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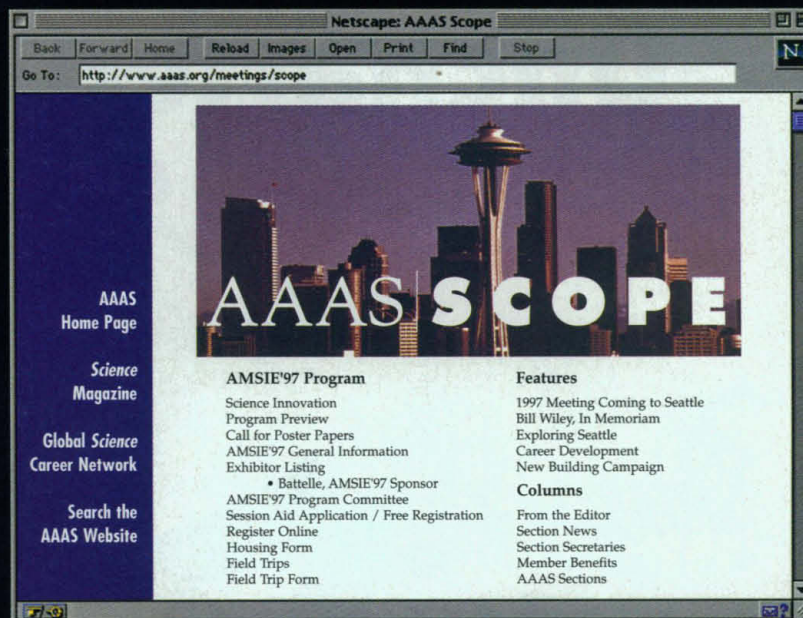
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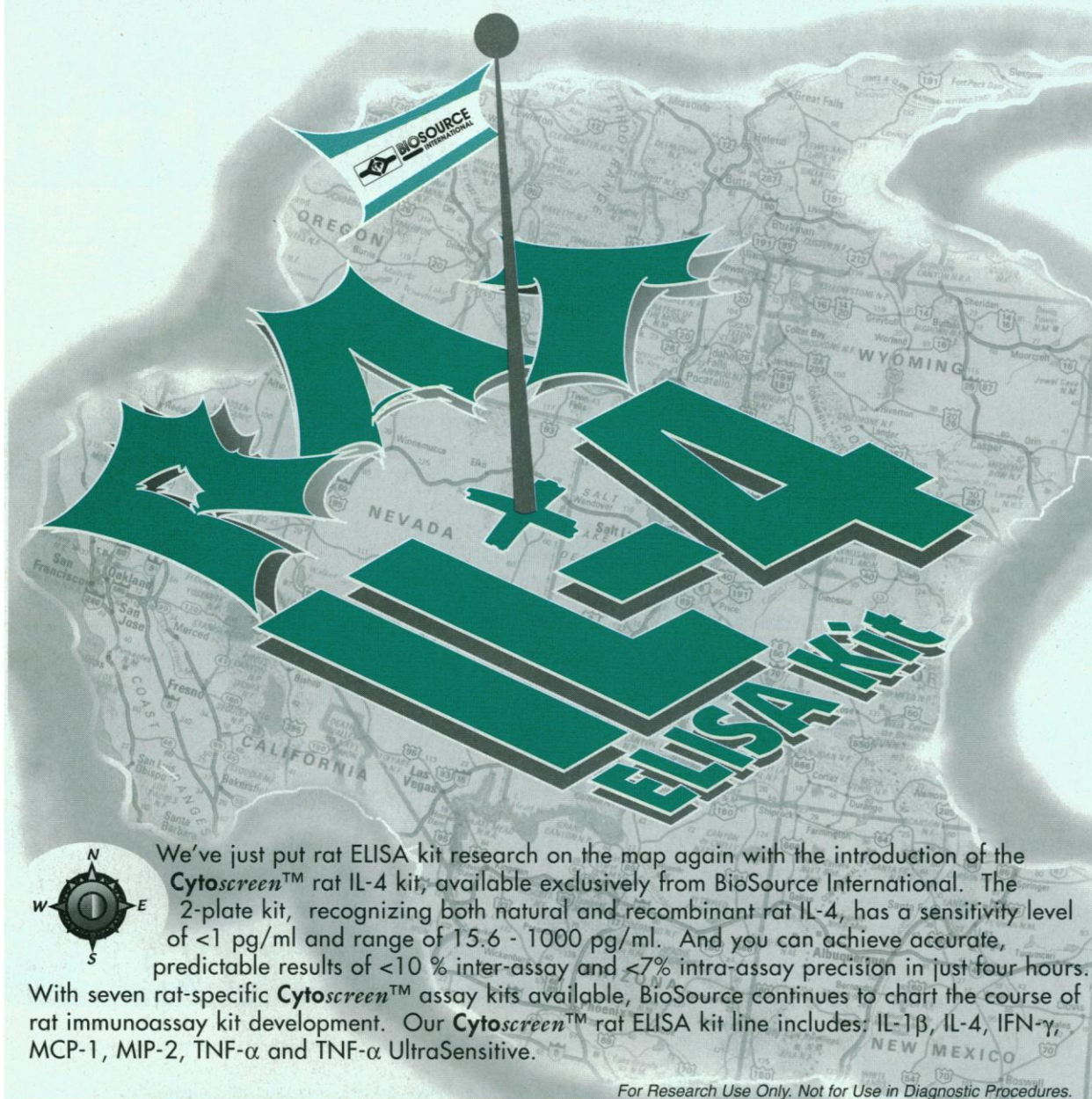
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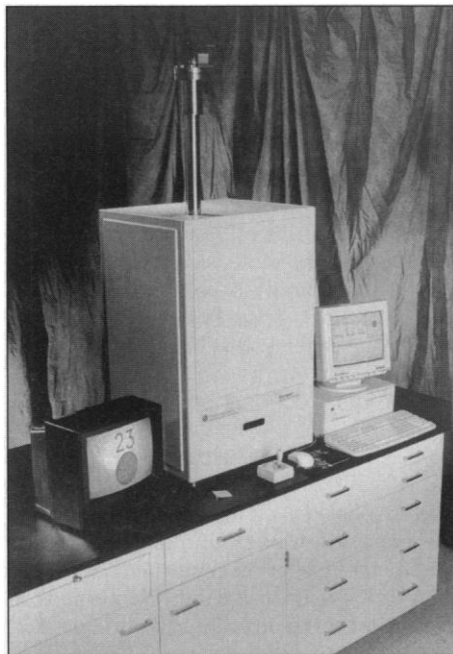
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PRODUCTS & MATERIALS

