (i) human genetics, with substantial research emphasis on the genes responsible for inherited and somatic metastatic diseases or (ii) cancer research, particularly as it relates to the interaction among drugs, radiation and growth factors in suppressing tumour growth. The successful applicant is expected to develop externally funded research programmes and participate in graduate training and the instruction of undergraduate science and medical students. He or she will be provided with laboratory space and start-up funds in a well appointed Department which offers tissue/cell culture facilities and analytical equipment including automated DNA sequencer, DNA synthesizer, flow cytometer, confocal microscope, mass spectrometer as well as opportunities for collaborative work. The specific area of research is open but demonstrable expertise in genome mapping and gene knock-out which can complement the Department’s existing research interests will be decided advantages. The posts will be available in September 1995. English and/or Chinese are used in teaching and administration in the University.

Annual Salary and Fringe Benefits
Lecturer:
HK$142,980 - 689,880 by 10 increments (approx. exchange rate in June 1995: US$1=HK$7.8, £1=HK$12.4)

Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full-pay, medical and dental care, education allowance for children, housing benefit for eligible appointee (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may be made either on regular or contract terms. Under regular contract, retirement benefits are provided. Fixed term contract also carries a contract-end grant.

Application Procedure:
Send full resume in duplicate, and names and addresses of three referees, with copies of academic credentials (in duplicate) and recent publications, to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852)2603 6852) before August 6, 1995. Please quote the appropriate reference no. and mark “Recruitment” on cover.
THE CARDIOVASCULAR RESEARCH CENTER

THE CARDIOVASCULAR RESEARCH CENTER AT THE UNIVERSITY OF VIRGINIA SEEKS APPLICATIONS FOR FACULTY PARTICIPANTS IN A MULTIDISCIPLINARY PROGRAM OF GENE TRANSFER IN THE CARDIOVASCULAR SYSTEM

The Cardiovascular Research Center at the University of Virginia announces a program supported jointly by Federal, University, and local sources. The program is designed to implement gene transfer and gene therapy in the mammalian cardiovascular system. An inter-disciplinary group is undertaking a coordinated effort to develop methods for transfection, tissue-specific gene regulation and the production of knockout animals, with a focus on the cells and tissues of the cardiovascular system. We seek individuals to fill faculty positions as follows:

MOLECULAR GENETICIST

The qualified individual must have significant expertise in some aspect of molecular genetics, preferably as it applies to cells of the cardiovascular or immune system. Examples of appropriate areas of expertise include, but are not limited to: embryonic stem cell technology, transcription factor regulation of gene function, and the application of knock-out technology to the manipulation of the mammalian genome. Broad expertise in molecular biological techniques and their application to the study of gene regulation are desired. The individual must have the ability to organize and coordinate a program in analysis of gene structure or gene function and to interact with other faculty in ongoing efforts in this area. Preference will be given to investigators with prior experience in tissue specific modulation of gene expression in intact animals. Senior or junior appointments may be made, consistent with the background and experience of the applicant.

ASSISTANT PROFESSOR - DIRECTOR OF THE EMBRYONIC STEM CELL CENTER

We seek an applicant with demonstrated expertise in transgenic and knockout technology. Both M.D. and Ph.D. applicants will be considered. Applicants should have experience in molecular genetics and molecular biology, as well as an understanding of basic physiological processes. This is an outstanding opportunity for an investigator to participate in development of a multidisciplinary center for the exploitation of embryonic stem cell technology in the study of the physiology and pathophysiology of the cardiovascular system.

MOLECULAR BIOLOGY AND MOLECULAR GENETICS - RESEARCH ASSISTANT PROFESSOR - POSTDOCTORAL FELLOW

Two positions are available for qualified applicants who hold the Ph.D. or M.D. degree with a strong background in molecular biology, particularly as it applies to promoter - enhancer regulation of gene function. Special preference will be given to applicants who have experience in studies of promoter regulation in both cultured cells and in transgenic animals.

