

Technical Calculators

Two new technical calculators are faster with more functions for less money than their predecessors, the HP 48SX and HP 48S, which they replace. Both of the new calculators, the HP 48GX and HP 48G, have built-in three-dimensional plotting, which was previously unavailable in handheld calculators. The HP 48GX has 128 kilobytes of random access memory (RAM) and accepts plug-in cards containing memory or programs that expand its functionality. The HP 48G has 32 kilobytes of RAM and all the features of the HP 48GX except the memory-expansion card capability. **Hewlett-Packard. Circle 140.**

Silver Staining Kit

This kit contains all the reagents for silver staining, a sensitive technique for detecting protein in polyacrylamide gels. The reagents are optimized for a rapid (35 min) and reliable mini-gel protocol that results in clear backgrounds. **LabLogix. Circle 141.**

ESI and MALDI Spectrometer

The BioAPEX mass spectrometer combines the capabilities of electrospray ionization (ESI) and matrix-assisted laser desorption ionization (MALDI) for the analysis of biological materials. The instrument provides both high mass resolution and accurate mass measurements for molecules with molecular weights up to 20 kD. ESI is useful for analysis of very

high molecular weight samples via the multiple charge states produced and serves as an effective liquid chromatography/mass spectrometry interface. The MALDI technique is preferred for samples such as carbohydrates and glycopeptides. **Bruker Instruments. Circle 142.**

Molecular Graphics Software

Version 3.5 of the three-dimensional (3D) molecular graphics package Ball & Stick for the Macintosh has many enhanced features. Users can create movies in which colorful 3D models of molecular structures rotate, drift, zoom, or track the results of a molecular dynamics simulation. The program makes use of Apple's QuickTime animation and compression technology to produce highly compact image sequences. The new version features enhanced printing, a structure library with more than 200 fragments, anti-aliasing for 8-bit graphics, annotation of graphics, enhanced perspective, stereo zooming, and faster calculation of bond lists. The software runs on any Macintosh computer version 6.07 or higher with 1 megabyte of random access memory. **Cherwell Scientific. Circle 143.**

Tetrazolium Compound

MTS is a new tetrazolium compound for use in nonradioactive cell growth assays and cytotoxicity assays. MTS reduces to a water-soluble formazan that eliminates the need for solubilization steps using volatile organic solvents. Other water-soluble tetrazoliums must be used promptly after dilution, but MTS can be frozen for long-term storage. **Polysciences. Circle 144.**

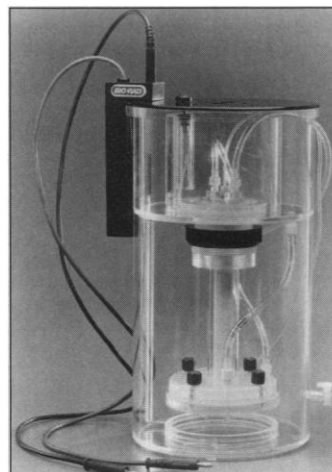
Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement 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.

Neutralization Antibodies

Neutralization antibodies are available to interleukin-10, erythropoietin, macrophage inflammatory protein-1 β , RANTES, and tumor necrosis factor binding protein. The polyclonal antibodies are tested in vitro for maximum specificity and effective neutralization activity. The antibodies have also been qualified for use in protein immunoblotting and enzyme-linked immunosorbent assay applications. They are supplied as highly purified immunoglobulin fractions, lyophilized for long-term storage stability. They are selected for low endotoxin activity and do not have azide or other preservatives present. **R & D Systems. Circle 145.**

Cell for Preparative Electrophoresis

The Model 491 Prep Cell purifies proteins, peptides, and glycoproteins from complex mixtures by continuous elution



electrophoresis. Conventional gel electrophoresis buffer systems and media are used with the unit. Using SDS-polyacrylamide gel electrophoresis (SDS-PAGE) or native PAGE, the Model 491

Prep Cell can isolate specific components from complex mixtures containing micrograms to 200 mg of total sample. Up to 5 mg can be resolved. Using SDS-PAGE, the cell can isolate molecules that differ in molecular weight by 2%. Using non-denaturing PAGE, the cell can isolate molecules that differ in charge by 0.1 pH unit. **Bio-Rad Laboratories. Circle 146.**

Literature

Software for Science Review is a catalog of more than 450 scientific and technical software products. **SciTech. Circle 147.**

Poretics: For Membranes You Can Count On is a brochure on the uses of polycarbonate track-etch screen membranes. These membranes, with their smooth, flat surface, nonspecific binding, and nonshedding structure, are superior to conventional cellulosic filters in many applications. Major uses include tissue and cell cultures, air and water analyses, cytology, chemotaxis, environmental research and measurements, optical and electron microscopy, blood analysis and filtration, general filtration, forensic sciences, and microorganism studies and analysis. **Poretics Corp. Circle 148.**

Spectroline Super-Performance UV Transilluminators describes a line that provides continuously variable intensity control from 100% down to 20% of the typical peak 312-nm irradiance of 8000 $\mu\text{W cm}^{-2}$. Model TVL-312A provides both the highest 312-nm ultraviolet (UV) intensity and the longest sample preparation time. **Spectronics Corp. Circle 149.**

The DIG System User's Guide for Filter Hybridization gives practical hints for the effective use of this system, including protocols for digoxigenin labeling and detection of DNA, RNA, and oligonucleotide probes. **Boehringer Mannheim. Circle 150.**

AAAS EMPLOYMENT EXCHANGE

SCIENCE INNOVATION '93 *The Conference on New Research Techniques*

Hynes Convention Center, Room 302

Boston, MA - August 6-10, 1993

HOURS OF OPERATION

6 August 1993, Friday

12:00 PM - 6:00 PM

Employer/Candidate Registration and Interview Scheduling

7 - 9 August 1993, Saturday-Monday

7:30 AM - 6:00 PM

8:00 AM - 5:30 PM

8:30 AM - 12:45 PM

Employer/Candidate Registration and Interview Scheduling
Interviews

Career Development Seminars: *(Saturday and Sunday only)*

"Career Change Issues: From Academia to Industry"

presented by Ed Bocko, Protran Resources, Inc.

"Career Development for Scientific Professionals with
Emphasis on Skill Building/Team Approach"

presented by Kym Goddu, Pfizer, Inc.

"Job Opportunities of Tomorrow: Projections on Hiring
Needs in Biotechnology"

presented by Ed Bocko, Protran Resources, Inc.

10 August 1993, Tuesday

9:00 AM - 1:00 PM

Interviews only

EMPLOYER BENEFITS

- ☒ Access to hundreds of top-notch candidates' resumes cross-referenced by discipline.
- ☒ Copy of the Employment Exchange Bulletins (pre- and post-meeting).
- ☒ On-site interview facilities and scheduling services at no additional charge.
- ☒ Unlimited position postings.
- ☒ Special rates for Science Innovation '93 exhibitors, nonprofit organizations, and AAAS Corporate Members.

CANDIDATE BENEFITS

- ☒ FREE enrollment for AAAS members. Low \$10 fee for nonmembers.
- ☒ Current position openings in a variety of disciplines and experience levels.
- ☒ Access to full descriptions of all available positions.
- ☒ On-site Career Development Seminars.
- ☒ On-site interview facilities.
- ☒ Year-round Resume Referral Service.
- ☒ Employment Exchange Only fee for nonconference attendees. (\$25 members; \$50 nonmembers).

If you are presently in the job market, a student anticipating graduation in 1993, or if you are an employer with positions to be filled, and wish to take advantage of our efforts on your behalf, contact: **Jacquelyn Roberts, Manager, AAAS Employment Exchange, 1333 H Street, NW, Washington, DC 20005. Phone: 202-326-6737.**

Science

PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

- **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.
- **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.
- **Mail or FAX materials to:**
Science Classified Advertising
1333 H Street, N.W., Room 814
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816
- **Rates:** Ads are \$42 per line; \$420 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads.
- **Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +44 223 302067 (telephone) or +44 223 302068 (FAX).
- **Credit Cards:** *Science* accepts MasterCard and VISA. Discount does not apply to credit cards.
- **Cancellations:** Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

DISPLAY PERSONNEL ADVERTISEMENTS

For rates and info. about fractional display ads (all ads 1/2 page and larger), contact:

Recruitment Advertising
Deborah Cummings
Telephone: 202-326-6541

Janis Crowley, Recruitment
Advertising Manager
Telephone: 212-496-7704
FAX: 202-682-0816

Annemarie Vis
European Recruitment Advertising
Telephone: +44 223 302067
FAX: +44 223 302 068

CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it.

POSITIONS OPEN

VISITING ASSISTANT PROFESSOR SABBATICAL LEAVE REPLACEMENT

The Department of Biological Sciences at the University of Nevada, Las Vegas, seeks an assistant professor (P82029) for a one-year position in microbiology, starting in September 1993. The candidate, who will hold a Ph.D. in microbiology or a related field, will be expected to teach courses in the microbiology curriculum, including courses in her/his area of expertise. Opportunity for research is available in existing microbiology faculty laboratories. The salary range is \$30,000 to \$32,000. Send curriculum vitae, description of teaching and research interests, and at least two letters of reference to: Department of Biological Sciences, c/o Dr. Warren Burggren, University of Nevada, Las Vegas, Box 454004, 4505 Maryland Parkway, Las Vegas, NV 89154-4004. Applications will be reviewed as they are received.

The University of Nevada, Las Vegas, is an Equal Opportunity/Affirmative Action Employer. UNLV employs only U.S. citizens and aliens authorized to work in the United States.

MOLECULAR ELECTROPHYSIOLOGIST

The Department of Medicine, Section of Cardiology, invites applications for a tenure-track position at the rank of ASSISTANT or ASSOCIATE PROFESSOR beginning as soon as possible. Applicants should have an M.D. or Ph.D. degree and a record of accomplishment in basic research in the area of molecular electrophysiology. Individuals with research experience in the areas of the molecular and cellular biology of excitable tissues will be given preference. Excellent departmental resources including newly designed laboratory space in the cardiovascular research center are available. Written applications including curriculum vitae, three letters of recommendation, and a description of research interests should be sent by September 17, 1993, to: Jeffrey M. Leiden, M.D., Ph.D., Professor of Medicine and Pathology, and Chief, Section of Cardiology, University of Chicago, 5841 South Maryland Avenue, BRH B608 MC6080, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer and strongly encourages females and minorities to apply.

VASCULAR BIOLOGIST

The Department of Medicine, Section of Cardiology, invites applications for a tenure-track position at the rank of ASSISTANT or ASSOCIATE PROFESSOR beginning as soon as possible. Applicants should have an M.D. or Ph.D. degree and a record of accomplishment in basic research in the area of vascular biology. Individuals with molecular and cellular research programs focusing on endothelial and smooth muscle cell biology will be given preference. Excellent departmental resources including newly designed laboratory space in the cardiovascular research center are available. Written applications including curriculum vitae, three letters of recommendation, and a description of research interests should be sent by September 17, 1993, to: Jeffrey M. Leiden, M.D., Ph.D., Professor of Medicine and Pathology, and Chief, Section of Cardiology, University of Chicago, 5841 South Maryland Avenue, BRH B608 MC6080, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer and strongly encourages females and minorities to apply.

TECHNICAL INSTRUCTOR POSITION

Massachusetts Institute of Technology (MIT), Department of Biology. Applicants are sought for a technical instructor position to assist in teaching an Introductory Biology course. Applicants must have broad knowledge of cell and molecular biology as well as good skills in communication and interpersonal relationships. The 12-month position involves training and supervising graduate and undergraduate teaching assistants, assisting in the writing of problem sets and exams, and preparing course materials. Applicants must have a Master's degree (Ph.D. preferred) in Biology, Biochemistry, or Cell Biology with experience teaching undergraduates. The successful candidate will have a strong desire to teach undergraduates in a dynamic and evolving course. A two-year commitment is preferred. Applications should be sent to: Mr. Kenneth Hewitt, Personnel Officer, MIT, Room B19-230, 77 Massachusetts Avenue, Cambridge, MA 02139. M.I.T. is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.