Mass Spectrometry Workstation

Voyager-DE Biospectrometry Workstation is the first benchtop matrix-assisted laser desorption ionization time-of-flight (MALDI-TOF) mass spectrometry system equipped with patent-pending delayed extraction technology. Delayed extraction, or post-ionization extraction, improves the quality of mass spectrometry by reducing the chemical noise due to fragmentation in the ion accel-



eration region and by reducing matrix background. The instrument is designed to take MALDI-TOF technology out of the research mass spectroscopist's lab and put it in the hands of the protein scientist and molecular biologist working on problems they encounter every day, such as sequencing, glycosylation analysis, and variant determination. **PerSeptive Biosystems. Circle 138.**

ZapOut RNase

ZapOut RNase is a unique formulation for destroying and removing RNases and DNases from laboratory glass and plastic sur-

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DNA Extraction Kit

XTRAX is a 5-min technique for extraction of DNA from a wide variety of samples, including feces, sputum, cells from tissue culture, bacterial cells, clotted blood, and blood collected in anticoagulants. XTRAX contains no hazardous chemicals and the DNA is suitable for polymerase chain reaction and other applications. No water or ice baths are required. **Biodesign International. Circle 140.**

RNA and DNA Isolation Kit

The RNA and DNA Isolation Kit provides a method to simultaneously isolate total RNA and DNA from the same sample. It takes less than 1 hour to complete the RNA extraction and 3 hours for DNA preparation. This kit eliminates the need for phenol extraction. The extracted RNA is free from DNA and protein and can be used for protein immunoblotting, ribonuclease mapping, in vitro translation, and first strand complementary DNA synthesis. The DNA isolated is >40 kb in size and free of RNA and protein. It is ready for Southern blotting and polymerase chain reaction. **Maxim Biotech. Circle 141.**

Oligonucleotide Probe Kits

The Label-It 5' End Labeling Kit yields labeled oligonucleotide probes in 5 min with high specific activity and greater than 95% efficiency. The enzyme used for this reaction, bacteriophage T4 polynucleotide kinase (PNK), catalyzes the transfer of the γ -phosphate of adenosine triphosphate to the 5' terminus of either DNA or RNA. This PNK reaction-driven system offers the versa-

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

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tility to label virtually any nucleic acid. The Forward Reaction labels nucleic acids containing a free 5' hydroxyl. The Exchange Reaction labels nucleic acids containing a 5' phosphate. CPG. Circle 142.

Image Analysis Software

The Zeiss Image series of image analysis software is designed for use with Power Macintosh computers. The software covers the full range of counting, measurement, image, image enhancement, and image archiving applications. Users can employ gray scale or color acquisition, processing, and analysis. The program works seamlessly with other Macintosh-based applications such as Microsoft Excel and Word. Carl Zeiss. Circle 143.

Graphics Visualization Software

Mvox is a powerful, interactive package for the visualization and processing of two-, three-, and four-dimensional image structures. It has the ability to display and manipulate data in a variety of image and three-dimensional graphic formats. It also allows the user to invoke the full power of HIPS-2

image-processing software, thereby providing advanced image-processing capabilities in the Mvox environment. It has been successfully used to visualize and segment two- and three-dimensional medical images with stacks of slices, such as those derived from magnetic resonance imaging; two- and three-dimensional color images, such as histological slices from the Visible Human data set; two-dimensional remote sensing images with many channels; three-dimensional surface graphics, such as those used in computer-aided design programs; and time sequences of any of the above. SharpImage Software. Circle 144.

Azido Nucleotides

A line of unlabeled and ^{32}P -labeled nucleotide photoaffinity probes is available, including probes for studying G proteins. These nucleotide analogs contain a photoactive azido group substitution in the base ring of the nucleotide. Activation by ultraviolet light produces a highly reactive nitrene that inserts into either the peptide backbone or the amino acid side chains to form the covalent linkage. Probes can be photolyzed within 1 to 2 min with a hand-held ultraviolet lamp. The process makes use of common labora-

tory tools and a simple experimental setup. The probes are stable under normal room lighting, eliminating the need for a separate work area. Research Products International. Circle 145.

Image Analysis Systems

The gel documentation camera systems of Biophotonics Corporation have been paired with Bio Image software to offer a complete system for electrophoresis image analysis. Systems are available ranging from individual benchtop workstations to a system capable of



multiple user network integration. Image analysis capabilities include application modules for one-dimensional analysis, two-dimensional analysis, blot analysis, and colony counting for both Windows and PowerMac systems. Bio Image. Circle 146.