The University Of Virginia is an Equal Opportunity/Affirmative Action Employer. Interested applicants may send curriculum vitae, and a list of references to Brian R. Duling, Ph.D., Box 449, Department of Physiology, Charlottesville, VA 22908.

E-mail: cimcon@virginia.edu
gopher.virginia.edu login: "gwis"
http://www.med.virginia.edu/inter-dis/cvrc

OREGON HEALTH SCIENCES UNIVERSITY

MOLECULAR ENZYMOLOGY

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We wish to recruit biochemists whose primary interest is in investigating the mechanisms of enzyme catalysis employing modern molecular techniques.

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

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

Professor Jack H. Kaplan, F.R.S.
Faculty Search (ME)
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road, L224
Portland, OR 97201-3098

OHSU is an Affirmative Action/Equal Opportunity Employer

VETERINARY PATHOLOGIST

The School of Veterinary Medicine, University of California, Davis is seeking applications for an ASSISTANT PROFESSOR of Veterinary Pathology. Board certification or eligibility in the ACVP is required. PhD preferred. Qualifications should include advanced training in anatomic pathology, clinical experience and competence in veterinary pathology, and demonstrated aptitude/experience in teaching. Documented research record or potential to develop an independent research program in the molecular basis of disease is essential. Responsibilities include participation in lectures and laboratories in the DVM curriculum, clinical teaching and participation in resident training programs at the Veterinary Medical Teaching Hospital, and the graduate academic programs of the campus. Applications will be accepted through September 15, 1995 or until a candidate is identified. Please submit a letter of intent, curriculum vitae, and names and addresses of three professional references to: N. James MacLachlan, Department Chairman, Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA 95616. The University of California is an Affirmative Action/Equal Opportunity Employer.
1996 KEYSTONE SYMPOSIA
on Molecular and Cellular Biology

Application/Abstract Deadline: Sept. 30, 1995

Integrins and Signaling Events in Cell Biology and Disease - 350
Organizers: David A. Cheresh and Martin A. Schwartz
January 5-11, 1996, Keystone, Colorado

Molecular and Developmental Biology of the Extracellular Matrix - 300
Organizers: Benoit de Crombrugghe, Clayton A. Buck and Francesco Ramirez
January 5-11, 1996, Keystone, Colorado

Small GTP-Binding Proteins and Growth Factor Signaling Pathways - 300
Organizers: Gary M. Bokoch and Richard A. Cerione
January 5-11, 1996, Tamarron, Colorado

Oxidant Stress: From Molecules to Man - 250
Organizers: Mary E. Gerritsen, D. Neil Granger and Guy Zimmerman
January 8-14, 1996, Santa Fe, New Mexico

The Cell Cycle - 600
Organizers: Steven J. Reed and Joan Ruderman
January 11-17, 1996, Taos, New Mexico

Blood Cell and Bone Marrow Transplants - 800
Organizers: Robert Peter Gale, Richard E. Champlin and James A. Armitage
January 15-21, 1996, Keystone, Colorado

Hepatitis C and Beyond - 300
Organizers: Richard H. Decker and Robert H. Purcell
January 23-29, 1996, Burlington, Vermont

Tissue Engineering - 500
Organizers: Jeffrey A. Hubbell and A. Hari Reddi
January 23-29, 1996, Taos, New Mexico

Wound Repair in Context - 350
Organizers: Richard A. Clark and John McPherson
January 23-29, 1996, Taos, New Mexico

The Molecular Biology of the Cardiovascular System - 800
Organizers: Jeffrey M. Leiden, Victor J. Dzau, Richard Lavy, Christine Siedman, Robert Rosenbarg and R. Sanders Williams
January 29-February 4, 1996, Keystone, Colorado

Breast and Prostate Cancer: Basic Mechanisms - 600
Organizers: Mina Bissell and Timothy Thompson
January 29-February 4, 1996, Taos, New Mexico

Cell Polarity - 250
Organizers: Keith E. Mostov and Pietro De Camilli
February 1-7, 1996, Lake Tahoe, California

