

PRODUCTS & MATERIALS

Monoclonal Antibodies

The R-Phycoerythrin conjugate of CD42a is a monoclonal antibody (mAb) directed against the IX subunit of the Ib-IX glycoprotein complex specific to human platelets and megakaryocytes. This conjugate can be used for the gating of platelets in the quantitation of platelet-associated immunoglobulins and in a panel of antibodies for platelet activation studies or the investigation of megakaryocytic leukemia. **Silenus Laboratories. Circle 138.**

A new mAb specific for human platelets activation-dependent granule external membrane protein can be used in functional studies, immunohistochemistry, and flow cytometry. **Antigenix America. Circle 139.**

Benchtop Photographic System

The Polaroid DS-34 Camera System can be used with almost any light-emitting source and includes virtually everything needed to photograph Coomassie blue and ethidium bromide-stained gels. The hand-held camera requires no focusing and features a four-element $f/4.5$ lens, variable shutter speeds, and a pistol grip shutter release. The complete system comes with flat face hood, filter holder, filters for photographing stained gels, and film. A wide selection of filter kits, interchangeable hoods, and instant films is available. **Sigma-Aldrich Techware. Circle 140.**

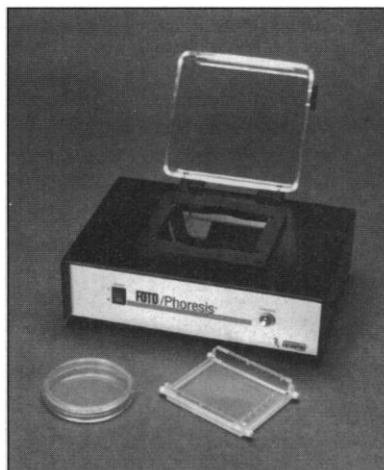
Unmodified Biomolecule Measurement

The KinExA Model 1 is a new instrument capable of measuring the binding characteristics of unmodified binding ligands, such as antibodies and antigens, with no need for immobilization on a solid phase or a labeled partner. The instrument is based on a patented technique that measures the free biomolecule in a solution of free biomolecule, free ligand, and biomolecule-ligand complex. Because the kinetic rate constants are measured in solution, spurious results

arising from diffusion to the solid phase species are eliminated. The instrument readily handles real world samples, including whole cells; allowing measurement in biologically significant matrices. **Sapidyne Instruments. Circle 141.**

Transilluminator for Mutagenesis

The FOTO/Phoresis UV Transilluminator for visualization and photography of DNA mini-gels has a new feature that allows its use for mutagenesis experiments and other appli-



cations. The new design includes an acrylic frame that perfectly positions not only a mini-gel, but also a standard 100-mm Petri plate in the ultraviolet (UV) light path. This frame also holds a camera with photographic hood in place while shielding the user from accidental exposure to UV light. A patented UV-blocking cover makes it possible to safely view the subject without wearing UV-blocking glasses. **Fotodyne. Circle 142.**

Drug Discovery Software

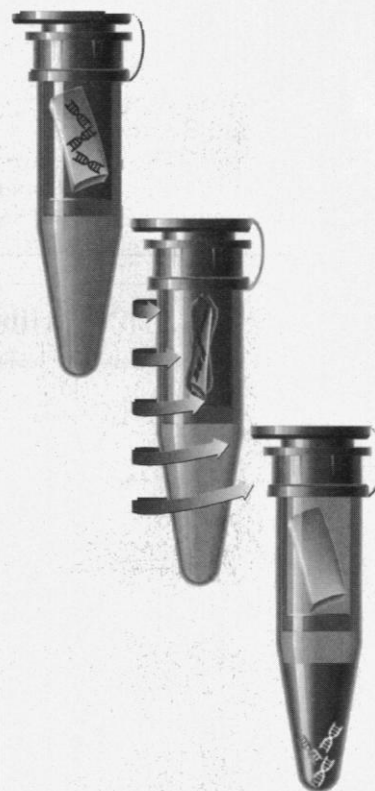
ChemDiverse, a new software tool for drug discovery, can reduce the number of compounds to be considered for synthesis and testing. Typically, the program can cut libraries of 200,000 different molecules to un-

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

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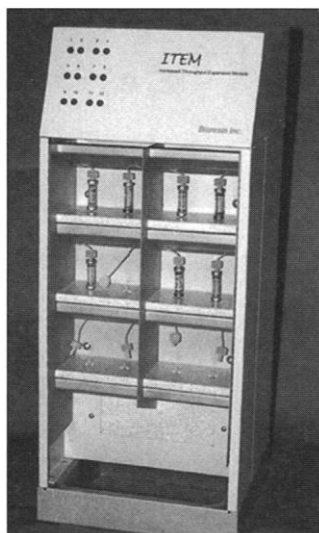
der 50,000. ChemDiverse explores the types and geometries of pharmacophores exhibited by the molecules in a library in order to minimize the number of molecules required to cover the maximum diversity of pharmacophores. **Chemical Design. Circle 143.**

Serum-Free Media

A line of products for insect cell culture and baculovirus expression vector system applications includes Express Five Serum Free Media, which boosts insect cell growth to densities exceeding 5×10^6 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.**

High-Throughput Nucleic Acid Synthesis

The ITEM is a high-throughput DNA synthesis module that can be integrated into most commercially available DNA synthesis



instruments. The ITEM provides low-cost, multi-column operation and it can increase the capacity of a DNA synthesizer from the standard two- or four-column set-up to 12 to 24 columns. **Bioresin. Circle 145.**

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/MSⁿ 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.**