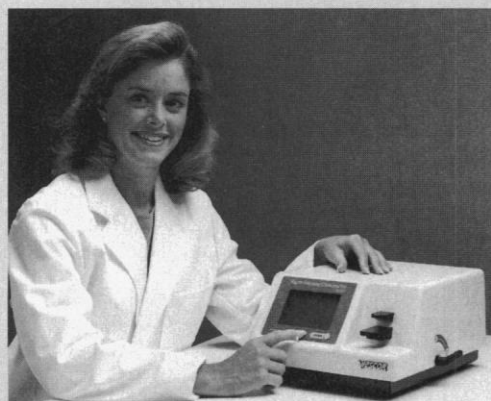
Literature

Counting Solutions is an application note on the preparation of environmental samples for liquid scintillation counting (LSC). The publication references published methods on extraction chromatographic techniques and presents compatible Packard Ultima Gold solutions used for the quantification of the prepared radioisotopes by LSC. Packard. Circle 147.

Methods of Moisture Content Determination is a 63-page brochure with specialized, practice-oriented background information. It contains tables, text, and plots that provide an overview of the measurement methods in use today. Mettler Toledo. Circle 148.

HPLC Column Manager is an eight-page brochure on a computerized system for tracking and managing high performance liquid chromatography columns. Phenomenex. Circle 149.

Protocols and Applications Guide is a detailed technical manual with 416 pages of information in the fields of molecular biology, cellular regulation, signal transduction, and neuroscience. Promega. Circle 150.



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Wang, X. et al. Matrix metalloproteinase inhibitor BB-94 inhibits human colon tumor growth and spread in a patient like orthotopic model in nude mice. *Cancer Res.* 54, 4726-28 1994

Hoffman, R. Orthotopic is orthodox: why orthotopic transplant metastatic models are different from all other models? *J. Cellular Biochem.* 56, 1-4, 1994



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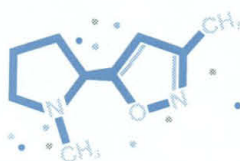
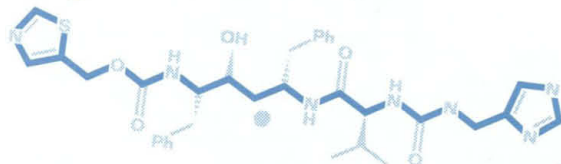
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3-Dimensional Pharmaceuticals, Inc., a company integrating cutting-edge technologies in **Structure-based Drug Design, Combinatorial Chemistry and Cheminformatics** to discover breakthrough pharmaceuticals, seeks individuals with outstanding qualifications in the following areas:

■ POSTDOCTORAL POSITIONS

Two postdoctoral positions are available immediately to join a multidisciplinary team of scientists working to elucidate the structure of G-protein coupled receptors (GPCRs) using X-ray crystallography. Applicants should be highly motivated, technically competent, creative and independent.

The first position will concentrate on refolding and purification of GPCRs with emphasis on developing affinity purification approaches amenable to large-scale production of protein for X-ray crystallography. Candidates with extensive experience in GPCR research and/or protein refolding and biochemistry are encouraged to apply. Special consideration will be given to applicants with some biophysics experience.

The second position will focus on genetic engineering of GPCRs for expression and X-ray crystallography. Candidates should have extensive experience in molecular biology, especially PCR and mutagenesis, and a good working knowledge of GPCR structure and function. Special consideration will be given to applicants experienced in protein biochemistry and in using modeling programs (e.g., Insight/Discovery, LOOK).

3DP is located in Exton, Pennsylvania, and offers a comprehensive compensation and benefits package. Qualified individuals are invited to send a resume with contact data for three references to: **3-Dimensional Pharmaceuticals, Inc., Eagleview Corporate Center, 665 Stockton Drive, Suite 104, Exton, PA 19341.**

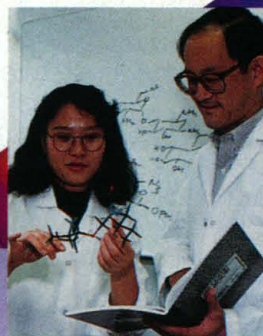


3-Dimensional Pharmaceuticals, Inc.

An equal opportunity employer.

"I enjoy working in a project team and being a part of a team working toward a unified goal. Our projects are challenging, interesting and medically important. At Bristol-Myers Squibb Pharmaceutical Research Institute, I work with bright colleagues who are motivated, committed and dedicated to their work."

**Denis Ryono, Ph.D.
Sr. Principal Scientist
Princeton, NJ**



"I do feel that research assistants are respected and very much a part of the team."

**Christa La Clair
Associate Research Scientist
Princeton, NJ**



***We are proud of the
individual efforts that contribute
to our valuable team environment.***



Bristol-Myers Squibb Company

Bristol-Myers Squibb Pharmaceutical Research Institute, the R&D division of Bristol-Myers Squibb, is currently expanding its Medicinal Chemistry Division. Our Drug Discovery area has integrated several scientific teams to strengthen and expand its effort in organic synthesis and combinatorial chemistry approaches. Under the direction of a supervising scientist, the selected scientists will be responsible for the synthesis of novel pharmacologically active compounds using organic synthesis techniques and combinatorial approaches.

We are seeking experienced and highly motivated scientists with BS or MS degrees in organic chemistry and a minimum of two years' relevant research experience. Candidates must possess sound knowledge of the practical and theoretical aspects of synthetic organic chemistry including familiarity with modern analytical

Medicinal Chemistry BS/MS

*Princeton, NJ and Wallingford, CT
Opportunities*

techniques for compound purification and characterization i.e., chromatography (TLC, Column Chromatography, HPLC) and spectroscopy (NMR, IR, MS).

Knowledge of Macintosh based software (ChemDraw, Word, Excel) is desirable. Good written and communication skills are necessary for concise documentation, presentations, and discussion of scientific results.