Application/Abstract Deadline: Oct. 4, 1995

Ion Channels as Therapeutic Targets - 350
Organizers: Michael Calehlan, K. George Chandy, Doug Hanson and Alan North
February 4-10, 1996, Tamarron, Colorado

Gene Therapy for Hematopoietic Stem Cells in Genetic Disease and Cancer - 600
Organizers: Stefan Karlson, Keith Humphries and Paul Tolstoshev
February 4-10, 1996, Taos, New Mexico

Cell Migration - 250
Organizers: Michael P. Sheetz, Rick Horwitz and Doug Leutenburger
February 4-10, 1996, Santa Fe, New Mexico

Neural Peptides - 250
Organizers: Richard E. Maines, James F. Battey and Robert A. Stein
February 8-14, 1996, Lake Tahoe, California

Inductive Interactions during Vertebrate Embryogenesis - 300
Organizers: Steven C. Pruitt, Marianne Bronner-Fraser, Robert M. Grainger, Mary Mullins, Christopher V.E. Wright and Richard R. Behringer
February 8-14, 1996, Hilton Head Island, South Carolina

Molecular Mechanisms in DNA Replication and Recombination - 600
Organizers: Michael O'Donnell and Stephen C. West
February 10-16, 1996, Taos, New Mexico

Cell Biology of Virus Entry, Replication and Pathogenesis - 300
Organizers: Richard W. Compans, Ari Helenius and Michael B.A. Oldstone
February 10-16, 1996, Santa Fe, New Mexico

Application/Abstract Deadline: Oct. 18, 1995

Molecular Regulation of Platelet Production - 500
Organizers: Martin J. Murphy, Alan M. Gewitz and Si Lok
February 16-22, 1996, Taos, New Mexico

The Hematopoietic Microenvironment - 500
Organizers: Armand Keating and Joel Greenberger
February 16-22, 1996, Taos, New Mexico

Exploring and Exploiting Antibody and Tg Superfamily Combining Sites - 600
Organizers: Edgar Haber and James S. Huston
February 22-28, 1996, Taos, New Mexico

Molecular Hematopoiesis: An Integrated Approach - 500
Organizers: James L. Bennett, Timothy G. Geary, Donald L. Riddle, Richard M. Maizels, Philip LoVerde and Valerie Williamson
February 22-28, 1996, Santa Fe, New Mexico

Molecular Approaches to the Function of Intercellular Junctions - 250
Organizers: Bruce J. Nicholson, Daniel Goodnough, Pamela Cowin and Peter Bryant
March 1-7, 1996, Lake Tahoe, California

Viral Genome Replication - 300
Organizers: Paul Ahquist, Jeremy Bruenn and Eckard Wimmer
March 1-7, 1996, Tamarron, Colorado

Posttranscriptional RNA Processing - 800
Organizers: Kenneth Stuart, Michael Green and Jack Szostak
March 11-17, 1996, Hilton Head Island, South Carolina

Molecular Basis for Drug Resistance in Bacteria, Parasites and Fungi - 300
Organizers: Stuart B. Levy and Thomas E. Welling
March 11-17, 1996, Park City, Utah

The Extracellular Matrix of Plants: Molecular, Cellular and Developmental Biology - 300
Organizers: Andrew Stachelin, Michael Hahn, Norman Lewis, Andrew Mort and Keith Roberts
March 15-21, 1996, Tamarron, Colorado

Application/Abstract Deadline: Nov. 15, 1995

Steroid/Thyroid/Retinoic Acid Gene Family - 450
Organizers: Kathryn B. Horwitz, John A. Giddowlski and Ronald Evans
March 17-23, 1996, Taos, New Mexico

Transcriptional Mechanisms - 600
Organizers: Thomas Sherin and Danny Reinberg
March 17-23, 1996, Taos, New Mexico

Lymphocyte Activation - 800
Organizers: Susan L. Swain, B.J. Fowkes and John Cambier
March 20-26, 1996, Hilton Head Island, South Carolina

Proteolytic Enzymes and Inhibitors in Biology and Medicine - 400
Organizers: James Travis, Clarence A. Ryan, Hidaki Nagase and Christine Debuck