POSITIONS OPEN

A (non-tenure-track) position as a RESEARCH ASSISTANT PROFESSOR in the general area of cell mechanics is available. Liposomes and blood cells in a resting state and white blood cells in phagocytosis and locomotion are to be studied. The applicant should be skilled in the use of conventional light and fluorescent microscopy and the micromanipulation and micropipet aspiration techniques that are used to mechanically deform individual blood cells and liposomes. The applicant should be able to use the equations of fluid and solid mechanics to model the deformation and flow of cells and membranes. Applications should be sent by September 1, 1993, to: Robert M. Hochmuth, Professor and Chairman, Department of Mechanical Engineering and Materials Science, Duke University, Durham, NC 27708-0300.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY NEUROPHARMACOLOGY/NEUROBIOLOGY

The Department of Pharmacology at the University of Tennessee, Memphis, invites applications for a tenure-track position at the Assistant or Associate Professor level, available immediately. Candidates should possess the Ph.D. or M.D. degree, with postdoctoral training in biochemical and molecular approaches to problems in neuropharmacology and/or neurobiology. Faculty are expected to develop strong, extramurally funded research programs and to participate in the teaching activities of the Department, especially in the area of autonomic and neuropharmacology. Candidates for Associate Professor should have an established funded research program. The Department of Pharmacology has active research programs in lipid metabolism, molecular biology, neuroendocrinology, and autonomic, cancer, cardiovascular, endocrine and neuropharmacology. *Applications from minority candidates and women are strongly encouraged.* Please submit curriculum vitae, a description of research interests and future plans and the names of three references to: Dr. William R. Crowley, Chairman, Neuropharmacology Search Committee, Department of Pharmacology, The University of Tennessee, Memphis, College of Medicine, 874 Union Avenue, Memphis, TN 38163. The search will continue until the position has been filled. The University of Tennessee, Memphis is an Equal Employment Opportunity/Title IX/Section 504/ADA/Affirmative Action Employer.

THE RICHARD STOCKTON COLLEGE OF NEW JERSEY

GEOLOGY/ENVIRONMENTAL SCIENCES, One-Year INSTRUCTOR (A.B.D.) or ASSISTANT PROFESSOR (Ph.D.). Teaching includes Mineralogy, Petrology and participation in team-taught Physical Geology for students in Geology, Environmental Studies, and Marine Science. Field orientation of the program requires significant field experience. The Richard Stockton College of New Jersey is a 5000-student undergraduate institution in the New Jersey Pine Barrens. Current salary range \$27,430 to \$34,860. May be higher. Screening begins immediately. Send letter of application, résumé, three letters of recommendation, and evidence of completion or expected date of completion of Ph.D. to: Barbara Byrne, Dean of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey, AA29, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The University of South Carolina, Columbia, invites applications and nominations for the position of DEAN of the College of Science and Mathematics. The Dean of the College of Science and Mathematics is responsible for administering the College's budget of approximately \$17.5 million in state funding and \$21 million in outside support. The College consists of seven departments and several institutes. Applicants should send a letter of application and a complete résumé to: Dr. Ralph E. White, Chairman of the Science and Mathematics Dean Search Committee, Department of Chemical Engineering, Swearingen Engineering Center 2C13, University of South Carolina, Columbia, SC 29208. Telephone: (803) 777-6060; FAX: (803) 777-8265. The University of South Carolina is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.



Public Invitation to Participate In a New Research and Development Project on “Nonferrous Metallic Materials Recycling Technology”

Announced by the New Energy and Industrial Technology Development Organization on July 23, 1993.

In order to promote the research of global environmental technology and industrial technologies, the New Energy and Industrial Technology Development Organization (NEDO) would like to inform all interested companies and research organizations regarding the research and development project described below. This new project is being undertaken as part of the Research and Development Program on Industrial Technology for Protection of the Global Environment and The National Research and Development Program of the Ministry of International Trade and Industry of Japan.

Theme of the Research Project

“Research of Nonferrous Metallic Materials Recycling Technology”

Outline of the Research Work to be Entrusted

This project, entitled “Research on Nonferrous Metallic Materials Recycling Technology”, will be implemented in order to promote the utilization of substitute energy for oil and reduce the load on the global environment by producing high quality metals from nonferrous metallic scrap.

The research to be entrusted as part of this project includes research on technologies for high level melting processes, high level refining processes, utilization of slag, etc. as well as research on a total system for integrating such technologies.

Procedures for Application

(1) Qualification Criteria

All companies or research organizations who meet the following qualification criteria may submit an application to participate in the above projects:

1. The applicant must have previous research and development experience in the field covered by or related to the project and possess the organizational structure, human resources and research facilities required to carry out the project work.
2. The applicant must be in sound financial condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
3. The applicant must be able to comply with NEDO's instructions, if such are necessary, to fully carry out the project work.
4. The applicant must have attended the explanatory meeting held by NEDO as set forth in item (2) below or been represented at the meeting by a responsible agent or representative who is capable of accurately conveying the contents of the meeting in detail.

(2) Explanatory Meeting

An explanatory meeting will be held on the date shown below in order for NEDO to fully explain the details of the project's research and development work to be entrusted and the application documents to be submitted. All companies or research organizations who are interested in submitting an application to participate in a project are required to attend this meeting or to send an agent or representative to attend on their behalf. Japanese will be the only language used during the meeting.

Date: August 10, 1993

Time: 14:00 to 15:00

Place: NEDO's Head Office

Sunshine 60 Building, 28th Floor, Room 280

1-1, Higashi-Ikebukuro 3-chome

Toshima-ku, Tokyo 170

(3) Further information

For further information regarding the research and development work to be entrusted under the above project, please contact NEDO by telefax as follows: New Energy and Industrial Technology Development Organization

Contract Division, Accounting Department

28th Floor, Sunshine 60 Building

1-1 Higashi-Ikebukuro 3-chome

Toshima-ku, Tokyo 170 Japan

Telefax: 08-5992-1184

POSITIONS OPEN

The University of New Mexico (UNM) Cancer Center wishes to recruit a Ph.D. or M.D. faculty member (ASSISTANT or ASSOCIATE PROFESSOR) studying molecular aspects of hematopoiesis, especially involving stem-cell and/or cytokine biology. This investigator will interact with other researchers studying the control of cytokine and protein kinase gene expression, activation of receptor-mediated signalling pathways and the regulation of adhesive interactions in hematopoietic cells. Interactions with the Cancer Center's clinical research programs, especially ongoing trials of high-dose chemotherapy with cytokine support, will be encouraged. Resources at UNM include a regional leukemia cell repository, a regional blood bank and outstanding facilities for molecular biology, protein chemistry and flow cytometry. Send letters of interest, curriculum vitae and the names of 3 references to: **Robert G. Strickland, M.D., Chairman, Department of Medicine, University of New Mexico School of Medicine, 2211 Lomas NE, ACC 5th floor, Albuquerque, NM 87131.** Affirmative Action/Equal Opportunity Program. Women and minorities encouraged to apply.

DIRECTOR, CENTER OF MARINE BIOTECHNOLOGY, Maryland Biotechnology Institute, University of Maryland System. The Maryland Biotechnology Institute (MBI) invites nominations and applications for the Director for the Center of Marine Biotechnology (COMB). Established in 1985, COMB is devoted to the molecular biology and genetics of the growth, development, disease management and reproduction of marine eukaryotes; marine microbial products and processes; interrelationships among marine organisms, and microorganisms from extreme environments. COMB currently has 19 faculty and total staff of 75. Additional growth is expected after completion of new Baltimore headquarters in 1994. **Director's responsibilities:** development of COMB including research programs, faculty recruitment, technology transfer, and development of interactions with the biotechnology industry. Director must be internationally recognized leader in marine biotechnology or related discipline with experience in research program development and administration. Candidates should have demonstrated basic research ability with qualifications appropriate to appointment to rank of Full Professor. Nominations and applications should be submitted by September 30, 1993, to: **Dr. Donald F. Boesch, Chairman, COMB Director Search Committee, 4321 Hartwick Road, Room 538, College Park, MD 20740.**

DEPARTMENT HEAD

The Department of Microbiology, Pathology and Parasitology in the College of Veterinary Medicine, North Carolina State University (NCSU), is seeking exceptionally well-qualified applicants for the position of Department Head to lead a department of 25 faculty with major programs in infectious diseases, pathology, toxicology, immunology and parasitology. The Head will be responsible for administering instructional programs, research, and veterinary clinical service. Candidates should have an outstanding background in research, a strong commitment to teaching and service, demonstrated leadership and administrative skills, and be eligible for appointment as a full professor. Applications received by September 15, 1993, will be given full consideration, although the search will proceed until the position is filled. Send curriculum vitae and request that 3 letters of recommendation be sent directly to: **Chair of the Search Committee: Dr. John G. Vandenbergh, Department of Zoology, N.C. State University, Raleigh, NC 27695-7617.**

NCSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Virginia Mason Research Center (VMRC), Immunology and Diabetes Program, Seattle, Washington. Postdoctoral research training in the genetic and cellular basis of autoimmune diseases. Positions are currently available in the laboratories of: **Janice S. Blum**—Cell biology of antigen processing and presentation. **Patrick J. Concannon**—Genetic linkage studies of insulin-dependent diabetes or Ataxia-telangiectasia. **Eric C. B. Milner**—V_H utilization in the autoimmune repertoire.

Minorities and women are encouraged to apply. VMRC is an Equal Opportunity Employer.

Send curriculum vitae and references to: **Virginia Mason Research Center, Attention: Personnel, 1000 Seneca Street, Seattle, WA 98101.**

POSITIONS OPEN

DEAN OF OCEANIC AND ATMOSPHERIC SCIENCES

OREGON STATE UNIVERSITY (OSU) invites nominations/applications for the position of Dean, College of Oceanic and Atmospheric Sciences. This is a 12-month, full-time appointment. The Dean provides leadership to a graduate college with 84 scientists, 103 students, and an annual budget of \$20 million. Candidates should have a distinguished record of academic achievement possessing a Ph.D. or equivalent, and administrative expertise or demonstrated potential to provide effective management and leadership to a dynamic college. Research facilities include an ocean-going research vessel, a supercomputer center, and state-of-the-art analytical instrumentation. The College conducts research and instructional programs in Oceanography, Geophysics, Atmospheric sciences and Marine Resource Management. The successful candidate will be awarded an academic rank of Professor, tenured for nine months. Salary is dependent upon qualifications. Applications, including curriculum vitae, should be received by October 1, 1993. This position will remain open until filled. *OSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to the needs of dual-career couples.* Applications and nominations should be sent to: **Prof. Nicklas G. Pisis, Chairperson, Dean Search Committee, College of Oceanic and Atmospheric Sciences, Oceanography Administration Building 104, Oregon State University, Corvallis, OR 97331-5503.**

DEPARTMENT HEAD

Department of Chemistry The University of Massachusetts at Amherst

The University of Massachusetts at Amherst seeks applications and nominations for the position of Professor and Head of the Department of Chemistry. Applicants should have an outstanding research record and demonstrated ability to provide leadership for a Ph.D.-granting institution with 34 faculty members. Current areas of research strength include analytical, biological, inorganic, organic and physical chemistry. The position will involve leadership in research and curriculum development; a considerable number of faculty appointments are planned as well as renovation and occupation of additional space and facilities. An attractive salary, commensurate with qualifications and experience, and benefits package are offered. Inquiries, applications, and nominations should be addressed to: **Professor Peter C. Uden, Search Committee Chairman, Department of Chemistry, Lederle Graduate Research Tower A, University of Massachusetts, Amherst, MA 01003-0035.** Applications should include full curriculum vitae, description of research interests, and names and addresses of at least three professional references. Consideration of applicants will commence on October 15, 1993, and will continue until a suitable candidate is found. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

SUNY HEALTH SCIENCE CENTER AT SYRACUSE

FACULTY POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

We invite applications for two tenure-track positions. While we expect to make appointments at the **ASSISTANT PROFESSOR** level, candidates at higher levels also will be considered. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Applicants must have a Ph.D., M.D. or equivalent degree, postdoctoral experience, demonstrated research productivity and a commitment to excellence in teaching medical and graduate students. Send letter of application (with curriculum vitae and summary of research plans) and have three letters of reference forwarded to: **Dr. Harvey S. Penefsky, Chair, Search Committee, Department of Biochemistry and Molecular Biology, State University of New York Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210.** Review of applications will begin November 1, 1993, and continue until the positions are filled.