SLP Reagent Set for the detection and measurement of peptidoglycan and β -glucan describes a kit for detection of Gram-negative and Gram-positive bacterial contamination and fungal contamination. **Wako BioProducts. Circle 148.**

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

Product Guide details a line of cell culture incubators, ultra-low temperature freezers, biological safety cabinets, LN₂ cryopreservation equipment, and orbital shakers. **Forma Scientific. Circle 150.**

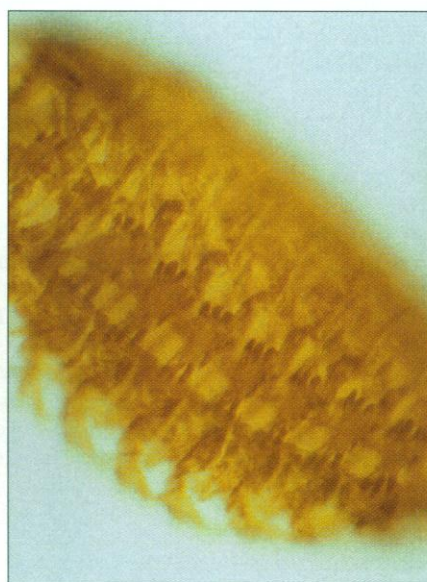
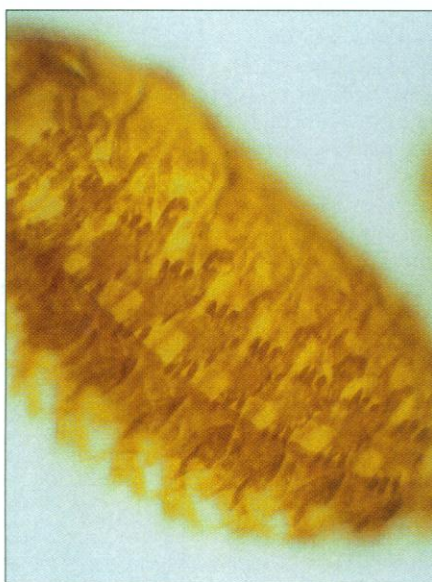
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3D pair of wild-type *Drosophila* embryo (stage 16/17) stained with MAb6D5 to visualize developing muscles.
Preparation provided by Dr. E. Giniger, Fred Hutchinson Cancer Research Center.

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How to Submit a Classified Ad:

Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Search Firms. *Science* cannot provide proofs of typeset line ads.

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Science reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

MEDICAL MICROBIOLOGY AND IMMUNOLOGY ASSISTANT OR ASSOCIATE PROFESSOR

The Department of Medical Microbiology and Immunology, Texas A&M University College of Medicine, invites applicants for tenure-track faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Appointments are for 12-months with a competitive salary, excellent facilities and substantial start-up funds. Faculty members will be expected to participate in team-taught medical and graduate level courses and establish a vigorous and independent research program. Individuals with a research focus on microbial genetics and/or pathogenesis are especially encouraged to apply, but an emphasis on other subdisciplines, including immunology, will be considered. The department is located on the main campus of Texas A&M University, is affiliated with the Institute of Molecular Pathogenesis and Therapeutics, and participates in campus-wide programs in molecular and cell biology, genetics, and others. Review of applicants will begin immediately and continue until positions are filled. Interested applicants should send a detailed curriculum vitae, a brief statement of research interests and goals, pertinent reprints, and a list of three references to: Van Wilson, Ph.D., Search Committee Chairman, Department of Medical Microbiology and Immunology, Texas A&M University, College Station, TX 77843-1114. Additional details on current faculty interests may be viewed on Internet: www.tamu.edu, under web servers. *Texas A&M University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

The Division of Cardiology invites applications for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level. The general focus of this position will be to work on myocardial ischemia within the context of a multidisciplinary team that will include molecular biologists, physiologists and biochemists and will use a variety of models (isolated cells, isolated hearts, anesthetized and conscious animals). The successful candidate will have demonstrated expertise in molecular biology and/or cardiac physiology and will join existing groups of investigators in molecular cardiology and physiology to conduct research focusing on the changes in gene expression associated with myocardial "stunning" and preconditioning. Applicants must hold an M.D. or Ph.D., have a minimum of three years of postdoctoral training, and be capable of establishing a strong independent research program. Please send curriculum vitae, statement of research interests, and names of three references to: Richard N. Redinger, M.D., Professor and Chairman, Department of Medicine, ACB, Third Floor, University of Louisville, Louisville, KY 40292. Please refer to PCN 01423. *Equal Employment Opportunity/Affirmative Action.*

DIRECTOR

Institute for Environmental Science, Engineering and Technology, University of Michigan

The College of Engineering of the University of Michigan has established the Institute for Environmental Science, Engineering and Technology and now seeks its first DIRECTOR. The Director will be an internationally recognized scholar in Environmental Science/Engineering who can lead the Institute into the 21st century. The Director will improve and expand the teaching of environmental science, engineering, and technology in the College of Engineering, and promote and develop new interdisciplinary research activities on the environment. The Director will seek and spearhead funding efforts directed toward the government, industry and the private sector in support of research activities on a broad range of environmental issues. The Director will report to the Dean of the College of Engineering and will be assisted by the Executive Committee of the Institute. The initial appointment will be a five-year term. The academic and scholarly qualifications of the Director will be such that he/she can be appointed as a tenured faculty member in one of the departments of the College and will participate, to the extent possible, in the educational programs of that department. It is essential that the Director has an earned Ph.D. in Engineering or the Physical Sciences and possesses academic and research experience related to the environment as demonstrated by publications and sponsored research. Prior administrative experience is desirable.