Immunopathogenesis of HIV Infection - 800
Organizers: Robert Schooley, Bruce D. Walker and Denis Henard
March 26-April 1, 1996, Hilton Head Island, South Carolina

Signal Transduction through Tyrosine Kinases - 350
Organizers: Ralph A. Bradshaw, Lena Claessen-Welsh, David Kaplan, Linda Pike and Klaus Seedorff
March 27-April 2, 1996, Taos, New Mexico

Signaling in Neuronal Development, Differentiation and Degeneration - 200
Organizers: Mariano Barbacid, Michael Greenberg, Ronald McKay and George Yancopoulos
March 27-April 2, 1996, Taos, New Mexico

Application Deadline: Jan. 15, 1996

The Conduct of Science - Keeping the Faith - 800
Organizers: John Bailer, Jeff Williams
May 2-5, 1996, Keystone, Colorado

Registration in any meeting in an outlined group qualifies for attendance in any meeting in that group.

For more information, please contact:
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Position 1 - Scientist/Staff Scientist
Seeking a Ph.D. with 3-6 years postdoctoral training in peripheral nervous system function. Particular emphasis will be given to candidates with the ability to integrate electrophysiological and behavioral measures as they pertain to peripheral neuropathy and trauma of the peripheral nervous system. Successful candidates will have a proven publication record and demonstrate the ability to work well with a project team and possess good oral and written communication skills.

Position 2 - Postdoctoral Scientist/Scientist, Peripheral Nerve
Seeking a Ph.D. with 0-3 years postdoctoral experience in peripheral nerve studies in vivo. Special emphasis will be given to candidates who show an integrated approach of cellular, biochemical and molecular biological approaches to analysis of the developing and compromised adult peripheral nervous system. Successful candidates will have the ability to initiate projects independently and also work with a team of scientists.

Position 3 - Postdoctoral Scientist, Cell Biologist
Seeking a Ph.D. with 0-3 years postdoctoral experience with in vitro approaches to studying peripheral neurons and glial cells. Particular consideration will be given to candidates interested in mechanisms of trophic factor involvement in cell death processes. Successful candidates will show the ability to initiate projects independently and also work with a team of scientists.

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Computational Molecular Biology

Beth Israel Hospital, a major Teaching and Research Hospital affiliated with Harvard Medical School, is seeking a Computational Molecular Biologist to coordinate a distributed computer resource for Cell & Molecular Biology research. The successful candidate is expected to enable and enhance the ability of faculty and staff to conduct research through collaboration and service. In addition to scientific qualifications, the applicant must be proficient in C programming and UNIX system management; experienced with networks consisting of UNIX workstations, PCs and Macs; and experienced with standard molecular biology software and databases. Experience managing Internet tools and resources is highly desirable.

Applicants should hold an advanced degree and have demonstrated experience in molecular, cell or structural biology.

Applications from minorities, women, and handicapped individuals are especially encouraged. Qualified candidates should forward a CV, and the names and phone numbers of three references to: Adrienne McCosh, Human Resources, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215. An Equal Opportunity Employer.

Beth Israel Hospital Boston
We Have A Future...Together.
The University of Memphis is seeking a Vice Provost for Research and the Graduate School to be responsible for providing leadership for the overall operation and development of research activities and graduate programs of the university. The Vice Provost promotes and facilitates basic research, sponsored activities, interdisciplinary research, and research that reinforces the urban mission and cultural diversity of the university. This position serves as catalyst between the faculty and government agencies, foundations, and industry in developing research support. The Vice Provost oversees the graduate programs and administers the distribution of institutional research funds, research and teaching assistantships, graduate fellowships and scholarships to enhance the research and graduate mission of the university.

The University of Memphis is one of two comprehensive doctoral granting public institutions in Tennessee, with 6 colleges and 3 professional schools, enrolling approximately 20,000 students, of which 4300 are in graduate programs. The University of Memphis is strongly committed to its urban mission and outreach programs and recognizes the diverse and interrelated roles played by faculty and administration in fulfilling a comprehensive mission of research, education, and community outreach.