An Affirmative Action/Equal Employment Opportunity/ADA Employer.

More than 150,000 people paid to see your ad in **SCIENCE**. Classified Advertising Department telephone: 202-326-6555. FAX: 202-682-0816.

POSITIONS OPEN

POSTDOCTORAL POSITION available fall 1993 to join a research group involved in the characterization of novel G protein-coupled receptors identified by large scale human DNA sequencing. Applicants must have a Ph.D. and a strong background in molecular biology, pharmacology or biochemistry. Send curriculum vitae, a letter indicating your research interests and three references to: **Dr. Claire M. Fraser, Department of Molecular and Cellular Biology, The Institute for Genomic Research, 932 Clopper Road, Gaithersburg, MD 20878.**

An Equal Opportunity Employer.

POSTDOCTORAL POSITION in cell and molecular biology available immediately to investigate the response of primary keratinocytes and transformed squamous cells to growth factors. Experience in cell biology and molecular biology required. Send curriculum vitae and names of three references to: **Maryann Donovan-Peluso, Ph.D., University of Pittsburgh, Department of Pathology, S709 Scaife Hall, Pittsburgh, PA 15261.** Telephone: (412) 648-9659, FAX: (412) 648-1916.

POSTDOCTORAL POSITION available for research on genetic control of low-density lipoprotein phenotypes under the direction of **Dr. David Rainwater**. Research will involve developing techniques and conducting studies to characterize LDL phenotypes in pedigreed populations. Candidates will have a Ph.D. or M.D. Two years of laboratory experience and a biochemistry background preferred. Annual salary between \$23,691.20 and \$33,280.00 commensurate with relevant experience. Interested individuals should send curriculum vitae, brief statement of research interests, and names, addresses and telephone numbers of three references to: **Personnel Manager (340), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147.**

Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITIONS to begin during the next 8 months. **Projects include biochemical and molecular genetic analyses of:**

- (1) Cytochrome biogenesis (e.g., transport, assembly—see *G & D*, 6:268-283; *PNAS* 90:2179-2183)
- (2) Gene regulation (*Mol. Micro.* 6:1049-; 8:903-)
- (3) Biodegradable polymer biogenesis (e.g. plastics)

Send curriculum vitae and names of 3 references to: **Dr. Robert Kranz, Biology Department, Box 1137, One Brookings Drive, Washington University, St. Louis, MO 63130.**

POSTDOCTORAL POSITION in chemical carcinogenesis to develop immunologic techniques for quantitation of carcinogen exposure. Development of monoclonal antibodies and immunohistochemical detection of DNA adducts.

Send curriculum vitae and names of three references to: **Dr. Regina Santella, Columbia University School of Public Health, 650 West 168th Street, New York, NY 10032.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately to study the biological fate of toxicants in fish. Responsibilities: HPLC method development, analysis of biologic samples, and Pharmacokinetics/toxicokinetics modeling. A Ph.D. in Pharmacokinetics or Pharmacology/Toxicology required. Send résumé and three references to: **Chair, DBPS, College of Pharmacy, Xavier University of Louisiana, 7325 Palmetto Street, New Orleans, LA 70125.** **JOB# TMYP9301.**

POSTDOCTORAL POSITION—available immediately. Molecular biologist/microbiologist to isolate, identify and characterize microbes capable of degrading herbicides (and other xenobiotic compounds). Analyze genetic, molecular and biochemical aspects of the regulation of degradation pathways for herbicides and other xenobiotics. Engineer genes from microbes to allow their expression in higher plants. Submit curriculum vitae and names of three references by August 20, 1993, to: **Dr. Donald P. Weeks, 211 Biochemistry Hall, University of Nebraska-Lincoln, Lincoln, NE 68583-0718.** **FAX: (402) 472-7842.** *UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity. We assure reasonable accommodation under the ADA.*



They're men. They're women. They're black. They're white. They're Asian. They're Hispanic. They're Argonne Scientists and Engineers. And yes, they're just what America needs.

When it comes to energy, when it comes to the environment, America needs leadership. And America is turning to Argonne National Laboratory.

Argonne plays a key role in the Department Of Energy's national laboratory system. Our research involves some of the most important energy and environmental issues.

We see our scientists, engineers and technicians as a vital national resource. Your work can make a world of difference.

Argonne makes available some of the finest world class research tools in operation today. This includes a powerful source of pulsed neutrons for materials research and the first superconducting, heavy-ion accelerator.

Argonne is building on more than 40 years of expertise in nuclear energy research. Our most recent work involving breeder reactor technology has resulted in the development of an Integral Fast Reactor that promises to become the world's safest, cleanest and most economical power source. The Integral Fast Reactor will alleviate nuclear waste disposal problems by burning its own long-lived radioactive waste.

During 1992/93, teams of scientists and engineers will continue to oversee construction of the nation's brightest x-ray source, The Advanced Photon Source. The facility will eventually accommodate more than 300 scientists performing

up to 100 experiments simultaneously.

Argonne is a national center of expertise for applied research efforts in superconductivity and in research on magnetically levitated vehicle systems. Our Advanced Computing Research Facility is one of the world's leading centers for research in parallel computing.

Argonne is a leader in many other important areas of scientific endeavor. Environmental impact. Biological research. Materials research and more. You'll shape the future.

As a research professional at Argonne, you'll be called on to help develop the next generation of scientists. Argonne provides internships for hundreds of undergraduate and graduate students throughout the summer and also during the academic year.

Bring your special interests to Argonne. Be a part of our special interest group.

We're creating new opportunities for experienced scientists, engineers and technicians.

If you want to work among the best...if you want to do your best, we would like to know more about you.

For more information on our career opportunities, write to: Walter D. McFall, Employment and Placement, Box SCI, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439. Argonne is an equal opportunity/affirmative action employer.



EXECUTIVE DIRECTOR

Research Information Management

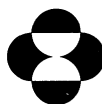
Merck, the world's leading pharmaceutical organization, seeks an individual to assume responsibility for scientific information resource management within its worldwide research operations. Overseeing a group of approximately 150 people, this executive will direct the program for the design, planning, implementation, and operation of information systems that support drug design and development efforts, including the organization, processing, dissemination and storage of information in ways that foster innovation.

The position requires a person with a strong, clear vision of the use of computers and information systems within a medical/scientific research environment. Since this individual will work closely with the company's corporate computer resources group, as well as with a broad client base, candidates should have excellent team building skills and strong communication skills.

Candidates should have a science background and formal training in modern computers and information science. A Ph.D. is preferred. Individuals should be able to point to demonstrated success in managing significant information technology focused operations and have a strong personal track record of achievement.

Merck offers an attractive compensation and a generous benefits program. Resumes should be forwarded to:

**Personnel Director
MRL Human Resources WP 42-2
Merck Research Laboratories
P.O. Box 4
West Point, PA 19486**



MERCK

Research Laboratories

EEO/AA/V/Employer



LA TROBE UNIVERSITY BUNDOORA, VICTORIA, AUSTRALIA

CHAIR IN BIOCHEMISTRY

This Chair in the School of Biological Sciences will become vacant on the retirement of the foundation professor, Professor B.A. Stone, at the end of 1993.

The Department of Biochemistry currently has eight full-time and two part-time academic staff. It is expected that an additional lectureship will become available following the appointment to the Chair. There are five research fellows and three adjunct academics. The Department is responsible for the teaching of Science students at second, third and Honours years and second year Agricultural Science students. Staff in the Department have established research strengths in protein and enzyme purification, DNA-drug interactions, signal transduction in plants, biochemistry of malaria, mitochondrial protein import, molecular chaperones, plant cell wall chemistry and biochemistry and polysaccharide hydrolase structure-function relationships.

Applicants must be able to demonstrate outstanding scholarship and research achievements of international standing in the discipline of biochemistry, and a capacity for academic leadership. The appointee will be expected to contribute to teaching at all levels, and serve an initial term of at least three years as chairperson of the department.

The University reserves the right not to make an appointment or to make an appointment by invitation.

Salary: \$A77,900 per annum.

Further particulars are available from the Secretary to the Selection Committee (61 3 479 1295; confidential fax: 61 3 471 0369). Informal enquiries to Professor R. Parish, Dean of Biological Sciences, telephone 61 3 479 2228.

Applicants are requested to provide the following: a full curriculum vitae, the names and addresses of three referees, a statement of past teaching, research and professional activities, a statement of current teaching and research activities, and a statement of intended future research goals.

The application, marked "In Confidence" should be sent to the Secretary of the Selection Committee, Chair in Biochemistry, La Trobe University, Melbourne, Australia 3083, by 17 September 1993, quoting reference number ACA640.

La Trobe University is an Equal Opportunity and Affirmative Action Employer and provides a smoke free work environment.

Linton Bishop Professorship in Human Genetics Department of Genetics and Molecular Medicine Emory University Medical School

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

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

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

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

Douglas C. Wallace, Ph.D.
Robert W. Woodruff Professor of Molecular Genetics
Chairman, Department of Genetics and Molecular Medicine
1462 Clifton Road, Room 403
Emory University School of Medicine
Atlanta, GA 30322

*Emory University is an Equal Opportunity/
Affirmative Action Employer.*

University of Illinois College of Medicine at Urbana-Champaign Assistant/Associate Professor of Pathology

The Department of Pathology at the University of Illinois College of Medicine at Urbana-Champaign (UICOM-UC) invites applications for an academic pathologist at the Assistant/Associate Professor level. Applicants must have an M.D. or M.D./Ph.D. and should preferably be Board certified or Board eligible in anatomic and/or clinical pathology. Individuals with research interests in neuropathology are particularly encouraged to apply; however, applicants with other interests will receive full consideration. The successful applicant will be expected to develop an independent research program and participate in medical student pathology education. Opportunities are also available for service work at the affiliated hospitals.

The University of Illinois at Urbana-Champaign (UIUC) has excellent research facilities which include the Beckman Institute for Advanced Science and Technology which emphasizes integrated research in the neural, cognitive and computational sciences. Facilities for confocal microscopy; genetic engineering; hybridoma and flow cytometry; molecular graphics; a National Center for Supercomputing Applications; and an NSF Science and Technology Center for Magnetic Resonance Technology for Basic Biological Research are available. A dominant feature of UICOM-UC is the Medical Scholars Program in which students study for an M.D. and another degree, usually the Ph.D.

Starting date and salary are negotiable. In order to ensure full consideration, applications should be received by August 16, 1993. Applicants are requested to send a curriculum vita, a summary of research interests, and three letters of reference to:

**Dr. James A. Weyhenmeyer, Search Committee Chair
College of Medicine at Urbana-Champaign
University of Illinois
190 Medical Sciences Building
506 South Mathews Avenue
Urbana, Illinois 61801
Telephone (217) 333-4883**

The University of Illinois is an AA/EEOE.

GROUP LEADER

Mouse Molecular Genetics Program

The Biology Division of the Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking an experienced investigator to head a group in molecular mouse genetics. The candidate must be familiar with the utilization of mutant resources for addressing problems in developmental genetics and genome analysis. A knowledge of both classical genetics and modern molecular techniques is essential. A PhD is required in molecular biology, genetics, cell biology, or biochemistry, along with significant post-doctoral experience. The successful candidate should have a demonstrated potential to attract extramural support. Core funding will be provided at a level commensurate with the candidate's qualifications.

The ORNL Biology Division supports a large mouse genetics facility with numerous mutant stocks. An interactive group of scientists is conducting research in mutagenesis (agent-induced, insertional, and targeted), developmental genetics, and genome mapping. Additional Division programs include protein engineering, structural biology, and investigations into health effects of energy production and utilization for the Office of Health and Environmental Research within the Department of Energy. Among divisional support functions are cytogenetics, cryopreservation, and flow cytometry.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems, Inc., for the US Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume by September 30, 1993, to: L.B. Russell, Biology Division, Oak Ridge National Laboratory, Dept. SCI-806, P.O. Box 2009 Oak Ridge, TN 37831-8077.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.