Applications for this position should be sent to: P. Shaneyfelt, College of Engineering Dean's Office, 2302 EECS Building, Ann Arbor, MI 48109-2116.

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 natural resource planning and management in Missouri. Desired qualifications are a M.S. or Ph.D. degree in natural resources, geography, or closely related field; a working knowledge of the application and management 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 Midwest Science Center in Columbia, Missouri. Interested candidates should send letter of interest, curriculum vitae, and three letters of reference to: Dr. Ronald Drobney, 112 Stephens Hall, University of Missouri-Columbia, Columbia, MO 65211. Telephone: 314-882-9420 or 314-882-3436. Closing date is July 31, 1995, or until a suitable candidate is found.

The University of Missouri is an Equal Opportunity Institution and complies with the guidelines set forth in the Americans with Disabilities Act of 1990.

ENDOWED CHAIR IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for the Eric L. and Lila D. Nelson ENDOWED CHAIR in the Department of Pharmacology at UC Irvine. We seek an internationally recognized scholar in molecular neuropharmacology with an outstanding record of research 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 with tenure at the University of California. Curriculum vitae, references, and a summary of research interests should be sent to: Nelson Endowed Chair Search Committee, Department of Pharmacology, College of Medicine, University of California, Irvine, Irvine, CA 92717. *University of California, Irvine is an Affirmative Action/Equal Opportunity Employer.*

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. However, exceptional 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 generous start-up support will be provided 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 the names and addresses of three references. Applications should be sent to: Dr. Frederick R. Maxfield, 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/Minorities/Female/Disabled/Veterans.*

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 Anesthesiology. Candidates should be committed 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, 1740 West Taylor, m/c 515, Chicago, IL 60612, 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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Director Nucleic Acid Chemistry R & D

Applications are invited for the position of Director of Nucleic Acid Chemistry. We seek a Ph.D. with a minimum of 5 years of postdoctoral or industrial experience in nucleic acid and oligonucleotide synthesis chemistries. Applicants must have broad experience in synthetic organic chemistry, heterocycle chemistry, and multistep synthesis of nucleoside and nucleotide analogues suitable for solid-phase oligonucleotide synthesis (DNA/RNA). Demonstrated proficiency in the modern analytical techniques (NMR, MS, HPLC, IR, UV-Vis) and the ability to oversee and direct the activities of Ph.D. and MS level scientists are required. The Director will be responsible for strategic and tactical implementation of the research program in support of PerSeptive's multimillion dollar oligonucleotide synthesis business. Other responsibilities include the generation of written reports, patents, scientific publications, as well as presentations at scientific meetings. Excellent written and verbal skills are needed and some travel is required. The successful candidate will report to the Senior Director of Organic Chemistry and salary will be commensurate with experience. PerSeptive Biosystems supplies chromatographic and synthesis tools to the life science research market and is a recognized leader in the areas of DNA/RNA/PNA and peptide synthesis.

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Please send your resume to: **ALZA Corporation, Human Resources Dept., Attn: Job# SC10714-SH, 950 Page Mill Road, PO Box 10950, Palo Alto, CA 94303-0802.**

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Research will investigate transcriptional regulation of protein kinase C isoenzymes in human skin and their participation in the regulation of cellular growth and differentiation. Studies will focus on cloning and characterization of the promoter for human PKC- η , 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, R6558, Ann Arbor, MI 48109-0528. Email: cmhill@e.imap.itd.umich.edu; FAX: 313-747-0076.** The University of Michigan is a non-discriminatory, Affirmative Action Employer.

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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 resident aliens. Send curriculum vitae/references to: **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 Rel/NF- κ B transcription factors, HIV/IL2 gene regulation, CD28 signaling, and cloning of JNK/SAPK kinase-binding proteins using yeast two hybrid system. Applications should be addressed to: **Dr. Tse-Hua Tan, Immunology Section M929, Baylor College of Medicine, Houston, TX 77030.**

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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 epithelial and endothelial cell growth is of particular interest. Experience in molecular biology and signaling cascade analysis is desirable. Salary of \$30,000 to \$40,000 commensurate with experience. Letter of application should include three references and copy(ies) of published work if available. Apply to: **Dr. George Sachs, c/o BACRA, WLA/VAMC, 11301 Wilshire Boulevard, Building 113, Room 324, Los Angeles, CA 90073. Open until August 15, 1995.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Positions are available to study the molecular mechanisms and immunoregulation of autoimmunity in arthritis, and the cellular mechanisms of pathological bone resorption. These projects include screening of mouse genome, knock out of genes, signal transduction and several aspects of molecular immunology. Recent Ph.D., M.D. or Ph.D./M.D. with experience either in cell biology, molecular biology, immunology, protein chemistry or genetic analysis is required. Send curriculum vitae and the names and addresses of three academic references to: **Prof. Tibor T. Glant, Department of Biochemistry, Rush Medical University at Rush Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.**

MOLECULAR IMMUNOLOGY

A **POSTDOCTORAL POSITION** is available for studies involving B cell differentiation *in vivo* and somatic mutagenesis of antibody 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 K902, National Jewish Center for Immunology and Respiratory Medicine, 1400 Jackson Street, Denver, CO 80206.**