We offer competitive salaries and benefit programs, a highly collaborative environment, a network of multidisciplinary teams and a strong commitment to scientific integrity.

If you are interested in opportunities in Princeton, New Jersey, please forward/fax your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources, Dept. BM-611, P.O. Box 11279, Trenton, NJ 08620-0279. Fax: (609)581-8841.

If you are interested in opportunities in Wallingford, Connecticut, please forward/fax your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources, P.O. Box 5101, 5 Research Parkway, Wallingford, CT 06492-7661. Fax: (203) 284-7762.

Equal Opportunity Employer M/F/D/V



"Endemic in Bristol-Myers Squibb's corporate culture is a great deal of professional respect for BS/MS level scientists. I really enjoy it. I've worked here for six years and have been provided a lot of opportunity for professional growth."

**Scott Martin
Research Scientist
Wallingford, CT**

DISCOVER A WHOLE NEW APPROACH

Amgen, the world's largest biotechnology company, currently has the following opportunities within its **Boulder, Colorado** facility.

INFORMATION CONSULTANT

Job Code BPSC4567:

Position acts as an information consultant networking with internal Amgen, Boulder clients to provide access and training on appropriate information resources, and consults with clients on their needs. Applicant will typically have a BS in Chemistry or related field, with a MS in Library Science preferred, and 6-9 years of technical experience in a library setting including on-line searching experience. Experience should include: 3 or more years' searching chemical and biomedical databases; 3+ years' computing in Mac, Windows, or UNIX environments; 2+ years' with presentations, demonstrations, or teaching, and 2 years' searching the Internet. Applicant must have the ability and confidence to search STN databases (including substructure, reaction, and Markush searching) supporting basic research and the licensing/patenting of new molecular entities. Ability to work and make decisions independently, and perform effectively on corporate strategic teams essential.

RESEARCH ASSOCIATES (2 positions)

Job Code BPSC5506:

Position will assist the Senior-level Research Associates and Research Scientists in the synthesis, purification, and distribution of oligonucleotides for research use. Requirements include a BS/BA in Chemistry, Biology or a related field, and 1-2 years' laboratory research experience. Must be computer literate and have previous large-volume sample handling experience. Detail-oriented individuals with strong communication skills and a desire to work in a team environment preferred.

Job Code BPSC5721:

Position is responsible for conducting experiments, organizing data, and analyzing results. Requirements include a BS in Chemistry or related field, with a MS in Organic Chemistry preferred, and 5-10 years of related research experience. Successful applicant will have experience with synthesis, purification and identification of small organic molecules. Applicant must have previous experience using standard spectroscopic techniques and HPLC techniques, and be familiar with all standard laboratory synthetic transformations. Knowledge and experience with high-speed synthetic techniques desired.

RESEARCH SCIENTISTS (3 positions)

All positions are responsible for designing, implementing, and directing specific scientific experiments which significantly contribute to attaining goals jointly established by the Research Staff.

Job Code BPSC5725:

Requirements include a Ph.D. in Organic Chemistry or related field (preferably Synthetic Organic Chemistry), post-doctoral training or related experience, and typically 2 or more years of related experience in a research or laboratory setting. Successful applicant will have expert knowledge of synthetic organic chemistry with a proven track record of accomplishments supported by publications. Applicant must have good interpersonal communication skills. In addition, expert knowledge of medicinal chemistry, record of research proposals, and previous supervisory experience preferred.

Job Code BPSC5505:

Requirements include a Ph.D. in Chemistry or Life Sciences, and 2 or more years' related post-graduate research experience. Successful applicant will have a strong background in both solid-phase and solution-phase peptide chemistry, and general organic synthesis skills. Applicant must also have good communication skills, advanced scientific analysis and troubleshooting skills, and advanced laboratory work skills.

Job Code BPSC5722:

Requirements include a Ph.D. in Chemistry or related field, and 7 or more years' related research experience. Successful applicant will have a strong track record of technical expertise and accomplishment in the field of peptide synthesis and low molecular weight protein total synthesis. Applicant must have knowledge of solid phase methodology, purification, analytical, and spectroscopic techniques. Applicant must also have experience with non-routine peptide synthesis, and knowledge/experience with automation and computer operation.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen, Boulder, Human Resources, Job Code____, P.O. Box 19409, Boulder, CO 80308-2409. Please consult our on-line Job Bulletin Board at <http://www.bio.com> for information on other career opportunities available at Amgen. Principals only please.

EEO/AA Employer M/F/D/V.

AMGEN

Technical Services Manager

Promega Corporation, a world leading biotechnology company consistently recognized as one of Madison, Wisconsin's most progressive employers, has an immediate opening for an experienced Technical Services Manager to provide staffing, technical, and managerial leadership to our Technical Services Team. The Technical Services Team, which is staffed by advanced degree scientists, provides technical support to **Promega's** customers primarily via telephone, fax, and e-mail. The Technical Services Team is also responsible for providing customer feedback and product performance information to many other departments at **Promega**, including Quality Assurance, Marketing, Manufacturing, Sales, and Technical Writing.

The Technical Services Manager position requires a B.S. or M.S. in life sciences with a minimum of 2-3 years hands-on laboratory experience in Molecular Biology, Cell Biology, and/or Protein Biochemistry. Other requirements include proven ability to troubleshoot all applications related to **Promega's** complete product line and at least 3 years experience in a supervisory role or equivalent. Qualified candidates will be required to demonstrate a high degree of commitment to quality and excellence in customer service and technical support.