The logo for Oak Ridge National Laboratory (ORNL) consists of the lowercase letters "ornl" in a bold, stylized, sans-serif font.

*Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology...through rapid product development and innovative commercialization strategies. We currently have opportunities for the following professionals in **Analytical Research and Development:***

Research Associates

Candidates for this position must have a BS/MS in Chemistry or related field with 2-5 years' experience in amino acid analysis and protein sequencing. Computer experience desirable. **(Job Code OA-SC-JC-029)**

Candidates for this position must have a BS/MS in Chemistry, Biochemistry or related field with experience in the characterization of peptides and proteins. Familiarity with general methods for the separation and analysis of proteins is necessary. Experience in computerized data analysis, HPLC, CD, Fluorescence and other spectroscopic methods is highly desirable. **(Job Code OA-SC-JC-030)**

Postdoctoral Fellows

Candidates must have a recent Ph.D. in Biochemistry, Protein Chemistry or related discipline with experience in analytical protein chemistry. **(Job Code OA-SC-JC-031)**

At Amgen, we provide our employees with the freedom to manage their projects, regulate the quality of work and make decisions to further company goals. We back this freedom with meaningful challenge and responsibility, as well as a compensation and benefits package that reflects the level of our commitment. If you're interested in one of these positions, please submit your resume or curriculum vitae, for confidential consideration, to: **Amgen Inc., Staffing, Job Code (see above), Amgen Center, Thousand Oaks, CA 91320-1789.**

The Amgen logo features the word "AMGEN" in a bold, uppercase, sans-serif font. The letters are closely spaced, and the "A" and "M" are particularly prominent. A registered trademark symbol (®) is located at the end of the word.

We are an equal opportunity employer M/F/D/V.

POSITIONS OPEN

NATIONAL INSTITUTES OF HEALTH MOLECULAR CYTOGENETICIST With Digital Imaging Analysis Experience

The Laboratory of Biology of the Division of Cancer Etiology, National Cancer Institute, is accepting applications for a position for a biologist with a Ph.D. and extensive experience in research. Salary range is \$42,500 to \$47,500.

The successful candidate will be expected to: (1) Conduct original research in the area of cancer cytogenetics, particularly in solid tumors and in experimentally produced cell lines or tumor-derived lines obtained by transfection with recombinant viral DNA, tumor viruses, and chemical carcinogens. Experience in rodent and human tumor cytogenetics and digital imaging microscopy is required. (2) Serve as an independent investigator for studies in molecular cytogenetics of cervical, ovarian, and breast cancers with a special emphasis on chromosomal and interphase localization of single-copy cancer-related genes, cosmid probes, and specific-chromosome DNA libraries as well as on computer-aided comparative genomic hybridization. (3) Effectively run Laboratory's digital imaging system and image analysis in both fluorescent field- and confocal-digital microscopy as well as to provide consultations in matters involving the use of computer-assisted digital microscopy, 3-D rendering, and digital image analysis in areas of Laboratory's interests other than molecular cytogenetics. (4) Provide consultation to the Laboratory's program in matters involving the pathogenesis of cervical, ovarian, and breast cancers.

Candidates with the following qualifications will be given preference: (1) Biologist with a Ph.D. and a background in cell biology, cytogenetics, oncology, and virology with a successful record in molecular cancer genetics and carcinogenesis. (2) Postdoctoral research experience in cancer cytogenetics, high-resolution cytogenetic analysis, viruses, and chemical carcinogen interaction with mammalian chromosomes. (3) Strong interest and experience in digital imaging systems and image analysis in both fluorescent field- and confocal-digital microscopy and its use in molecular cytogenetics, including comparative genomic hybridization. (4) Broad knowledge of molecular mechanisms of chromosome rearrangements. (5) Extensive experience in tissue culture and transfection procedures. Experience with cell hybrids and microcell transfer is desirable. (6) Strong interest in the development of research program for establishing assays for detection of specific tumor markers and gene expression on intact cells and tissue preparations. (7) Ability to effectively communicate in English both orally and written. (8) Relevant publications in specialized scientific journals.

If interested, please send curriculum vitae by August 6, 1993, to: **Dr. Joseph A. DiPaolo, Ph.D., National Institutes of Health, Building 37, Room 2A19, 9000 Rockville Pike, Bethesda, MD 20892.** *U.S. citizenship required. NIH is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION IN MOLECULAR AND CELLULAR NEUROBIOLOGY for studies concerning molecular mechanisms controlling expression of the basic fibroblast growth factor gene in neuronal and glial cells, and the function of bFGF in the development of the nervous system utilizing cell culture and transgenic animal models. Experience in recombinant DNA technology, gene transfection, DNA-protein interactions and/or analysis of DNA topology preferred. Send curriculum vitae and names of three references to: **Dr. M. K. Stachowiak, Laboratory of Molecular Neurobiology, Division of Neurobiology, Barrow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013.**

POSTDOCTORAL POSITION. Available immediately to study DNA adduct formation by chloroethylnitrosoureas and the role of DNA damage and repair in cellular resistance of brain tumors to these agents. Experience in measurement of DNA adducts is desirable. Send curriculum vitae, reprints, names of three references to: **W. J. Bodell Ph.D., University of California, Box-0806, San Francisco, CA 94143.** *UCSF is an Equal Opportunity Employer.*

SCIENCE recruitment ads reach thousands of scientists in all disciplines, worldwide. **Classified Advertising telephone: 202-326-6555. FAX: 202-682-0816.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Postdoctoral positions available for studies exploring signal transduction mechanisms involving tyrosine kinases, cdc2-related proteins. PI-3-K, calcineurin, and other regulatory molecules. Send curriculum vitae, brief summary of research interests, and names of 3 references to: **Dr. Jerry H. Wang or Dr. Donald J. Fujita, Department of Medical Biochemistry, The University of Calgary, 3330 Hospital Drive N.W., Calgary, AB, Canada T2N 4N1. FAX: (403) 283-4841.**

MOLECULAR BIOLOGY OF EPITHELIAL DIFFERENTIATION POSTDOCTORAL POSITIONS

Positions are available to study molecular regulation of cytoskeletal and cell surface molecules during epithelial differentiation, and the biochemical basis of mesenchymal-epithelial interactions involved in hair follicle stem cell activation. Background in molecular cloning and/or protein chemistry is required. Send curriculum vitae and names of three references to: **Henry Sun, Ph.D., Epithelial Biology Unit, Departments of Dermatology and Pharmacology, New York University Medical School, 550 First Avenue, New York, NY 10016. Telephone: (212) 263-5685, FAX: (212) 263-8561.**

POSTDOCTORAL POSITION AVAILABLE FOR GENE THERAPY FOR LUNG CANCER

NIH-funded position is available immediately to develop gene therapy strategies for pulmonary malignancies. Successful applicant will join interdisciplinary group involved in Gene Therapy for Cancer within the Interventional Genetics Program of the UAB Cancer Center. Support provided through NHLB-sponsored program in Basic Mechanisms of Lung Disease at the University of Alabama at Birmingham. *U.S. citizens and permanent residents only* with a recent Ph.D., M.D. or D.V.M. send: curriculum vitae and the names of three references to: **Dr. David T. Curiel, Director, Interventional Genetics Program, University of Alabama at Birmingham, G20 Wallace Tumor Institute, 1824 Sixth Avenue South, Birmingham, AL 35294-3300.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** is available immediately to study the regulation and function of UV-inducible genes in relevant cell systems, including melanoma and XP. A background in molecular biology is advantageous, but highly motivated individuals with experience in related fields are encouraged to apply. Send curriculum vitae and the names of three references to: **Dr. Ze'ev Ronai, Molecular Carcinogenesis Program, American Health Foundation, 1 Dana Road, Valhalla, NY 10595.** *Equal Opportunity Employer, M/F/H/V.*

POSTDOCTORAL POSITION MOLECULAR/BIOCHEMICAL PHARMACOLOGY

Postdoctoral position available in biopharmaceutical company to study neurosteroid interactions with GABA_A receptor. Experience in neuroreceptor pharmacology, molecular biology, or protein chemistry desired. Send curriculum vitae and names of three references to: **Dr. Jon Hawkinson, Biochemical Pharmacology, Cocosys, Inc., 213 Technology Drive, Irvine, CA 92718.**

POSTDOCTORAL POSITION

A one-year position exists to study the *in vitro* growth characteristics of Salmon Leukemia virus, SLV, a newly described retrovirus of chinook salmon. Studies are focused on obtaining viral proteins for immunodiagnostic purposes. Position is available November 1, 1993. Experience in viral cell culture required, experience in retrovirus and molecular biology desirable. Submit curriculum vitae and names of reference to: **Dr. Fred Markham, Department of Pathology and Microbiology, Atlantic Veterinary College, University of Prince Edward Island, 550 University Avenue, Charlottetown, PEI, Canada, C1A 4P3. (Telephone 902-566-0854, FAX: 902-566-0958).**

POSITIONS OPEN

POSTDOCTORAL POSITION IN GENE REGULATION

University of California, San Francisco

To study the regulation of the parathyroid hormone-related protein gene in developmental systems and in malignant cells. Both regulation of the promoter and regulation of mRNA stability by the 3'-UTR will be studied. *U.S. citizenship required.* Send curriculum vitae and 3 references to: **Gordon J. Strewler, M.D., VAMC (111N), 4150 Clement Street, San Francisco, CA 94121.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study the use of viral vectors for cancer gene therapy. Experience with the use of vaccinia, adeno- or adeno-associated viral vectors is required. Send curriculum vitae and three references to: **Dr. Sunil K. Chatterjee, Markey Cancer Center, University of Kentucky, 800 Rose Street, Lexington, KY 40536-0093.** *The University of Kentucky is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION UNIVERSITY OF ARIZONA HEALTH SCIENCES CENTER

Postdoctoral position available September 1, 1993, to participate in studies on hormonal and developmental regulation of gene expression in heart or in the formation of valvular progenitors with **Drs. Raymond Runyan and Eugene Morkin.** Recent Ph.D. in Biochemistry, Microbiology, Physiology, Cell Biology, Pharmacology or a related field with a strong molecular biology research background preferred. Opportunity to develop independent project. Salary negotiable.

Send curriculum vitae and names of three references to:

**Sharon Solomon, Administrative Secretary
University Heart Center
1501 North Campbell Avenue
Tucson, AZ 85724**

Applications will be accepted until August 15, 1993, or until the position is filled.

An Equal Employment/Affirmative Action Employer. Women and minorities are encouraged to apply.

Two **POSTDOCTORAL POSITIONS** are available immediately to study the biochemical mechanisms of hormone-induced and cell-cycle regulated transcriptional activity of CREB/ATF proteins. The laboratory has a special interest in protein/protein interactions. A strong background in biochemistry, cell or molecular biology is required. Experience working with yeast would be desirable, as would experience with kinase and/or phosphatase characterization. Salary follows NIH guidelines and is commensurate with experience. Please send curriculum vitae and names of 3 references to: **James P. Hoeffler, Ph.D., Division of Medical Oncology, UCHSC Box B-171, 4200 East 9th Avenue, Denver, CO 80262.** *University of Colorado is committed to Equal Opportunity Employment and Affirmative Action.*

POSTDOCTORAL POSITION in a laboratory that is engaged in the study of cardiovascular molecular biology. The successful applicant will have a Ph.D. in biochemistry, cell biology or pharmacology with experience in molecular biology. The project involves signal transduction of the angiotensin II receptor and vascular smooth muscle growth. The laboratory is a well-equipped part of the research facility, and is located in a very desirable part of coastal Southern California. Send or FAX curriculum vitae and three references to: **Stanley A. Rubin, M.D., V.A. Medical Center (111C), 5901 E. Seventh St., Long Beach, CA 90822. FAX: (310) 494-5849.** *The V.A. is an Equal Opportunity Employer.*

A position as a **POSTDOCTORAL FELLOW** is available immediately for a recent Ph.D. or M.D. graduate with research training in biochemistry, molecular biology, pharmacology, toxicology, genetics or nutrition. The research activity of this position will involve studies investigating retinoid metabolism and function in a strain of mice which has been created through targeted gene disruption to lack a protein which is important for normal retinoid transport. Applicants should send curriculum vitae, a brief description of research experience and three letters of reference to: **Dr. William S. Blaner, Institute of Human Nutrition, Columbia University, 630 West 168th Street, P&S 9-510, New York, NY 10032.** *Equal Opportunity Employer.*

Four billion-plus
in annual sales
can support R&D
in a major way.