POSTDOCTORAL POSITION available immediately. Molecular and biochemical investigation of airway remodeling 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. M. F. Murphy, Pulmonary Medicine Department, Deborah Heart and Lung Center, Browns Mills, NJ 08015. Equal Opportunity 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 applications 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 grant in the first five years. Requires a doctoral degree and strong research interests in human immunobiology, T-cell biology and molecular immunology. Candidates should send curriculum vitae and names of references to: **David D. Eckels, Ph.D., Senior Investigator, Blood Research Institute, The Blood Center of Southeastern Wisconsin, P.O. Box 2178, Milwaukee, WI 53201-2178. Equal Opportunity Employer/Minorities/Female/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. Expertise in channel physiology, patch clamp, oocyte expression and data analysis required. Submit curriculum vitae and three letters of recommendation to:

R. L. Barchi

**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.

POSITIONS OPEN

RESEARCH FELLOWSHIPS

NIH-POSTDOCTORAL FELLOWSHIPS available to study: 1) structure-function relationship and molecular biology of the human asialoglycoprotein receptor, 2) signal transduction abnormalities and cytokine gene regulation in murine lupus, or 3) antigen presentation and autoimmunity. U.S. citizenship or permanent resident alien status required. Cell and/or molecular biology experience desirable. Send letter, curriculum vitae, and three references to: **Dr. Michael A. Shia & Dr. Jerrold S. Levine, Renal Section, Boston University School of Medicine, 88 East Newton Street, Boston, MA 02118. FAX: 617-638-7326. Equal Opportunity Employer. Applications from women and minorities are strongly encouraged.**

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 "Identities." The Centre intends to organize three conferences: "Emotion in Social Life and Social Theory" (early July); "Identities and Convergences" (to be held jointly with the Research School of Pacific and Asian Studies, ANU and the Université Française de Pacifique, Nouméa in mid-July); and "Indigenous Rights, 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 those without special interest in the year's theme; the majority of Fellowships, however, will be awarded to those whose work is relevant to the annual theme and its conferences. Fellows are expected to work at the Centre, but are encouraged also to visit other Australian universities. Grants usually include a travel component and a weekly living allowance. Prospective applicants must obtain further particulars and application forms from the **Centre Administrator, Humanities Research Centre, The Australian National University, Canberra ACT 0200 Australia. FAX: 61 6 248 0054. Email: administration.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 ultrafast spectroscopy. Ph.D. in physics and four years of experience in construction of Ti:sapphire oscillators and high-power, ultrashort pulse amplifiers required. Two years of experience in high-field interactions in solids and laser ultrasonics required. Salary \$35,000 to \$40,000 depending on experience. Send 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 phytohormone receptors and ion channels expressed in *Xenopus* oocytes. Earned Master's degree in biological sciences, experience in electrophysiological techniques, effective communication and interpersonal relations skills required; Ph.D. preferred. Successful candidate will join a NASA/NSF network of investigators studying plant signal transduction. Salary dependent on experience. Send curriculum vitae and three current reference letters to: **Dr. Fedora Sutton, South Dakota State University, Plant Science Department, Box 2108, Brookings, SD 57007. FAX: 605-688-4024; Email: SuttonF@mg.sdstate.edu. Deadline: August 4, 1995. Affirmative Action/Equal Employment Opportunity Employer/ADA. Reasonable Accommodations: 605-688-6361 (TT/Voice: 605-688-4394).**

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 investigations, computer skills, and expertise in data acquisition and analysis required. Preference to candidates with background in pediatric pulmonary medicine or critical care research. Call **Dr. Sherry Courtney, 609-963-3981** or send curriculum vitae to: **Dr. Courtney at Cooper Hospital/UMC, c/o Suite 520, 3 Cooper Plaza, Camden, NJ 08103, Attn: Ronnie Mazzaccaro.**

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 our customers. There will also be interaction with the Sales/Marketing and Manufacturing departments to insure 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.**



EOE M/F/D/V

NMR SPECTROSCOPIST

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

We are seeking an individual to work in the area of development of multidimensional NMR techniques and its application to drug discovery research. Our Biological NMR group has a state-of-the-art facility with two 500 MHz spectrometers and one 400 MHz NMR spectrometer with micro-imaging accessories and a 200 MHz imaging instrument, with well equipped data analysis and electronics laboratory. The data analysis laboratory consists of a series of UNIX, SGI and Sparc workstations.

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.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

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
Santa Monica, CA 90401
Phone: (310) 458-2873
Fax: (310) 458-8074

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.

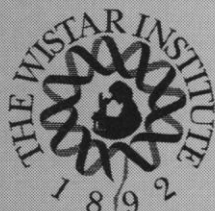
Responsibilities include structure elucidation of drug impurities and degradation products, characterization of chemical degradation pathways, application of NMR to solid-state and solution dynamics problems, maintenance of a state-of-the-art laboratory, development and implementation of new NMR and 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.

Upjohn

**THE WISTAR
INSTITUTE**
invites applications
for Assistant/
Associate Professor
level positions in
the following
research programs:



We are an equal opportunity employer.

- **Immunology** – We seek expertise in molecular immunology with emphasis on basic mechanisms involved in immune response and in signal transduction.
- **Tumor Biology** – We are looking for expertise in tumor biology with emphasis on the genetics of metastases and on genetics of brain tumors. Also desirable is expertise in growth mechanisms in breast and prostate cancer.

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.**

HYSEQ INC.

The Future of Biotechnology

The leader in state of the art DNA "sequencing technology by hybridization" is experiencing rapid growth. Immediate openings exists for qualified candidates interested in research on the cutting edge of genomics & computer science. If you have the following qualifications & are highly motivated, we would like to hear from you:

- Ph.D's with industrial or academic exp. in DNA cloning & analysis, DNA diagnostic methods or informatics & the ability to lead a group of researchers.
- Postdoctoral researchers with outstanding credentials wanted to work in DNA sequencing, superchip development & database analysis.
- Exp. laboratory scientists. MS/MA deg. in Molecular Biology pref. Exp. in nucleic acid analysis, especially in PCR, hybridization, subcloning & gel sequencing is desired.