Also, qualified candidates must have demonstrated ability to make decisions on projects and goals for the department as well as on individual staff concerns and have the ability to manage group and individual projects that occur within the department and within other departments. Qualified candidates will also demonstrate effective interviewing and hiring skills as well as experience with team building. PC computer experience including Windows, Word, FoxPro, and Excel.

Promega, recently cited as one of "The Best Companies to Work for in Dane County" by *Business* magazine and designated as one of six "Companies to Watch" by *Working Mother* magazine, strives to provide a rewarding work experience for our employees and to provide unparalleled excellence, quality, and prosperity in our business. We seek to preserve a balance between work and life activities, reflected in our on-site fitness and daycare facilities and comprehensive benefit package. To apply, send a resume with salary requirements to: **Promega Corporation, Human Resources (16101D), P.O. Box 7879, Madison, WI 53707-7879**. To hear about current employment opportunities, please call our Career Opportunities Line at (608) 277-2539 or visit our web site at www.promega.com. EOE



Promega

CHEMISTRY

See chemistry recruitment advertisements in this issue of **SCIENCE**. The following organizations are recruiting chemistry professionals:

Abbott Laboratories

Amgen

Biogen

Bristol-Myers Squibb Pharmaceutical Research Institute

Chugai Biopharmaceuticals, Inc.

Corning Bio

DuPont

Genentech, Inc.

Karo Bio, Inc.

MIT

Oakland University

Pennsylvania State University

Pfizer, Inc.

Promega Corporation

Rhone-Poulenc Rorer

Schering-Plough Research Institute

St. Jude Children's Research Hospital

3-Dimensional Pharmaceuticals, Inc.

University of Central Florida

University of Massachusetts Boston

University of Texas-Houston

SCIENCE
<http://www.sciencemag.org>

Procter & Gamble

PHARMACEUTICAL RESEARCH

TECHNICAL LEADERSHIP POSITIONS

The Musculoskeletal and Cardiovascular Research Groups of Procter & Gamble Pharmaceuticals have several openings for senior-level research scientists in our R&D laboratories in Cincinnati, Ohio, at our new \$280 million Health Care Research Center. We are seeking established investigators who have made important research discoveries, and who are recognized by peers as leading thinkers and contributors to their respective scientific fields. Successful candidates will have an M.D. or Ph.D. degree in the appropriate field, an outstanding publication record, and a minimum of seven years relevant research experience beyond the doctoral degree.

*No agency referrals, please.
Equal Opportunity
Employer*

• Research Program Director, Vascular Biology

The successful candidate will be an established senior researcher in the field of vascular biology with 4-8 years of independent investigation beyond the postdoc. This individual will build and lead a discovery group that is focused on biochemical and molecular biological mechanisms mediating normal and pathological vessel development including receptor-ligand interaction, signal transduction and gene regulation. This person will also discover and champion molecular approaches to therapies for preventing myocardial damage that occurs after acute and/or recurrent episodes of ischemia and reperfusion. The ideal candidate will have extensive experience in the cell and molecular biology of the cardiovascular system and a clear track record of expertise in the diverse cellular and physiological mediators controlling processes such as angiogenesis, atherosclerosis, restenosis, and other inflammatory responses of the endothelium.

• Research Program Director, Skeletal Muscle Biology

The successful candidate will be a leading researcher in the field of skeletal muscle biology with 4-8 years of independent investigation beyond the postdoc. This role will establish and lead a program in basic discovery leading to novel therapeutics for muscle atrophy. The incumbent will have responsibilities for multiple research projects and will direct other scientists. Individuals with specialization in the fields of cell and developmental biology, molecular biology, neuromuscular biology, or molecular endocrinology with expertise in mechanisms involved in skeletal muscle atrophy and repair are strongly encouraged to apply. Industry experience is not essential; however, supervisory experience and outstanding leadership skills are required. A clear track record of innovation and productivity is required.

• Senior Research Scientist, Skeletal Muscle Biology

The position requires an established research leader in skeletal muscle cell or molecular biology, neuromuscular biology, or molecular endocrinology with 2-3 years of independent investigation beyond the postdoc. The successful candidate will have responsibilities for conducting research leading to the identification of targets for treatment of skeletal muscle atrophy. Required skills include a working knowledge of modern molecular genetic profiling techniques and/or transcription assay design. The ideal candidate will have expertise in cell and molecular mechanisms involved in wasting and repair of skeletal muscle. Previous industry experience is not essential. Good oral and written communication and leadership skills are required.

Procter & Gamble Pharmaceuticals is the ethical drug division of a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual worldwide sales exceed \$35 billion and our R&D budget is over \$1.4 billion/year. In addition to being a leading OTC health care marketing company, we have a growing prescription drug business in the musculoskeletal, anti-infective, and cardiac areas. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms.

For confidential consideration, please send a letter of introduction, CV, and list of publications to:

Dr. G.D. Owens
The Procter & Gamble Company
Doctoral Recruiting, Dept. BKC
P.O. Box 538707
Cincinnati, Ohio 45253-8707



REWARDING CAREER OPPORTUNITIES. AWARD-WINNING DISCOVERIES. THIS IS AMGEN...

Recognized as the world leader in the development and delivery of innovative, cost-effective therapeutics, Amgen's ground-breaking advances in cellular and molecular biology offer unlimited potential for significant discovery. Our facility in **Thousand Oaks, CA** has experienced tremendous growth. We are initiating a program in Small Molecule Drug Discovery that is focused on medicinal chemistry, molecular pharmacology and high throughput screening involving a variety of therapeutic areas.

We have immediate openings for experienced database designers in the following areas:

ISIS DATABASE ANALYST/PROGRAMMER

Primarily, you will design, implement and maintain ISIS chemical structure databases for our Small Molecule Chemistry Group. Your responsibilities will also include exchanging data with relational databases, such as ORACLE, using gateway utilities.