SENIOR SCIENTISTS

Allergy

It takes a lot of money to fund significant work in Pharmaceutical R&D. At Schering-Plough, the commercial success we have achieved around the world, with a diverse line of both pharmaceuticals and health care products, enables us to spend over \$500 million annually on R&D. And, allowed us to build a one million square foot drug discovery facility—the largest pharmaceutical research facility in the nation.

Success like this could mean an important opportunity for talented professionals. We are seeking two Senior Scientists to conduct in vivo studies for the investigation of cytokines and airway inflammation.

One position will focus on studies in non-human primates, and will involve correlating cellular infiltration into allergic airways with changes in airway reactivity. To qualify for this position, you must possess a PhD in Pulmonary Physiology (or related field), 0-2 years of postdoctoral training and experience measuring pulmonary function in non-rodent species. Please refer to Position DD93-10 on resume.

The second position will focus on the quantification of cellular infiltration and inflammatory damage in diseased airways, using computerized image analysis and immunocytochemical markers of cellular activation. For this position, you must have a PhD in Cell Biology (or related

field) and 2 years of postdoctoral training; experience measuring morphometric changes in airways is desirable. Please refer to Position DD93-WAT.

We offer competitive compensation packages, and the resources you need for professional challenge and satisfaction. For confidential consideration, please send your resume, indicating salary history/ requirements and the code for your position of interest, to: **Ms. Kathy Bassinger, Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, New Jersey 07033.** We are an equal opportunity employer.



**Schering-Plough
Research Institute**

Using Science for Human Advantage

University of Minnesota Institute of Human Genetics

The Institute of Human Genetics, in collaboration with the Departments of Pediatrics and Cell Biology & Neuroanatomy, at the University of Minnesota is establishing a new **Developmental Biology Research Group**, to be headed by Dr. Christopher Wylie. Two, of an eventual four, new tenure-track Assistant Professorships are now available to be filled. All areas of research in eukaryotic developmental biology will be considered, but particular consideration will be given to those using molecular and/or genetic approaches to developmental problems. Candidates must have a doctoral degree (M.D., Ph.D., or their equivalents), at least two years of postdoctoral experience, and a proven record of high quality research (as shown by acceptance or publication of papers in quality, peer-reviewed journals). Candidates will be expected to develop a strong, independent research program, leading to external funding. The primary appointments will be in the Medical School department(s) most suited to the skills of the successful candidates. Strong emphasis will be placed upon the candidates' ability to interact with other members of the group, the Institute and Department, and the University community. Teaching and advising will be done in the appropriate graduate program(s) and in the Department(s) in which the primary appointments are held. Successful candidates must provide verification of highest degrees, and be able to secure green cards, if not residents of the United States. Salary will be commensurate with education and experience.

Please send a curriculum vitae, a brief research statement, and three letters of recommendation to: Chair, Developmental Biology Search Committee, University of Minnesota, Institute of Human Genetics, Box 206 Mayo, 420 Delaware Street SE, Minneapolis, MN 55455-0392, U.S.A. The last date for receipt of applications is September 10, 1993.

The University of Minnesota is an equal opportunity educator and employer.

Senior Staff Scientists

The Amgen Institute invites qualified professionals to apply for positions of Senior Staff Scientist. You will be responsible for independent investigations at our new state-of-the-art research facilities which are presently under construction within the Toronto University Hospital research centre.

Candidates must have a qualified doctoral or medical degree, with at least two years of postdoctoral training and a demonstrated ability to develop strong research programmes. Applicants interested in basic research in molecular and cellular biology of lymphocyte regulation, immune recognition, neurobiology and related areas will be given priority. Successful candidates are eligible to apply for cross appointments at the Ontario Cancer Institute and appropriate academic departments at the University of Toronto.

The Canadian Immigration Department stipulates that Canadian residents will be considered in the first instance. However, all qualified professionals are urged to apply. Please send a current curriculum vitae, brief statement of future research interests and three letters of recommendation to: **Amgen Institute, Attn: Professor T.W. Mak, Job Code OA-SC-DC-008, 500 Sherbourne Street, Toronto, Ontario, Canada M4X 1K9.**

**The Amgen Institute
(Toronto)**

We are an equal opportunity employer M/F/D/V.

**Texas A&M University
Head, Department of Oceanography**

Texas A&M University invites nominations and applications for the position of Head of the Department of Oceanography. This newly combined Department includes the former graduate-level Department of Oceanography on the College Station Campus and the undergraduate Department of Marine Sciences on the Galveston Campus. In the combined Department there are currently 41 tenure-track faculty positions, 141 undergraduate and 96 graduate students. The Department is a part of the College of Geosciences and Maritime Studies which includes 10 other degree-granting academic departments, several free-standing research programs including the Ocean Drilling Program (ODP), the Texas Institute of Oceanography (TIO), the US Office of the World Ocean Circulation Experiment (WOCE), the Geochemical and Environmental Research Group (GERG), the Texas Center for Climate Studies (TCCS) and the Sea Grant Program.

There are opportunities for cooperative efforts at any level with the Department of Meteorology and with the solid earth Departments and programs within the College as well as with programs in the Colleges of Science, Engineering, and Agriculture and Life Sciences.

We are searching for a senior level ocean scientist with academic and administrative experience. A demonstrated ability to manage complex interdisciplinary education and research programs is essential.

Nominations and applications should be sent to Dr. Earl R. Hoskins, Chairman of the Oceanography Department Head Search Committee, College of Geosciences and Maritime Studies, Texas A&M University, College Station, Texas 77843-3148. Applications should include a complete vita and the names and addresses of three references. Evaluation of applications will begin by 1 October 1993.

Texas A&M University is an equal opportunity affirmative action employer committed to diversity.

CHAIR POSITION

Environmental Health Scientist/Department Chair, Department of Environmental Health, East Tennessee State University, 12 month position, tenure-track, Associate/Full Professor. Rank and salary commensurate with qualifications and experience. Fall, 1993. Minimum qualifications include a Ph.D. in environmental health science with a concentration in either biology, chemistry, ecotoxicology, or engineering. Administrative experience in higher education and eligibility for certification by a related professional board are required. Desire to teach undergraduate and graduate students necessary. Candidates must have a strong established scholarly research program in one of the environmental sciences (either biology, chemistry, ecotoxicology, or engineering), as documented by refereed journal publications in appropriate science journals. Evidence of experience as a Principal Investigator on environmental science research grants in the appropriate discipline is required. Must lead and coordinate a department of seven faculty, 375 undergraduates, and 100 graduate student in a variety of areas of concentration.

**ENVIRONMENTAL TOXICOLOGIST/
ECOTOXICOLOGIST**

Environmental Toxicologist/Ecotoxicologist, Department of Environmental Health, East Tennessee State University, 9 month academic year, tenure-track, Assistant Professor, Fall, 1993. Minimum qualifications include a Ph.D. in a science discipline related to the environmental toxicology/ecotoxicology or aquatic systems (either toxicology, biology, chemistry, pharmacology, or engineering). Must have credentials that clearly complement an interdisciplinary program in the technical aspects of environmental quality and hazardous materials management. Candidates should have the ability to initiate an extra-murally funded research program supporting student research experiences. Evidence of published research in refereed science journals appropriate to the candidate's discipline is required.

Send a statement of experience, current vita, names, addresses, phone numbers of five references, and documentation of current research interests and publication to: Dr. Guy R. Lanza, Dean, College of Public and Allied Health, East Tennessee State University, Box 70,623, Johnson City, TN 37614-0623. Review of applications will begin on July 15, 1993 and the process will continue until suitable candidates are found.

An Equal Opportunity/Affirmative Action Employer.

First Ever!!!

**B.S./M.S. Recruitment
Advertising Section**

A Primer for Scientists with B.S./
M.S. Degrees in Biology and
Chemistry entering the
Pharmaceutical and
Biotechnology Industries

* * * * *

Special Bonus Distribution to
over 50 Universities
during fall 1993!

* * * * *

This special section will also be
published in the 27 August issue
of *SCIENCE*, guaranteeing
your recruitment ad exposure
to over 450,000 scientists
worldwide!

For more information on this
SCIENCE exclusive, call:
Janis Crowley
Recruitment Advertising Manager
at 212-496-7704

In Europe call Annemarie Vis at
+44 223 302067

Human Genetics...

Translating Knowledge into Therapies

Mercator Genetics is a newly established biotechnology company leading the commercialization of recent advances in human genetics. The company is pioneering the discovery of new human therapeutic and diagnostic products for common diseases based upon the fundamental role that specific genes play in these serious diseases.

SENIOR SCIENTISTS

We are seeking established Scientists with a strong record in human molecular genetics, eukaryotic genetics, and related areas of research. Qualified applicants will possess a Ph.D. or M.D. and be able to assume responsibility for the management & completion of high profile projects. Qualified candidates must have a minimum of four years of supervisory experience following a Post Doctorate. (JOB# SM-723-SS)

SCIENTISTS

We are seeking scientists with Post Doctoral experience in human molecular genetics, molecular biology, cell biology, and related areas of research. Qualified applicants must possess a Ph.D. with demonstrated scientific creativity, initiative, and the ability to work independently. (JOB# SM-723-S)

POST DOCTORAL RESEARCH POSITIONS

Post Doctoral research positions for recent Ph.D.s to conduct research in the areas of human genetics, cell biology, receptor-ligand interactions, molecular biology, and related areas. We are seeking individuals with demonstrated scientific creativity, independence, and initiative. Experience with molecular biology, biochemistry, cell biology and human and other eukaryotic genetics is required. (JOB# SM-723-PDR)

RESEARCH ASSOCIATES

We are seeking research associates with experience in human genetics, molecular biology, and cell biology to work within a highly interactive research team. Experience in a broad range of research and development techniques, and a minimum of two years lab experience in the areas of complex genome analysis, DNA sequencing, cell biology, tissue culture, and mammalian cell transfection is required. (JOB# SM-723-RA)

In addition to an exciting and challenging research environment, Mercator offers competitive salaries and benefits, employee stock option plan, and an attractive San Francisco Bay Area location. For consideration, please send resume with cover letter and salary history to: **Mercator Genetics, Inc., Human Resources Department - Job#, 4040 Campbell Ave., Menlo Park, CA 94025.** Mercator Genetics is an Equal Opportunity Employer.

Mercator Genetics, Inc.



POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study posttranslational processing and sorting of proteins in normal and leukemic human myeloid cells. At least three years of postdoctoral experience in the areas of protein biochemistry and molecular biology required. Send or FAX curriculum vitae and names of three references to: **Dr. Jack Kinkade, Department of Biochemistry, Emory University School of Medicine, Atlanta, GA 30322; FAX: (404) 727-2738. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOW and/or **RESEARCH ASSOCIATE** position available immediately to study molecular hemostasis. Projects include: (1) molecular mechanisms of platelet activation; (2) vascular cell antithrombotic mediators and gene expression; (3) platelet-vessel wall interactions in shear stress models. Laboratories at Baylor College of Medicine and Rice University. Please send résumé and references to: **Dr. Andrew I. Schafer, Medical Service (111), Houston VA Medical Center, 2002 Holcombe Boulevard, Houston, TX 77030.**

POSTDOCTORAL FELLOW

A postdoctoral fellowship is available in the Radiation Effects branch of the Naval Research Laboratory. The position is in a research program to study ionizing radiation effects in DNA. Applications are invited from candidates familiar with gel electrophoresis, Southern blots and autoradiography. The appointment, administered through the Office of Naval Research, is for one year and carries a stipend of \$36,000. *U.S. citizenship required.* Position is available immediately. For further information contact: **Dr. Michael A. Xapsos, Code 6615, Naval Research Laboratory, Washington, DC 20375-5345; Telephone: (202) 767-3938.**

RESEARCH FELLOWSHIPS IN INVESTIGATIVE AND MOLECULAR DERMATOLOGY

The Skin Diseases Research Center at Case Western Reserve University offers a postdoctoral program for those with an M.D. or Ph.D. degree contemplating an academic career in dermatological research. Special expertise and research areas of our program faculty include: immunodermatology, molecular and cellular biology, photodermatology and photomedicine, skin pharmacology and skin carcinogenesis and dermatologic epidemiology. This program is funded by an NIH training grant. *Candidates must be U.S. citizens or permanent residents.* For more information, send curriculum vitae and outline of career plans to:

**Hasan Mukhtar, Ph.D.
Professor and Research Director
Department of Dermatology
Case Western Reserve University
2074 Abington Road
Cleveland, OH 44106
Telephone: (216) 368-1127**

Case Western Reserve is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL SCIENTIFIC RESEARCH OPPORTUNITIES IN INDIA. Three- to twelve-month fellowships in India awarded to U.S. citizens in 1993-4. For information, contact: **Jeanine Marie Greene, Academy for Educational Development, 1255 23rd Street, NW, Washington, DC 20037.**

POSTDOCTORAL RESEARCH ASSOCIATES (2). One position requires expertise in protein analysis (Western blots, immunoprecipitation, etc.) and monoclonal antibody production. Second position requires expertise in molecular cloning techniques. Three-year NCI-funded project on novel mechanism of drug resistance. Three references must be provided on request. Cut-off date October 1, 1993. Contact: **Dr. Jonathan Nyce, Department of Molecular Pharmacology & Therapeutics, School of Medicine, East Carolina University, Greenville, NC 27858. East Carolina University is a constituent institution of the University of North Carolina, and an Equal Opportunity/Affirmative Action Employer. Proper documentation of identity and employability required at the time of employment.**

POSITIONS OPEN

RESEARCH ASSOCIATE/ POSTDOCTORAL POSITION (Biology Department)

Challenging and interesting one-year appointment to participate in a research project on the influence of zebra mussels on indigenous mussels in the St. Croix River.

Prefer Ph.D. or M.A. minimum, plus extensive related experience. Prefer SCUBA certification, familiarity with the use of oxygen ammonia and carbon dioxide electrodes, experience in filter-feeding experiments and a knowledge of unionid mussel identification.

Interested applicants please send a cover letter, résumé and three letters of reference to: **Daniel Hornbach, Department of Biology, MACALESTER COLLEGE, 1600 Grand Avenue, St. Paul, MN 55105.** Résumés will be reviewed until the position is filled. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE To Study G Protein-Membrane Associations.

**St. Elizabeth's Medical Center of Boston
Tufts University School of Medicine**

Position available fall of 1993 to investigate the mechanisms by which G proteins associate with plasma membranes. Studies will focus on both large and small (ras, rho) G proteins. Applicants should have a strong background in biochemistry and molecular biology. Familiarity with G proteins and plasma membrane biochemistry would be helpful. Send curriculum vitae and the names and telephone numbers of three references to: **Dr. Carl M. Cohen, Chief, Division of Cellular and Molecular Biology, Department of Biomedical Research, St. Elizabeth's Medical Center of Boston, 736 Cambridge Street, Boston, MA 02135; Telephone: (617) 789-2697; FAX: (617) 789-3111.**

POSTDOCTORAL FELLOWS sought to join multidisciplinary **MOLECULAR AND CELLULAR NEUROSCIENCE** group in studies of (a) nicotinic acetylcholine receptor structure and function, and (b) intracellular pathways and nuclear mechanisms that control receptor expression. Investigations encompass molecular genetic, protein chemical, immunological, electrophysiological, and pharmacological approaches in a unique and dynamic institution. Send curriculum vitae, names and addresses of three references, and brief statement of research experience, interests and career objectives to: **R.J. Lukas, Vice Chairman, Division of Neurobiology, Barrow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity/Affirmative Action Employer.**

BIOLOGICAL SEQUENCE COMPARISON

POSTDOCTORAL POSITION available immediately to develop more powerful methods for protein and DNA sequence comparison. Approaches include evaluation of sequence comparison methods, multiple alignment algorithms, parallel computation, evolutionary tree construction, and sequence/structure comparisons. Candidates with backgrounds in protein structural analyses, molecular sequence comparison, and molecular evolution are encouraged to apply. Send curriculum vitae and the names of three references to: **William R. Pearson, Department of Biochemistry, Box 440 Jordan Hall, University of Virginia, Charlottesville, VA 22908. FAX: (804) 924-5069, Email: wrp@virginia.EDU. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH

At Oncologix Inc., a fast-growing biotechnology company located in Gaithersburg, Maryland, we're dedicated to the development of innovative cancer-fighting drugs.

RESEARCH ASSOCIATE

Our current opportunity for a Research Associate requires a general knowledge of recombinant DNA methods and experience with PCR, cloning and expression in prokaryotic and eukaryotic systems, sequencing and Western blotting. Experience with protein purification and biochemical assays a plus. M.A. degree in Molecular Biology/Biology/Microbiology and at least 1 year of research experience in an academic or industrial setting required.

At Oncologix, you'll enjoy our professional atmosphere, highly competitive salaries and comprehensive benefits program. Please send two (2) copies of your résumé to:

**ONCOLOGIX
Attention: LS, 19 Firstfield Road,
Gaithersburg, MD 20878**

POSITIONS OPEN

The Center for Neurobiology and Behavior at Columbia University is seeking an **ASSOCIATE RESEARCH SCIENTIST** with experience in developmental neurobiology and expression cloning techniques. The project involved will be to identify factors involved in cell patterning in the vertebrate nervous system, and requires knowledge of molecular cloning, oocyte expression, cell microinjection, and cell culture. Applicant must have a Ph.D., M.D., or equivalent and extensive experience in developmental neurobiology and molecular biology. *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

Submit curriculum vitae, names and addresses of three references, and summary of research objectives to:

**Vicki A. Leon
Center for Neurobiology & Behavior
Columbia University
HHSC, 701 West 168th Street, Room 1013
New York, NY 10032**

JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (JILA)

JILA [operated jointly by the National Institute of Standards and Technology (formerly NBS) and the University of Colorado] is devoted to research, study, and teaching in atomic and molecular physics, chemical physics, laser physics, astrophysics, precision measurement, gravitational physics, geophysical measurement, and related areas. 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 application is November 1, 1993.

Further information can be obtained from: **Secretary, Visiting Scientists Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-0440, U.S.A.** *The University of Colorado is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE—Tumor Molecular Biology Shared Services Laboratory—To coordinate a shared services laboratory for studying human tumor genes, and to supervise technicians as well as to carry out studies directly. Should be familiar with blots, PCR, sequencing, hybridization, cloning, and gene analysis, and be able to design and coordinate projects using these techniques. Activities will be integrated with a large clinical molecular diagnostics laboratory and position will provide extensive collaborative opportunities in development of new systems for the study of human tumor. Requires Ph.D. in Molecular Genetics or related discipline. Salary negotiable, depending on qualifications. Includes university fringe benefits. Contact: **Professor Joseph Locker, University of Pittsburgh, Department of Pathology, A-725 Scaife Hall, Pittsburgh, PA 15261.**

Faculty of Medicine Department of Pathology Division of Medical Microbiology

A **JUNIOR SCIENTIST** (Ph.D. plus 2 to 5 years of postdoctoral experience) is being recruited to take part in a Neurovirology Program which the University of British Columbia (UBC) is seeking to establish through an MRC development grant. Two senior investigators have already been recruited to participate in this endeavor and the research of the junior scientist should complement their studies in the field of virus/CNS interactions. The successful candidate will be required to apply for operating and capital equipment funds through the MRC program. This will be a full-time, tenure-track academic appointment.

Anticipated starting date will be January 1, 1994. Salary will be commensurate with qualifications and experience. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities.*

Please send curriculum vitae and two letters of reference by September 30, 1993, to: **Dr. Janet Chantler, Neurovirology Program, Division of Medical Microbiology, University of British Columbia, Room 211, 2660 Oak Street, Vancouver, B.C., Canada V6H 3Z6.**

The quality of
R&D depends
on the quality
of the resources.

VETERINARY PATHOLOGISTS

There are a number of components to success in the pharmaceutical research process. The most important is our people. At Schering-Plough, we hire the best talent in our industry. Then, we provide them with the technical resources they need to do their best work: the most advanced instrumentation; the latest computerized systems; modern lab facilities. We spend over \$500 million annually on R&D, and have just occupied a \$300 million R&D facility.

Commitment of this scope has helped us achieve \$4 billion in annual sales around the world. To maintain our leadership position as a pharmaceutical firm with a very rich product pipeline, we are seeking two Veterinary Pathologists to join our Safety Evaluation Center in Lafayette, New Jersey. Lafayette is a rural, northwestern New Jersey community, set among rolling hills and dairy farms.

Requirements for both positions include DVM and PhD in Veterinary Pathology and ACVP board certification. In addition to the many other benefits associated with joining Schering-Plough Research Institute, there is also a new, dual career ladder, designed specifically for Drug Safety and Metabolism, which offers the opportunity for advancement through both research and management tracks.

VETERINARY CLINICAL PATHOLOGIST

Using your clinical pathology expertise, and as a member of the Pathology Department and Head of the Clinical Pathology Laboratory, you will have the opportunity to join a multi-disciplinary team of scientific professionals involved in the discovery and development of new therapeutic agents, with an emphasis on investigating mechanisms of toxicity of new pharmaceuticals. We look for demonstrated ability in clinical pathology, documented contribution to scientific literature, and experience participating in the design, conduct, and reporting of toxicity studies.

SENIOR RESEARCH PATHOLOGIST

We are seeking a Senior Research Pathologist to lead a team of professionals in conducting drug safety programs to support registration of our animal health products. You will be responsible for toxicology studies and integrating these results with information from drug metabolism and pharmacokinetics areas. While reporting to the Director, General Toxicology, you will serve as Study Director/Pathologist on target animal and food safety studies, and join drug development teams for both human and veterinary pharmaceuticals. Familiarity with governmental regulatory authorities is a decided asset; project management experience for studies conducted in contract laboratories would be a plus.

Schering-Plough Research Institute offers a comprehensive compensation package that includes a salary commensurate with your experience and education, a generous benefits program and an attractive relocation policy. For confidential consideration, please send your curriculum vitae and salary requirements for your position of interest to: Mr. Robert Blackburn, Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, New Jersey 07033. We are an equal opportunity employer.

Using Science for Human Advantage



Schering-Plough
Research Institute

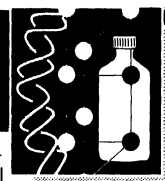
Associate Dean for Research - The University of California, Davis, School of Medicine announces the search for an Associate Dean for Research. The Associate Dean will be assigned the primary responsibility for maintaining and enhancing the research stature of the School of Medicine and will serve as an advocate for the research activities within the School, the Medical Center, and the University. With an entrepreneurial leadership approach, incumbent should be innovative and effective in facilitating research support in the School of Medicine including outreach toward industry. Candidate should have administrative experience in grant acquisition; familiarity with government and nongovernment grantor and industry research funding policies; demonstrated scholarly activities/research, with documented, long-term grant support having had a major NSF or NIH grant or its industrial equivalent; and strong interpersonal, organizational and communication skills. The successful candidate must possess a Ph.D. and/or M.D. degree and be academically qualified for appointment at the Professorial level in one of the departments of the School of Medicine.

Please forward the following: (1) letter describing administrative, teaching, and research background; (2) curriculum vitae; and (3) names and addresses of five references to Fitz-Roy Curry, Ph.D., Chair, Search Committee for Associate Dean for Research, c/o Karen Eilers, Office of the Dean, School of Medicine, Medical Sciences I-C, University of California, Davis, California 95616. This position will be "Open Until Filled". Applications will not be accepted after November 15, 1993. The Search Committee will begin review of applications two weeks after publication of position announcement.