Hyseq, Inc. offers highly competitive salaries, benefits & options. Please forward your resume, cover letter & salary history to Hyseq, Inc. Human Resources Dept. 670 Almanor Ave., Sunnyvale, CA 94086.

"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

J. Avruch
D. Bar-Sagi
A. Ben-Ze'ev
L.Y.W. Bourguignon
D.L. Brautigan
D.S. Coffey
P.T.W. Cohen
C.P. Downes

J. Downward
K.L. Gould
A. Hall
C.-H. Heldin
S. Jaken
D.M. Lublin
M. Mumby
J.T. Parsons

T. Pawson
M.A. Schwartz
J.D. Scott
S.J. Shattil
T.P. Stossel
N.K. Tonks
R. Vallee

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

GLOBAL CAREER OPPORTUNITIES

THE GARNETT PASSE AND RODNEY WILLIAMS MEMORIAL FOUNDATION SENIOR RESEARCH FELLOWSHIPS APPLICATIONS FOR 1996

The Foundation wishes to invite applications for a five-year senior research fellowship in Otolaryngology, or in related fields of biomedical science to commence in 1996. The fellowship will run along the lines of the Wellcome Senior Research Fellowships scheme.

Outstanding researchers who are either medically qualified or science graduates, with recognised post-doctoral achievements, seeking to establish a career and undertake research in an Australian or New Zealand academic institution are eligible to apply whether or not they are currently working in their respective country. Direct personal enquiries by possible candidates are welcome but formal applications must be submitted by the Head of Department in the University or Institute where the candidate will work. General enquiries may be directed to:

Mr. Julian Serong
Executive Officer
The Garnett Passe and Rodney Williams
Memorial Foundation
Pelham House
165 Bouverie Street
Carlton, Victoria, 3053.
Ph: 61 3 349 2622
Fax: 61 3 349 2615

The salary offered will be in the Senior Lecturer range, according to age and experience and on appropriate academic scales. In addition, a sum of A\$20,000 or equivalent is available per annum for ancillary support.

Nominations must be submitted on the appropriate application form. Closing date for the award is 31st October, 1995. Application forms can be obtained from:

Mr. Julian Serong
Executive Officer
The Garnett Passe and Rodney Williams
Memorial Foundation
Pelham House
165 Bouverie Street
Carlton, Victoria, 3053.
Ph: 61 3 349 2622
Fax: 61 3 349 2615

UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE & HEALTH SCIENCES

The Faculty of Medicine & Health Sciences was established by Royal Decree in 1986 with the clear remit of becoming an International center of excellence both in terms of teaching and research. To this end, we are seeking the services of a

MEDICAL SOCIOLOGIST

within the DEPARTMENT OF PSYCHIATRY

at either Professor/Associate Professor or Assistant Professor level.

Applicants must possess a PhD degree or an equivalent higher professional academic degree from an accredited university or institution of higher learning.

The Faculty admits students directly from high school and the appointee should be experienced in teaching both Introductory and Medical Sociology. The teaching is delivered in modules which integrate contributions from Sociology, Psychology, Family Medicine, Community Medicine, Psychiatry and other clinical disciplines. Experience of such curricula, knowledge of local cultures and a relevant research background are considered advantages. Fluency in English is essential as this is the language of instruction.

Benefits for the successful candidate include a competitive tax-free salary, free accommodation, furniture allowance and assistance with children's tuition fees up to a maximum of 15% of the gross annual salary. Also provided are an interest free car loan and cash-in-lieu of equivalent annual return air fares to the country of residence. An award of 8.6% of the gross annual salary is paid after each year of service. In addition, the Emirates offers a highly attractive lifestyle with all the amenities of any modern society.

For more information, please contact the Chairman, Professor Mohammed Abou-Saleh on Tel. +971 3 664660. Formal applications can be made by forwarding a comprehensive curriculum vitae, a list of publications, copies of certificates and the names and addresses of three current referees to:-

The Director of Personnel, Faculty of Medicine & Health Sciences,
United Arab Emirates University, P O Box 17666, Al Ain,
United Arab Emirates.
Fax No + 971 3 657649

Applications will be closed 4 weeks after the date of publication.



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).

中央研究所 研究員募集 化学部門

ドイツ・バイエル社は海外の研究拠点として、アメリカに次いで今春日本に中央研究所を設立しました。この研究所では、アレルギー及び自己免疫疾患分野を担当。ドイツ・アメリカ等との学術交流が頻繁なため、国際感覚でリーダーシップのとれる優秀な研究者を募集します。

職務内容 1. コンピュータによる薬物デザイン (Molecular Modeling) の研究
2. 医薬品探索のための有機合成化学分野の研究 (プロジェクトリーダー)

応募資格 上記関連分野の研究者で Ph.D または同等の知識・経験のある方。
製薬研究所・海外ホスピタル経験者歓迎。
日本語・英語必須。30~35才位迄。

化学・アレルギー・免疫系新卒1996年以降、継続して募集します。
問合せ歓迎。日本語・英語必須。

勤務地 バイエル薬品中央研究所

(関西文化学術研究都市木津南地区/近鉄奈良駅より車10分)

待遇 弊社規定により優遇。借上社宅制度有。入社・面談日応談。

応募書類 履歴書 (日・英)、研究概要 (日・英各 A4 1枚程度) 及び主要論文のコピーを下記宛にお送り下さい。

選考 1次/書類審査 2次/面接他

連絡先 大阪市淀川区宮原3-5-36 新大阪第2森ビル 〒532
バイエル薬品(株)リクルーティング部係
担当/野本・藤本 TEL 06-398-1145 (コレクトコールをご利用下さい)



バイエル薬品株式会社

※弊社は全ての社員及び応募者に公平に対処致します

THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:-

Lectureships in Biochemistry (Human Genetics/Oncology) (Ref. 95/069(665)/2)

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\$412,980 - 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 gratuity.