A BS in Computer Science or an advanced degree in Chemistry, and 3 years' experience designing MACCS and ISIS databases is required. A solid background in relational database development is critical. Strong written and communication skills and the ability to work effectively with a multi-disciplinary, collaborative team are essential.

COMPUTATIONAL SCIENTIST

Using 4th Dimension or a related GUI product, the selected individual will design and develop user interfaces to relational databases in support of the Small Molecule Chemistry group. You will track data and design reports for all aspects of the group's work which includes: reagent tracking, planning combinatorial chemistry syntheses, coordinating high throughput screening results, interacting with lab automation, and information exchange with molecular modeling programs.

A Ph.D. in Organic Chemistry, Biochemistry or equivalent and 2 years' experience in programming high-level languages such as C, Fortran or Pascal are required. Competency in general methods of organic synthesis and analysis, or in methods of compound screening to discover novel small molecule drugs is a must. Experience working with relational databases is essential, as is the ability to work well in a team environment. Previous experience using the ISIS chemical structure database systems, ORACLE, or Sybase SQL databases is preferred.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and 3 weeks' vacation. For immediate consideration, mail your resume to: **Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: jobs@amgen.com.** Consult our on-line Job Bulletin Board at amgen.bio.com for more information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V



The University of Washington COLLEGE OF FOREST RESOURCES

9-Month Tenure-Track Assistant Professor Positions

The University of Washington College of Forest Resources invites applications for two 9-month tenure-track assistant professor positions. The successful applicants' teaching and research programs are expected to contribute to an increasing emphasis on interdisciplinary approaches within the College and with other University programs. The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. Although the College is seeking persons at the assistant professor rank, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the rank of associate professor or professor.

Wildlife Science

This position offers opportunities for a broadly trained vertebrate ecologist with experience in wildlife-habitat relationships and/or population ecology related to forest management.

Responsibilities: Develop a 3-quarter teaching profile, including courses in a vertebrate ecology specialty and in wildlife-forest relationships, and assistance in other undergraduate courses. Advise graduate and undergraduate students. Participate in public and professional outreach programs of the College. Develop a personal research program.

Requirements: Ph.D. in wildlife science or related field.

Application Closing Date: October 1, 1996. To apply, send a letter of application, resume/vitae, transcripts, and three (3) letters of reference to **Dr. David A. Manuwal, Chairman, Wildlife Science Search Committee, University of Washington, College of Forest Resources, Box 352100, Seattle, Washington 98195-2100. E-mail: auklet@u.washington.edu.**

Landscape Plant Science and Management

This position offers opportunities to pursue teaching, research, and public service in landscape plant science, particularly management and selection of plants for human-dominated landscapes.

Responsibilities: Develop a 3-quarter teaching profile, including Landscape Plant Management and other courses supporting the graduate and undergraduate programs of the Division of Urban Horticulture (e.g., part of Restoration Ecology) as well as interdisciplinary programs in the College and the University. Direct graduate students, technical staff, and postdoctoral fellows, as appropriate. Participate in public and professional outreach programs of the College. Contribute to the management of the Center for Urban Horticulture's live plant collections at the Washington Park Arboretum, Union Bay Gardens, and Union Bay Natural Areas. Develop a personal research program in such areas as horticultural physiology, physiological effects of alternative management practices, evaluation of physiological ranges of landscape plants, characterization and classification of urban planting sites, plant testing and evaluation, production of native plants for habitat restoration, and introduction to the landscape industry.

Requirements: Ph.D. in horticulture, urban forestry, botany, ecology, or related field, including significant training in whole-plant physiology, and a record indicating actual or potential leadership in landscape plant science.

Application Closing Date: October 1, 1996. To apply, send a letter of application, resume/vitae, copies of official transcripts, statement of research interests (including an assessment of critical issues in the field), and three (3) letters of reference to **Dr. Kern Ewing, Chairman, Landscape Plant Science and Management Search Committee, University of Washington, College of Forest Resources, Center for Urban Horticulture, Box 354115, Seattle, Washington 98195-4115.**

CNS DRUG DISCOVERY at Schering-Plough

From molecules to medicines. At the Schering-Plough Research Institute, scientists are discovering and developing the novel therapeutics that challenge humankind's most debilitating diseases. To continue this important work, we have several openings for talented scientists to join an expanding multidisciplinary group focused on molecular targets for CNS disorders. Candidates must have a PhD, at least 3 years of postdoctoral experience, a strong record of scientific achievement and the ability to initiate and direct an independent research program.

SENIOR SCIENTIST/ PROTEIN BIOCHEMIST

Excellent opportunity for a Senior Scientist with extensive experience in protein biochemistry and enzymology to work on the characterization and purification of proteases involved in the metabolism of the amyloid precursor protein. Background must include demonstrated expertise in protein purification, enzyme assays, enzyme kinetics, ELISA techniques and antibody generation. Experience in the purification and characterization of membrane proteins is a plus. Additional experience in basic molecular biology techniques, particularly protein expression in prokaryotic and eukaryotic systems, is desirable. To be considered for this position, please reference Dept. DMS/EP-PB/SS.

SENIOR SCIENTIST/ CELL BIOLOGIST

We are seeking a Cell Biologist with a strong background in neurobiology to study the molecular and cellular mechanisms responsible for neuronal degeneration in cerebral ischemia and Alzheimer's disease. Background must include experience with primary neuronal cultures, mammalian cell culture, ELISA techniques, antibody generation, immunocytochemistry, signal transduction assays and basic molecular biology techniques. To be considered for this position, please reference Dept. DMS/EP-CB/SS.