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

Join Sterling Winthrop and be part of a team dedicated to the enhancement of scientific discovery. Sterling Winthrop Pharmaceuticals Research Division is the worldwide pharmaceutical research and development organization of Sterling Winthrop Inc. We currently have opportunities for scientists with strong analytical skills, solid computer experience, and strong report-writing skills to join our Drug Metabolism & Pharmacokinetics group at our new, state-of-the-art research facility in Collegeville, Pennsylvania:

DRUG METABOLISM & PHARMACOKINETICS



Both of the positions will be involved with the development and validation of analytical procedures for the determination of drug/metabolite concentrations in biological specimens in support of preclinical and clinical drug disposition studies. This will include assisting in the preparation of formal reports for distribution within the organization and/or regulatory filing.

Associate Research Scientist - Position GV-43-93-JRC

Requirements include a BS degree in Analytical, Organic or Pharmaceutical Chemistry with 1-2 years industrial experience. Knowledge of trace analysis of organic molecules in biological matrices using HPLC and/or GC with UV or fluorescents and/or electro-chemical detection is preferred. Some experience with computer-based data analysis systems and knowledge of GLP regulations is helpful.

Research Scientist - Position GV-118-93-JRC

Requirements include a BS or MS degree in Analytical, Organic or Pharmaceutical Chemistry with a minimum of 2 years strong industrial experience which must include a strong background in trace analysis of organic molecules in biological matrices using HPLC and/or GC with UV or fluorescents and/or electro-chemical detection. Experience with computer-based data analysis systems, report preparation and knowledge of GLP regulations required.

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



STERLING
WINTHROP

Pharmaceuticals
Research Division

Human Resources
Sterling Winthrop PRD
81 Columbia Turnpike
Rensselaer, NY 12144

Equal Opportunity Employer, M/F/D/V

A Division of Sterling Winthrop Inc.
A Subsidiary of Eastman Kodak Co.

The University of Chicago/Faculty Position Academic Chemical Pathologist

The Department of Pathology invites applications for a full-time faculty position in clinical chemistry at The University of Chicago. Initial appointment will be at the rank of Assistant Professor. Candidates should possess the M.D., Ph.D., or M.D./Ph.D. degrees and be Board-certified/Board-eligible by the American Board of Pathology or the American Board of Clinical Chemistry. Preference will be given to individuals with fellowship training or previous subspecialty experience in the area of chemical pathology/clinical chemistry. The successful applicant will have clinical and administrative responsibilities as an Assistant Director of Clinical Chemistry at our primary teaching affiliate, the 633-bed University of Chicago Hospitals. This large and expanding diagnostic laboratory service currently performs over 3.2 million adult and pediatric procedures/yr. in the sections of general (automated) chemistry, special chemistry, toxicology/therapeutic drug monitoring, and radioimmunoassay/endocrinology. Qualified candidates must be committed to developing an independent program of basic or clinical investigative research, as evidenced by a record of scholarly publications, and will be expected to participate in the educational activities sponsored by the department, including training of residents, fellows, and medical students. Salary is competitive and an excellent benefit package is included. Research space and start-up support is also available. Submit your curriculum vitae with a cover letter describing your clinical and research interests to:

Godfrey S. Getz, M.D., Ph.D.
Chairman, Department of Pathology, MC3083
The University of Chicago
5841 S. Maryland Avenue
Chicago, IL 60637



THE UNIVERSITY
OF CHICAGO

The University of Chicago is An Affirmative Action Equal Opportunity Employer

MACROMOLECULAR CRYSTALLOGRAPHER

Experienced macromolecular crystallographer to lead an independent research group devoted to structural studies of proteins and/or nucleic acids, relevant to the problems of cancer and/or AIDS. The Macromolecular Structure Laboratory (MSL) which includes crystallography, NMR and chemistry sections, has current research interests in retroviral proteases and integrases, cytokines, and antitumor asparaginases.

This position may be filled at a group leader level (equivalent to a tenure-track assistant professor), or, for exceptional candidates, at a section head level (equivalent to tenured professor). **Minimum qualifications:** 3 years successful postdoctoral experience plus 2 years as a research scientist, as documented by high-quality publications. Section head candidates will have 5 years as a research scientist, an extensive publication record and proven ability to direct research of postdoctoral scientists.

The MSL facility, located 45 miles north of Washington DC, in Frederick, MD, includes well-equipped laboratories, Siemens and Rigaku area detectors mounted on rotating anode generators, and unparalleled computing facilities.

We offer a full complement of benefits, competitive salary, and an excellent work environment. Please send C.V. with current salary and contact information for three references to:

Personnel Department/MSL
ABL-Basic Research Program
NCI-Frederick Cancer Research
and Development Center
P.O. Box B, Building 428
Frederick, MD 21701-1201



EEO/MFDFV

Collaborative Environmental Research in South Florida Invitation for Proposals

The Department of Research at the South Florida Water Management District invites proposals from scientific groups or individuals to conduct collaborative research with District staff. Proposals are encouraged that address all aspects of subtropical wetlands ecology, estuarine ecology, and limnology, including nutrient cycling, food web dynamics, wildlife, hydraulics-hydrodynamics, water quality, and modeling. Proposals should be brief (do not exceed 2 single-spaced pages) and should describe possible collaborative projects.

Collaboration opportunities are available with the Kissimmee River Restoration Project, the largest river restoration project in the U.S.; Lake Okeechobee, the largest lake in Florida; the Everglades Nutrient Removal Project, the largest constructed wetland in the U.S.; The Everglades, the largest subtropical wetland in North America; and Florida Bay, a unique subtropical estuary. The District's extensive historical database is available for generating hypotheses designing experiments, and for comparisons with models and new data.

The District has internationally known researchers and engineers, an excellent support staff, and can provide access to research sites. Limited facility support (computer and laboratory) and cost share is possible. For additional information on District staff expertise and possible areas of collaboration write Dr. Garth Redfield, Director, Research Appraisal Division, South Florida Water Management District, 3301 Gun Club Road, P.O. Box 24680, West Palm Beach, Florida, 33416. Please indicate specific areas of interest when requesting information.

ATTENTION Science RECRUITMENT ADVERTISERS...

\$50 SPECIAL

Place your classified ad in any July or August 1993 issue of *Science* and get double exposure. We'll display the same position announcement at the Employment Exchange during Science Innovation '93: The Conference on New Research Techniques--for only \$50 more.

When you place your classified ad in *Science*, simply let us know that you want to take advantage of the \$50 SPECIAL and we'll do the rest.

The Employment Exchange will take place at Science Innovation '93 at the Hynes Convention Center in Boston, August 6-10. Thousands of scientists have been invited to participate. Act fast and you can reach this unique pool of candidates.

You can also take advantage of the special if you have recently advertised in *Science*.

To obtain more information or to find out how you may interview candidates during the Employment Exchange at Science Innovation '93, contact: Jacquelyn Roberts at 202-326-6737.

Postdoctoral Research Scientist

Position available for molecular biologist to work on the role of hepatocyte growth factor/scatter factor and the c-met receptor in biological and pathological processes. Ph.D. in Biological Sciences with experience in molecular biology is required.

Competitive salary and benefits package. Please send resume to: Dr. I. Goldberg, Chairman, Dept. of Radiation Oncology, LIJ, New Hyde Park, NY 11042. An Equal Opportunity Employer.



Long Island Jewish
Medical Center

The Long Island Campus for the
Albert Einstein College of Medicine

SCIENTIFIC PROGRAMMER ANALYSTS

Delivering on the promise of biotechnology...

Immunex Corporation is a Seattle-based biopharmaceutical company focused on the discovery, development, manufacture, and marketing of products to treat immune system disorders. If you are an experienced Scientific Programmer Analyst, consider these two opportunities in our Protein Chemistry Department:

PROTEIN SEQUENCING DATABASES

If selected, you will manage and analyze protein and nucleic acid sequence databases. You will also interact extensively with our research staff and act as a liaison between various scientific groups within Immunex. ■ Research opportunities include algorithm development, protein folding prediction, understanding protein evolution, and developing new ways to identify functionally important protein sequences from the databases. ■ To qualify, you must be able to understand and develop mathematical algorithms used in sequence analysis and other molecular modeling software. Experience with UNIX and VMS operating systems plus FORTRAN and C programming languages is essential. Experience with molecular modeling software and protein structures is desirable. A BS in a related field (or equivalent experience) and experience in protein sequence analysis are required. MS degree preferred. Reference #4660233A.

SCIENTIFIC DATABASES

If selected, you will design, maintain, and support scientific databases specific to the needs of various scientific groups within Immunex. Your responsibilities will also include supporting the data flow from various instruments into the VAX/VMS. ■ In this position, you'll interact closely with database specialists in our Information Systems Department. The Immunex computing environment consists of a VAX cluster, several Silicon Graphics, DEC, and HP workstations, and a network of IBM PCs and Macintoshes. ■ The ability to understand scientific data, experience designing databases, and knowledge of RS1 and Oracle are essential. We also require a BS (or equivalent experience) in computer science or biostatistics. MS preferred. Reference #4660233B.

Immunex Corporation offers competitive salaries and excellent benefits. For consideration, please send your resume, indicating the appropriate reference number, to: **Immunex Corporation, Attn: Human Resources, 51 University Street, Seattle, WA 98101. Jobline: (206) 389-4060.** Equal Opportunity Employer.

IMMUNEX®

Deputy Director

Lawrence Livermore National Laboratory, one of the nation's premier research and development organizations, is seeking a Deputy Director. Reporting directly to the Director of the Laboratory and acting first for him in his absence, the Deputy Director is the senior member of the Director's top management team which is responsible for Laboratory-wide direction, vision setting and standard setting functions.

The successful candidate will be responsible for the development of policy, administrative oversight for Laboratory planning and associated budget matters; quality assurance; and liaison with senior UC/government officials and program sponsors. In addition to these institutional responsibilities, will have custody of financial, human and facility resources. This includes maintaining a work environment that is in compliance with LLNL safety and ES&H policies and with applicable health, safety and environmental regulations; personnel growth and productivity as well as near-term program accomplishment; meeting established commitments for equal employment opportunity, affirmative action and workforce diversity; and meeting security, classification and property management standards and requirements.

Requirements include a Ph.D. or equivalent experience in a scientific or engineering discipline and a background in senior management in a scientific/technical institution such as a national laboratory. Experience in management of defense-related technology activities is desirable. Also required are demonstrated leadership and management skills, program and project planning experience, excellent communication skills and the ability to interact effectively with high-level government, university and industry personnel. Additional requirements include knowledge and working understanding of national issues and policies and a familiarity with Department of Energy and University of California policies and regulations.

Lawrence Livermore National Laboratory offers a highly competitive salary and benefits package. Interested applicants should send their resume and salary requirements to: Kristine Kansa, Professional Employment Division, Lawrence Livermore National Laboratory, PO Box 5510, L-725, Dept. #A93224, Livermore, CA 94551. U.S. citizenship required. We are proud to be an Equal Opportunity Employer. M/F/D/V.

University of California

 **Lawrence Livermore
National Laboratory**

POSITIONS OPEN

RESEARCHER POSITION IN MOLECULAR BIOLOGY. Molecular Biologist Researcher position at the Assistant level (RESEARCH SCIENTIST or PROJECT SCIENTIST) is available immediately. Will be member of research group working on the pulmonary circulation with a particular interest in gene expression of components of the extracellular matrix of capillaries and collagen metabolism. Must have M.D. or Ph.D. in related field. Salary based on UCSD salary scales. Reply by August 20, 1993, to: John B. West, M.D., Ph.D., Department of Medicine (0623), University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0623. UCSD is an Affirmative Action/Equal Opportunity Employer.

GOVERNMENTAL AFFAIRS SPECIALIST

Progressive manufacturing company in south-eastern Wisconsin is seeking a polished professional to act as our primary liaison with governmental agencies for timely registrations of pesticide products. The ideal candidate will be degreed in business administration or a scientific field with an aptitude for the other discipline. We require a minimum of 3 years of experience in regulatory affairs, specifically concerning EPA regulations. Familiarity with FIFRA required. Must be computer literate with previous database experience.