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 BIOCHEMISTRY & MOLECULAR BIOLOGY

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. 20, 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 Crombrughe, 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 I. 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 O. Armitage
January 15-21, 1996; Keystone, Colorado

Application/Abstract Deadline: Sept. 27, 1995

Molecular Biology of HIV - 600

Organizers: B. Matija Peterlin and Bryan Cullen
January 17-23, 1996; Taos, New Mexico

Hepatitis C and Beyond - 300

Organizers: Richard H. Decker and Robert H. Purcell
January 23-29, 1996; Burlington, Vermont

Tissue Engineering - 200

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 Lawn, Christine Seidman, Robert Rosenberg 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 Cahalan, 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 Karlsson, Keith Humphries and Paul Tolstoshev
February 4-10, 1996; Taos, New Mexico

Cell Migration - 250

Organizers: Michael P. Sheetz, Rick Horwitz and Doug Lauffenburger
February 4-10, 1996; Santa Fe, New Mexico

Neural Peptides - 250

Organizers: Richard E. Mains, James F. Battey and Robert A. Steiner
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 - 200

Organizers: Martin J. Murphy, Alan M. Gewirtz and Si Lok
February 16-22, 1996; Taos, New Mexico

The Hematopoietic Microenvironment - 200

Organizers: Armand Keating and Joel Greenberger
February 16-22, 1996; Taos, New Mexico

Exploring and Exploiting Antibody and Ig Superfamily Combining Sites - 600

Organizers: Edgar Haber and James S. Huston
February 22-28, 1996; Taos, New Mexico

Molecular Helminthology: An Integrated Approach - 250

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 Goodenough, Pamela Cowin and Peter Bryant
March 1-7, 1996; Lake Tahoe, California

Viral Genome Replication - 300

Organizers: Paul Ahlquist, 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. Welles
March 11-17, 1996; Park City, Utah

The Extracellular Matrix of Plants: Molecular, Cellular and Developmental Biology - 300

Organizers: Andrew Staehelin, 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. Cidlowski and Ronald Evans
March 17-23, 1996; Lake Tahoe, California

Transcriptional Mechanisms - 600

Organizers: Thomas Shenk and Danny Reinberg
March 17-23, 1996; Taos, New Mexico

Lymphocyte Activation - 800

Organizers: Susan L. Swain, B.J. Fowlkes 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, Hidsaki Nagase and Christine Debouck
March 25-31, 1996; Keystone, Colorado

Immunopathogenesis of HIV Infection - 800

Organizers: Robert Schooley, Bruce D. Walker and Denis Henrard
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 Seedorf
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

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and clinical cardiovascular research and clinical care throughout the Medical Center, Dr. Valentin Fuster, Chief of the Division of Cardiology and Director of the Cardiovascular Institute, will serve as Associate Director of the Cardiovascular Biology Center. The Mount Sinai Medical Center is located on the Upper East Side of Manhattan, adjacent to Central Park. Please forward C.V. and three references to: **Barry S. Collier, M.D., Chair, Dept. of Medicine, The Mount Sinai Medical Center, One Gustave L. Levy Place, Box 1118 (SCI), New York, NY 10029-6574.** An equal opportunity employer.

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RESEARCH MICROBIOLOGIST

DHHS/PHS/CDC, Division of HIV/AIDS, Laboratory Investigations Branch, is seeking applicants for the position of Chief, Developmental Technology Section. This Section is responsible for conducting research in the development of new assays for the detection of HIV infection; collaborating with industry to develop and evaluate new technology; and providing laboratory and logistical support for long-term Division projects in Cote d'Ivoire, Thailand and selected foreign countries. Qualifications: The basic requirements are a degree in microbiology, biology, chemistry or basic medical science. An advanced degree in microbiology and experience in HIV diagnostics, including molecular techniques, is desirable. Candidates must be U.S. citizens since this is a career position. Salary: Civil Service salary range for GS-14 through GS-15 is \$60,452-\$71,107 per annum. Salary and benefits are commensurate with education and experience. How to apply: Interested persons should send their CV plus publications to Ms. Janie Oddy, CDC-HRMO, 4770 Buford Highway, Mailstop K15, Atlanta, GA 30341-3724. *CDC is an equal opportunity employer and provides a smoke-free environment.*

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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:

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Faculty Search (MP)
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Oregon Health Sciences University
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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.



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Paul Liu, M.D., Ph.D., Bldg. 49, Rm. 3A18: Localization of the core binding factor CBFB, and study of its function and role in acute myeloid leukemias.

Jennifer Puck, M.D., Immunologic Genetics Section, Bldg. 49, Rm. 3W14: Mapping inherited human immune disorders, cloning associated disease genes, and studying the function of their gene products and potential gene transfer therapy.

Melissa Rosenfeld, M.D., Vector Development Section, Bldg. 49, Rm. 3A76: Construction of human artificial chromosomes and development of efficient methods for transferring intact large DNA molecules into mammalian cells.