SENIOR SCIENTIST- MOLECULAR BIOLOGIST/ ELECTROPHYSIOLOGIST

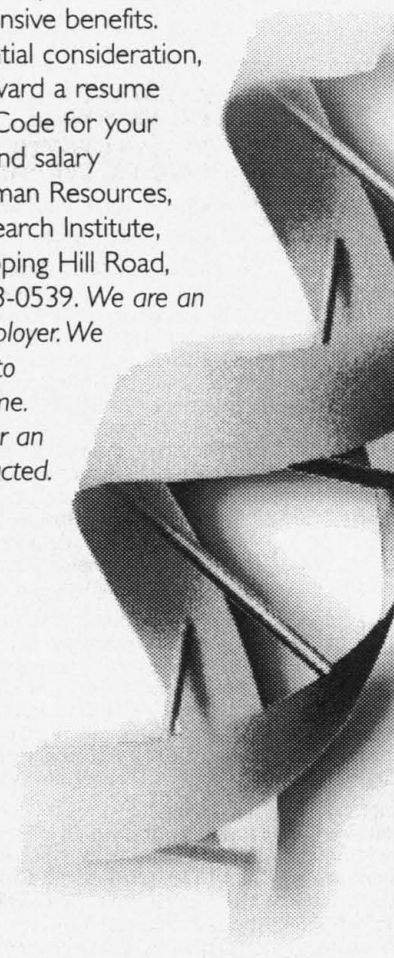
We are seeking a Molecular Biologist with additional expertise in electrophysiology to work on the cloning and electrophysiological characterization of novel drug discovery targets. Background must include extensive experience in all common molecular biological techniques such as cDNA library construction and screening, polymerase chain reaction, site-directed mutagenesis, Northern and Southern blotting and expression of cloned genes in prokaryotic and eukaryotic cells. The ability to express and electrophysiologically characterize novel cDNA clones in the *Xenopus* oocyte expression system is also essential. To be considered for this position, please reference Dept. DMS/EP-MB/E/SS.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources, Schering-Plough Research Institute, MS 1255, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. *We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



**Schering-Plough
Research Institute**

Using Science For Human Advantage



MANAGER/Hemostasis R&D

Ortho Diagnostic Systems Inc. provides reagent and instrument systems to hospital and commercial clinical labs and blood donor centers. We're a fast-moving and growing company within Johnson & Johnson, the world's largest and most comprehensive manufacturer of health care products with over \$18 billion in annual sales.

We have an immediate opportunity in CENTRAL NEW JERSEY (midway between New York City and Philadelphia) for a candidate with a Ph.D. in biomedical/medical science and 9+ years of experience in the diagnostic industry, including a strong background in hemostasis. Experience with instruments, reagent systems and a background in immunoassay development are required. A publication record and excellent communication skills are requisite as we will look to you to prepare reports and technical reviews and make presentations at scientific meetings.

The successful candidate will have demonstrated management skills and the ability to work in a team environment managing research personnel and assisting in directing internal and external research programs. Interpersonal skills are needed to work with QA, Manufacturing and Product Support to maintain reagent quality. Responsibilities include budget management and the identification of new product opportunities.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan, and our LIVE FOR LIFE Wellness Program with on-site fitness center. To apply, please send a copy of your resume suitable for scanning into our database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 812, Johnson & Johnson Recruiting, P. O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the work place.



Ortho Diagnostic Systems Inc.
a Johnson & Johnson company

Discovering the future. Delivering its promise.

CHEMISTRY

The University of California, San Diego, Department of Chemistry and Biochemistry invites applications for several tenure track and tenured faculty positions in biochemistry at the Assistant or Associate Professor level. Candidates must have a Ph.D. and a demonstrated ability for creative research and teaching at the undergraduate and graduate levels. The committee is interested in receiving applications from chemists, biochemists, structural biochemists, and molecular biologists. Applicants will be considered in all areas, but the committee is particularly interested in applicants with an expertise in three areas: macromolecular structure, cell proliferation and growth control, and RNA. Salary commensurate with qualifications and based on University of California pay scale. Positions subject to availability of funds. Candidates should send a curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans, and names and addresses of three references to: **Chair, Biochemistry Search Committee 3-277, University of California, San Diego, Department of Chemistry and Biochemistry - 0332, La Jolla, CA 92093-0332.** The deadline for applications is October 15, 1996, but until positions are filled all applications received will be assured full consideration. *The University of California is an equal opportunity/affirmative action employer.*



ASSISTANT OR ASSOCIATE PROFESSOR

HUMAN GENETICIST/MOLECULAR GENETIC EPIDEMIOLOGIST

University of Cincinnati Medical Center
Cincinnati, Ohio

A full-time tenure-track faculty position is available immediately. The primary department for this appointment is the Department of Environmental Health in the College of Medicine; joint appointments with other Departments in the College (e.g., Pediatrics, Internal Medicine, or Pathology) could be negotiated. Candidate must have an M.D. or Ph.D. degree, at least 2-3 years of postdoctoral experience in molecular biology and genetics, and preferably an active/funded research program in human genetics and epidemiology. Additional research experience in the interaction between genes or gene products and occupational and/or environmental agents is strongly preferred. Primary criteria for level of appointment will include a relevant publication record in peer-reviewed journals, demonstrated ability through grant awards for significant population/clinical research, and evidence of successful teaching through student evaluations.

It is intended that the candidate join in the expansion of an existing research program in ecogenetics, and collaborate with other investigators having similar interests and objectives, specifically in the design and conduct of clinical and population studies of environmental exposures, in order to identify potentially high-risk subpopulations. Interdepartmental collaborations, through the Center for Environmental Genetics and the University of Cincinnati Medical Center, are very much encouraged.