Candidates must have an established record in research and graduate education; experience in administration of research and training programs, and an earned doctorate or equivalent terminal degree. Preference will be given to candidates who have research and graduate experience at the faculty, departmental, college, and/or university level; have experience at an urban university which is culturally diverse; have experience in securing and administering extramural funds; have an intimate knowledge of granting agencies and funding sources; have a track record of scholarship and experience in graduate education as part of a Ph.D.-granting institution; and have effective communication and leadership skills.

The University of Memphis is strongly committed to diversity; women and minority candidates are encouraged to apply. Screening of candidates will begin September 5, 1995, and may continue until the position is filled. Applicants should submit a letter of interest, a vitae, and a list of five references to:

Dr. Robert C. Kiesges, Chair, Search Committee, Vice Provost for Research and the Graduate School, c/o Office of the President, 313 Administration Building, The University of Memphis, Memphis, Tennessee 38152
E-mail: bkiesges@musv.x1.memphis.edu

The University of Memphis is an Equal Opportunity/Affirmative Action University.

JILA

JILA [operated jointly by the National Institute of Standards and Technology (formerly NBS) and the University of Colorado] is devoted to research and applications in the fields of laser technology, optoelectronics, precision measurement, surface science and semiconductors, information and image processing, materials and process science, as well as basic research in atomic, molecular and optical physics, and geometrical measurement. At JILA there is interest in fostering further integration with industry research efforts, in order to identify new, industrially relevant, applications of the technologies developed. Applications are invited for two programs:

1. Research Associateships for advanced research by recent Ph.D.s. Applications are accepted and considered anytime throughout the year.

2. Visiting Fellowships for advanced research by senior scientists. Deadline for completed applications is November 1, 1995.

Further information can be obtained from the Scientific Personnel Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-0440.
POSTDOCTORAL POSITIONS (two) in studies of the pathophysiological mechanisms of alcoholic Wernicke-Korsakoff syndrome in rat models. Each project one 
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and inhibitory amino acids (Project one), routine and immunohistological 
techniques and quantitative image analysis (Project two). Send two copies of three references to: P. J. Langlais, Department of Psychology, SDSU, 
San Diego, CA 92182. FAX: 619-594-1332; Email: planglai@astrostoke.sdsu.edu. Reference Job No. 95-107. 
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perience required with in situ hybridization and immuno-
cytochemical approaches, primary/transformed cell 
culture, PCR amplification, and gene/cDNA cloning. Please 
send curriculum vitae and addresses and telephone num-
bers of three references to: Dr. Thaddeus G. Golos, 
Ph.D., Wisconsin Institute for Discovery, University of Wisconsin, 1223 Capitol Court, Madi-
son, WI 53715-1299. Email: golos@primate.wisc. 

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biology techniques including cloning, PCR sequencing, 
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viral vectors, transfection techniques, immunoprecipita-
tions, Westerns, Northern and Southern blots, and should 
be skilled in the culture of mammalian cells. Send cur-
riculum vitae with names of three references to: Dr. J. 
Houghton, Department of Molecular Pharmacology, 
St. Jude Children's Research Hospital, 332 North 
Lauderdale, Memphis, TN 38101. Equal Opportunity/ 
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RESEARCH POSITIONS 
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y. Candidates for postdoctoral fellowship training or for 
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and references to: Peter J. Sims, M.D., Ph.D., Associate 
Director, Research, The Blood Center of Southeastern 
Wisconsin, P.O. Box 2178, Milwaukee, WI 53201- 
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RESEARCH ASSOCIATE 
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ris, R. Parker, S. Peltz, G. Read, T. Rouault, A. Sachs, 
P. Samore, J. Schneider, A. Shyu, R. Silverman, 
Organizers: J. Harford, RiboGene; M. Katze, Uni-
versity of Washington; J. W. Leary. PAIMM, Abstracts, 
due August 31, 1995. Sponsor: Palo Alto Institute of 
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View, CA 94043. Telephone: 415-694-4996; Email: PAIMM@AOL.COM.

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