Danilo Tagle, Ph.D., Bldg. 49, Rm. 3A18: Biology of the Huntington's Disease and Ataxia-telangiectasia genes, including cellular expression, mouse models and immunohistochemistry.

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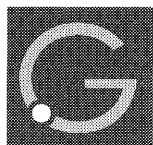
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The University of Memphis is one of two comprehensive doctoral granting public institutions in Tennessee, with 6 colleges and 3 professional schools, enrolling approximately 20,000 students, of which 4300 are in graduate programs. The University of 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. Klesges, 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: bklesges@msu.vx1.memphis.edu

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NOTICE

HUMAN LIVER FOR SCIENTIFIC INVESTIGATION NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES

The Liver Tissue Procurement and Distribution System (LTPADS) is a National Institute of Health (NIH) service contract to provide human liver from regional centers for distribution to scientific investigators throughout the United States. These USA regional centers have active liver transplant programs with human subjects approval to provide portions of the resected pathologic liver for which the transplant is performed. Therefore frozen or fresh tissue is available from subcontractors for the usual forms of childhood and adult cirrhosis, fulminant liver failure, chronic rejection, and certain inborn errors of metabolism. Human pathologic liver prepared according to the investigator's specifications provides the opportunity to verify if animal liver investigations are relevant to human liver pathophysiology. The preparation of these livers has been excellent for the usual molecular biologic techniques for the past eight years. "Normal" liver specimens may be requested, however the supply is appropriately much more limited and completion of proposal requests take a longer time than for most pathologic liver specimens. NIH investigators are given preference for identical specimen requests.

Further information and proposal forms for interested investigators can be obtained from:

Harvey L. Sharp, M.D.
Principal Investigator, LTPADS
c/o Mankwe Ndosi
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University of Minnesota Hospitals
Minneapolis, Minnesota 55455
Telephone: (612) 624-1133
Fax: (612) 624-2682

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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 geophysical 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:

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

Further information can be obtained from the Secretary, Visiting Scientists Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-0440.

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POSTDOCTORAL POSITIONS (two) in studies of the pathophysiological mechanisms of alcoholic Wernicke-Korsakoff syndrome in rat models. Project one examines the role of histamine and glutamate; Project two alcohol versus thiamine deficiency. Experience required with *in vivo* microdialysis, HPLC analyses of excitatory amino acids (Project one), routine and immunohistological techniques and quantitative image analysis (Project two). Send curriculum vitae and names of three references to: P. J. Langlais, Department of Psychology, SDSU, San Diego, CA 92182. FAX: 619-594-1332; Email: planglai@sunstroke.sdsu.edu. Reference job No. F95-107. Affirmative Action/Equal Employment Opportunity/Title IX Employer.

POSTDOCTORAL POSITION available to examine the expression of MHC molecules in the primate placenta. Responsibilities will include immunocytochemical analyses of MHC molecules and cytokines at the maternal-fetal interface, and regulation of MHC gene expression in primate stem cells, embryos, and trophoblasts using protein, mRNA and transcriptional approaches. Experience required with *in situ* hybridization and immunocytochemical approaches, primary/transformed cell culture, PCR amplification, and gene/cDNA cloning. Please send curriculum vitae and addresses and telephone numbers of three references to: Dr. Thaddeus G. Golos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715-1299. Email: golos@primate.wisc.edu. Affirmative Action/Equal Opportunity Employer.

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POSTDOCTORAL RESEARCH ASSOCIATE position is available for NIH-funded research for a recent Ph.D. graduate to study molecular mechanisms of drug-induced apoptosis. This will involve the tumor suppressor gene p53 and molecular events downstream of p53 including Bax/Bcl-2 family members that regulate cell death or survival responses in neoplastic cells following the initiation of a potentially toxic insult. Applicants should have a strong background in molecular and cellular biology techniques including cloning, PCR sequencing, directed mutagenesis, engineering constructs, use of viral vectors, transfection techniques, immunoprecipitations, Western, Northern and Southern blots, and should be skilled with the culture of mammalian cells. Send curriculum 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/Affirmative Action Employer.

RESEARCH POSITIONS

The Immunohematology/Immunochemistry Research Program of the Blood Research Institute seeks qualified individuals (M.D., Ph.D., and/or M.D.-Ph.D.) with research interests in vascular biology plus experience/expertise in protein chemistry, molecular biology, or cell biology. Candidates for postdoctoral fellowship training or for staff appointment will be considered. Please send résumé 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 53201-2178. Equal Opportunity Employer/Minorities/Female/Disabled/Veterans.

POSITIONS OPEN

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PROPOSALS

The National Organization for Rare Disorders (NORD) seeks grant proposals for funding biomedical research projects directly related to the development of orphan drugs and orphan devices. Clinical trials of proposed orphan therapies, which clearly meet the criteria for orphan status (less than 200,000 affected persons in the United States) and which give promise of early regulatory approval will be given priority. Interested applicants should submit a one-page letter of intent by October 1, 1995. Funding will begin January 1, 1996. Grants will be up to \$50,000 per year for a maximum of two years. Investigators must clearly justify why NORD funds should be used in lieu of other opportunities for funding. NORD does not award indirect costs. Letters of intent should be directed to: Jess G. Thoene, M.D., Chairman, Scientific Advisory Board, National Organization for Rare Disorders, P.O. Box 8923, New Fairfield, CT 06812-8923.