We offer a competitive salary and benefits package, including 401K. For consideration, please send resume with salary history in confidence to: Box 36, Science Classified Advertising, Room 814, 1333 H Street N.W., Washington, DC 20005.

Equal Opportunity Employer.

VIROLOGIST

Applications are invited for a Ph.D. to join a team of researchers conducting efficacy studies on emerging antiviral compounds. Candidates must have: proven experience in performing a wide variety of assays on human pathogenic viruses using both tissue culture and small animal models; knowledge of established antiviral susceptibility assays; and the ability to develop and implement new testing methods. Familiarity with GLP regulations and strong oral and written communications skills considered valuable assets. This challenging, full-time, permanent position offers an excellent compensation package that includes participation in the company's ESOP and 401K programs. ViroMed Laboratories, a rapidly growing private company providing specialized testing services for private industry and governmental agencies, is located in an attractive suburb convenient to the Twin Cities' thriving educational, sports and cultural center. Send curriculum vitae to: Neal T. Wetherall, Ph.D., Scientific Director, ViroMed Laboratories, Inc., 5500 Felt Road, Minneapolis, MN 55343. ViroMed Laboratories is an Equal Opportunity/Affirmative Action Employer.

TOXICOLOGIST

Commonwealth of Pennsylvania
Department of Environmental Resources

The Pennsylvania Department of Environmental Resources (DER) is seeking to fill a position in the Advanced Science and Research Team with a person with expertise in toxicology, risk assessment and risk management, and public health and safety. This person will provide expert advice and testimony in the above areas, will review risk assessments and develop guidance on risk assessment and risk management, will participate in regulatory review as well as development and implementation of departmental technical guidance, and will serve as a liaison with professionals in other agencies or academia. A doctorate degree in one of the above areas is required. The salary range is \$41,898 to \$64,176 annually. Applicants should send curriculum vitae and a statement of professional goals to: Pennsylvania Department of Environmental Resources, Bureau of Human Resources (TM), 2nd Floor, Market Street State Office Building, P.O. Box 2357, Harrisburg, PA 17120 by September 6, 1993. For further information, call Isabel Buzby at 717-783-2021.

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF MIAMI DEPARTMENT OF PATHOLOGY

The Department of Pathology, University of Miami School of Medicine is seeking a FORENSIC PATHOLOGIST. Special consideration will be given to individuals with interest in teaching and/or research. Please send curriculum vitae and names of three references to: Dr. Ronald Wright, 5301 SW 31st Avenue, Fort Lauderdale, FL 33312. We are an Equal Opportunity Employer and we specifically invite applications from women and minorities.

MEETINGS

NASA NEUROLAB PREPROPOSAL MEETINGS

July 20-21, Tokyo, Japan
August 3, Glasgow, Scotland
August 23, Chicago, Illinois

NASA is holding a series of preproposal meetings for Neurolab. Neurolab is a Space Shuttle mission scheduled for 1998 devoted to brain and behavior research. The purpose of the preproposal meetings is to provide investigators information to assist them in submitting proposals for Neurolab. Presentations about previous flight experiments and information concerning the submission, evaluation, selection, and implementation of proposals will be provided. NASA officials will be available to answer questions and discuss issues raised by researchers. For more information about the preproposal meetings or to receive an Announcement of Opportunity describing the specific objectives of Neurolab and providing information about the submission of proposals contact: David R. Liskowsky, Ph.D., NASA Life and Biomedical Sciences and Applications Division, U.S.R.A., 300 D Street, SW, Suite 801, Washington, DC 20024; Telephone: 202-488-5130, FAX: 202-479-2613.

COMPUTER MARKETPLACE

THE NEW STATISTICS -- Free Trial

Take full advantage of the resampling (bootstrap) revolution in statistics. RESAMPLING STATS is easy to use, powerful, intuitive. For IBM, MAC. Experts & non-statisticians. Completely transforms the way you'll do confidence intervals, hypothesis tests and more. 30-day trial! \$195 corporate, \$95 personal/academic. Book, videos avail. too. RESAMPLING STATS, Suite 1407, 612 N. Jackson St., Arlington, VA 22201 CALL FOR INFO: 703-522-2713 Or fax: 703-522-5846

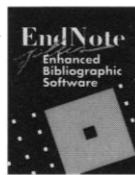
Circle No. 17 on Readers' Service Card

Free Video

See how this software builds bibliographies and organizes your references. PC or Mac.

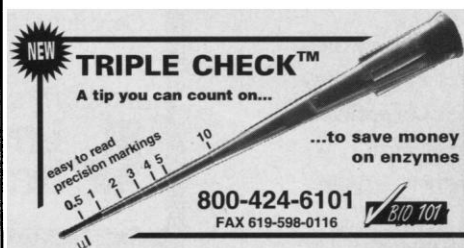
1-800-554-3049

(510) 649-8176. Free offer good in U.S. only



Circle No. 12 on Readers' Service Card

MARKETPLACE



Circle No. 23 on Readers' Service Card

MARKETPLACE

Custom made
PEPTIDES
Around the globe
\$30.00 /residue
Shipped in 10 days
Your Source of Peptides
BIO-SYNTHESIS
1-800-227-0627 Fax: 214-420-0442

Circle No. 1 on Readers' Service Card

MAGNETIC mRNA ISOLATION

Purification Kit for \$195.00

BIOMAG® 1µm PARTICLES
for CELL SEPARATIONS

call (800)343-1346, (617)497-2070

ADVANCED MAGNETICS INC.

Circle No. 16 on Readers' Service Card

ENHANCED MEDIA IN CAPSULES!
FOR BACTERIA & YEAST
Tired of mixing powdered media?
We have more than 100 Molecular
Biology formulations in stock.
Request comprehensive price list.
Custom formulations in 48 hours!
Call toll free or fax 619-598-0116.
800-424-6101 ✓ B10 101

Circle No. 4 on Readers' Service Card

HUMAN ENDOTHELIAL CELLS

FULLY CHARACTERIZED, TESTED, AND GUARANTEED
SPECIAL RESEARCH SYSTEM OFFER
500,000 CELLS PER AMP @ PASSAGE 1
TRUE POOLS OF >100 INDIVIDUAL DONORS
INCLUDES COMPLETE CS-C MEDIUM SYSTEM
ENDOTHELIAL CELL SYSTEM \$95.00

cell systems 1-800-697-1211

Circle No. 22 on Readers' Service Card

Human Hepatic

Microsomes • \$9 • Slices

- For the advancement of research
- In compliance with all applicable regulations
- In vitro contract testing & consulting services

Not-for-profit

Int'l Institute for the Advancement of Medicine
Phone: (215) 363-3600 Fax: 215-363-3605

Circle No. 9 on Readers' Service Card

CUSTOM DNA SYNTHESIS

We use Applied Biosystems Synthesizers • Prices from \$2.50 per base plus setup
PAGE and HPLC Purification Available

The Midland Certified Reagent Company

800-247-8766 or FAX 915-694-2387

Circle No. 3 on Readers' Service Card

Custom DNA

Purified and Delivered in 48 hours

\$7.50 per base • Purified
Guaranteed minimum 100 µg DNA

Research Genetics

1-800-533-4363

Circle No. 2 on Readers' Service Card

HUMAN

MONOCLONAL

CLONE	BINDS TO AMINO ACID RESIDUES NO.	NEUTRALIZING
Anti-gp41 anti-gp160 monoclonal antibodies		
IAM 41-3D6	env 604-617	No
IAM 41-4D4	env 590-600	No
IAM 41-4B3	env 580-604	No
IAM 41-25C2	env 521-538	No
IAM 41-2F5	env 662-667	Yes
IAM 41-3HI2	env 693-856	No
IAM 41-5F3	env 521-538	No
Anti-gp120 anti-gp160 monoclonal antibodies		
IAM 120-2GI2	(b)	Yes
IAM 120-3DI2	(b)	Yes
IAM 120-IBI	(b) (blocks CD4 binding)	Yes
IAM 120-2G6	(b)	No
Anti-p24 monoclonal antibodies		
IAM 24-37GI2	structural epitope	No
IAM 24-3A6	p 24 122-149	No
IAM 24-ID7	unknown	No
(b) Binds to carbohydrate moieties anchored between residues 001-201, 216-254, 285-302, 328-414, or 434-475 of gp160.		
All IAM anti-gp41 and anti-gp120 antibodies also bind to gp160		

HIV-1

Targeted to the

scourge of mankind

ANTIBODIES

***Research Use Only**

Each of our monoclonal HIV-1 antibodies comes in sterile, lyophilized 0.1 mg portions with a technical data sheet, priced at \$375 -\$490 per vial.

FOR ORDERS AND INFORMATION CALL:
Viral Testing Systems Corporation
U.S.: 1-800-323-2437; Outside U.S.: 713-228-1544

Circle No. 8 on Readers' Service Card

IBI

UltraLinker

UV Crosslinking System

UV linked

Vacuum
baked

Duplicate samples of serially diluted *Hae* III cut ϕ X-174 DNA were electrophoresed in a 1.5% LMP agarose (IBI) gel. The gel was blotted overnight onto Pall Biotrans® A membrane that was subsequently cut and either UV crosslinked at 0.15 J/cm² or vacuum baked for 2 hours at 80°C. The membranes were subsequently probed with a ³²P labelled ϕ X-174 DNA and exposed to Kodak XAR film using a Kodak X-OMAT intensifying screen.

Don't settle for half-baked blots.

Introducing the IBI UltraLinker™ UV Crosslinking System. If you're using traditional vacuum baking methods to bind nucleic acids to membranes for southern or northern hybridizations, you may be losing valuable data due to incomplete or uneven binding. Studies show that, compared to vacuum baking, UV crosslinking with the IBI UltraLinker can increase hybridization signal strength at least ten-fold.

Crosslinking in seconds, not hours.

Crosslinking with the IBI UltraLinker cuts preparation times a hundred-fold. So a blot that would take several hours to crosslink in a vacuum oven typically requires less than a minute with the IBI UltraLinker.

Microprocessor control increases uniformity and reproducibility. The IBI UltraLinker takes the guesswork out of sample exposure by monitoring UV energy, ensuring consistent exposure time-after-time. Simple controls and digital readouts enable you to achieve reproducible results with the push of a button.



Silicon photoelectric cell monitors UV radiation in joules/cm². Together with the microprocessor control, it ensures precise exposure control and repeatability.

Doubles as a transilluminator. The IBI UltraLinker's illumination area and 312 nm UV output maximizes detection of ethidium bromide stained samples.

Give your work the exposure it deserves. Learn more today from your VWR Scientific or Kodak sales representative or by calling **800-243-2555**, or fax: 203-624-3143.

Outside the U.S. call 203-786-5600.



Laboratory and Research Products

Eastman Chemical Company
25 Science Park, New Haven, CT 06511

Australia/New Zealand Integrated Sciences Ltd. (02) 436 26 11 Canada InterSciences Inc. (800) 661-6431 Denmark KEBO Lab A/S (44) 88 72 00 Finland KEBO Lab OY (90) 435 420 03 France Technomara France S.A. (1) 39 59 84 42 Germany Technomara Deutschland GmbH (06404) 8090 India Biotech India (542) 311473 Israel TAMAR Ltd. (02) 52 02 79 Italy M-Medical srl (055) 500 1871 Japan DRG International Japan K.K. (03) 3358 1822; Rikei Corp. (Software only) (03) 3345 2177 Korea LRS Laboratories Inc. (02) 924 86 97 Norway KEBO Lab AS (022) 30 17 18 Portugal Quimigranel, lda 858 1564 Spain Quimigranel s.a. (91) 556 16 14 Sweden KEBO Lab AB (08) 621 34 00 Switzerland/Austria/BeNeLux Technomara AG (01) 830 22 77 Taiwan Janson Technology Co., Ltd. (02) 363 9113 United Kingdom IBI Limited 0223 24 28 13.

Biotrans is a registered trademark of Pall BioSupport, a division of Pall Corporation.