SYMPOSIUM

SYMPOSIUM: Translation & Stability of mRNA. October 8 to 10, 1995, Cathedral Hill Hotel, San Francisco, California. Speakers: E. Baker, H. Blau, R. Braun, A. Geballe, P. Green, J. Harford, J. Hershey, A. Hinnebusch, M. Katze, R. Lehmann, M. Mathews, D. Morris, R. Parker, S. Peltz, G. Read, T. Rouault, A. Sachs, P. Sarnow, R. Schneider, A. Shyu, R. Silverman, N. Sonenberg, O. Uhlenbeck, S. Warren, M. Wickens. Organizers: J. Harford, RiboGene; M. Katze, University of Washington; J. W. Larrick, PAIMM. Abstracts due August 31, 1995. Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 415-694-4996; FAX: 415-694-7717; Email: PAIMM@AOL.COM.

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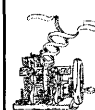
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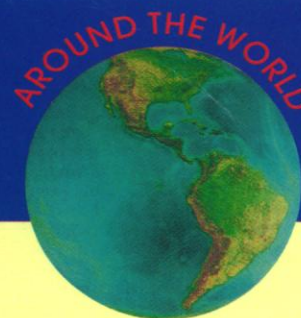
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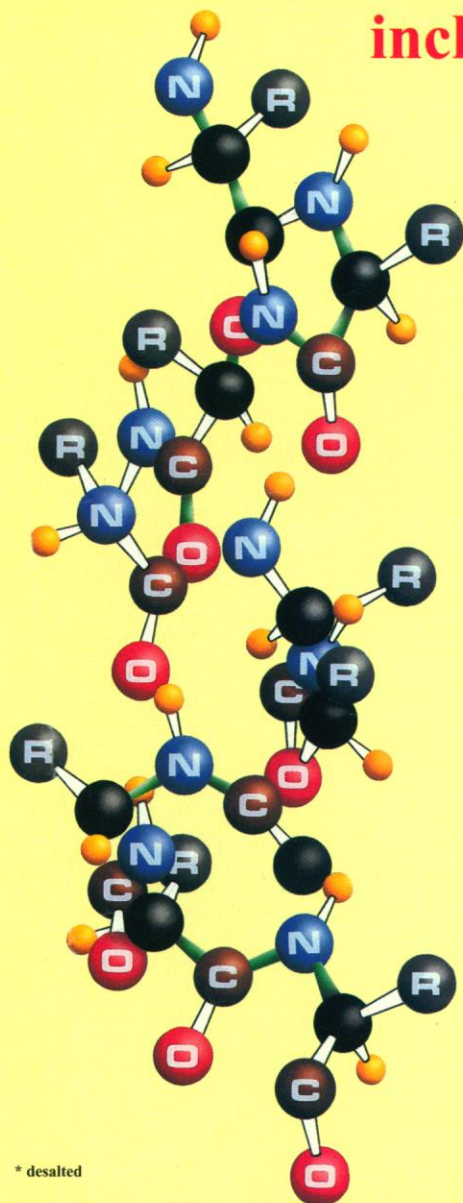
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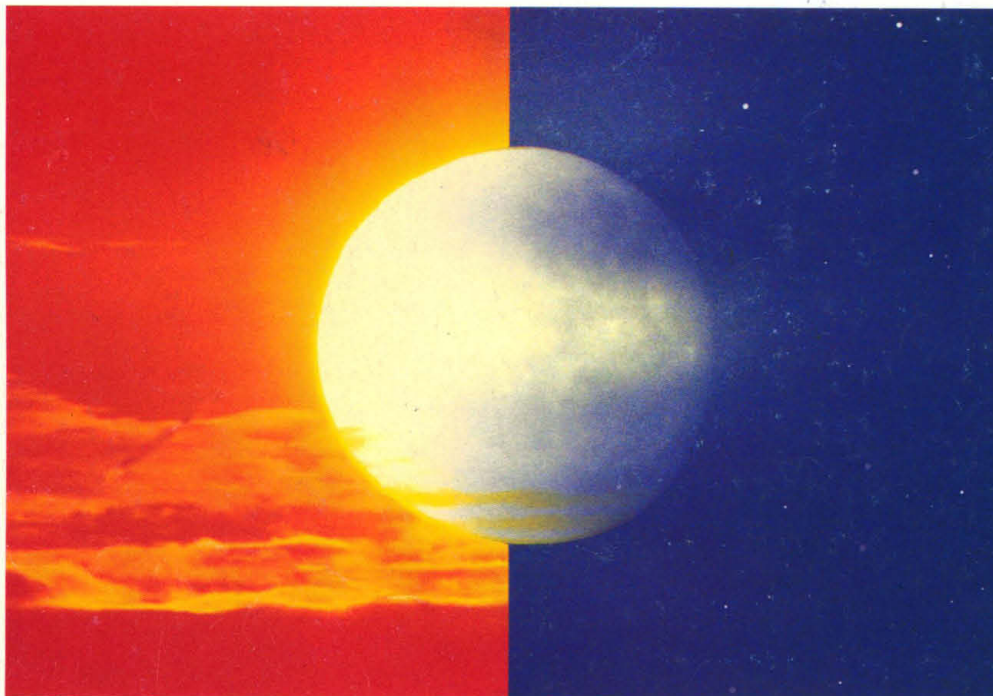
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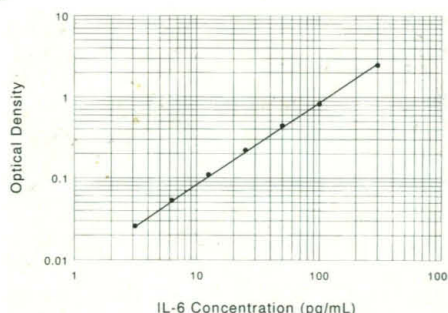
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