Interested candidates should forward a curriculum vitae, a list of publications, a summary of research interests, and three letters of recommendation to: **Daniel W. Nebert, M.D., or Grace Lemasters, Ph.D., Department of Environmental Health, University of Cincinnati, P.O. Box 670056, Cincinnati, OH 45267-0056.** Applications must be received by August 31, 1996. *The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.*

Much of the success of Bayer Corporation, Pharmaceutical Division, is based on innovation and research. At the same time, all of our success is based on the talent and drive of our people. As an integral part of Bayer, a \$26.8 billion global leader, we have the resources to provide our employees with a supportive, state-of-the-art, multidisciplinary environment that encourages their professional growth and makes our success possible. Join our dedicated team of professionals in the following positions in our Scientific Affairs Group:

Scientific Editor

You will plan, develop, write, revise, produce and place articles and other publications in the scientific press and medical literature based on Bayer strategies and objectives. You will also plan, develop and implement continuing education programs and materials in accordance with Bayer strategies and in conjunction with professional societies and continuing education agencies, as well as develop and implement appropriate US components of the international publication strategies and objectives.

A strong scientific/medical background, a PhD or PharmD in a scientific/medical discipline, plus a minimum of five years of experience in a related scientific/medical/pharmaceutical area required. A minimum of four years of experience must include medical writing. Demonstrated ability to interpret scientific and clinical trial data, strong scientific writing ability and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self-starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals along with knowledge of computerized bibliographic, abstract, and database services necessary.

Medical Writer

You will write, edit and submit articles in scientific and medical journals based on Bayer strategies and objectives. Using your strong scientific background, you will develop, execute and coordinate continuing education programs and materials, implement specific communication strategies (manuals, abstracts, posters, slides, lectures and symposia) and perform bibliographic electronic database searches. To qualify, you should possess a BS/BA in a science or health related field and a minimum of 5 years' experience as a medical writer in a related area; or a MS and a minimum of 3 years' medical writing experience. This position requires excellent communication skills and the ability to handle a variety of projects simultaneously. A high degree of organization and computer skills are necessary.

We offer attractive compensation and generous benefits. For immediate consideration, please forward a resume, including salary history, to: **Bayer Corp., Pharmaceutical Division, Dept. MO-C28-AB, 400 Morgan Lane, West Haven, CT 06516.** No phone calls please. An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to creating and maintaining cultural diversity within our work environment.

Bayer

Pharmaceutical
Division

Pharmaceutical Discovery

RHÔNE-POULENC RORER, one of the world's leading pharmaceutical companies, is seeking highly motivated, team oriented scientists to join our U.S. Pharmaceutical Discovery team devoted to the discovery of innovative cardiovascular and bone products. These challenging opportunities are available at our state-of-the-art facility located in Collegeville, Pennsylvania - in the western suburbs of Philadelphia.

BONE METABOLISM

BIOCHEMISTS

Requires a Ph.D. with 0-6 years postdoctoral experience. Candidates should possess a strong knowledge and technical ability in biochemistry and enzymology with an established publication record in this area. A minimum of 2 years bone biology experience also necessary. **Respond to position B-1.**

CELLULAR BIOLOGISTS

Requires a Ph.D. with 0-6 years postdoctoral experience. Candidates should possess a strong knowledge and technical ability in molecular and cell biology with an established publication record in this area. A minimum of 2 years bone biology experience also necessary. **Respond to position B-2.**

CELLULAR BIOLOGISTS

Requires an M.S. and 2-5 years experience with cell culture techniques or a minimum of 5 years experience with cell culture and basic molecular techniques. Experience in bone biology is preferred. **Respond to position B-3.**

BIOCHEMISTS

Requires an M.S. and 2-5 years experience working in a biochemistry and molecular biology environment. Experience in bone biology is preferred. **Respond to position B-4.**

Rhône-Poulenc Rorer offers a competitive compensation and benefits package. For confidential consideration, please submit ONE copy of your resume/CV along with the position(s) you are applying to:

**Rhône-Poulenc Rorer Research & Development
Human Resources, Mail Stop H37
Position(s) _____, P.O. Box 5096
Collegeville, PA 19426-0800**

CARDIOVASCULAR BIOLOGY

CELLULAR BIOLOGISTS

Requires a B.S./M.S. and 1-5 years laboratory experience. Candidates should possess a strong knowledge of cell culture techniques. A background handling adenoviruses desired. **Respond to position C-1.**

MOLECULAR BIOLOGISTS

Requires a B.S./M.S. and 1-5 years experience working in a research laboratory. Candidates should possess a strong knowledge of molecular biology, gel electrophoresis/protein RNA blots, immunological/radiochemical assays, and cell culture techniques. Some cardiovascular pharmacology experience is also necessary. **Respond to position C-2.**

BIOLOGISTS

Requires a B.S./M.S. and 1-5 years experience working in a research laboratory, which must include performing in vivo and in vitro experiments. A strong knowledge of biochemistry and cell biology is also necessary. **Respond to position C-3.**

PHARMACOLOGISTS/BIOLOGISTS

Requires a Ph.D. and 2 years postdoctoral experience using in vivo models of atherosclerosis and thrombosis. Candidates should possess a demonstrated record of accomplishment in thrombosis or atherosclerosis research. **Respond to position C-4.**

PHARMACOLOGISTS

Requires a Ph.D. and 4-6 years postdoctoral experience in drug discovery and an accomplished record of achievement and expertise in the area of in vivo models of cardiovascular disease, including ischemic heart disease, PVD, and heart failure. Candidates should possess detailed knowledge of the pathophysiology of these disease states and an understanding of cellular and molecular biology and enzymology. **Respond to position C-5.**

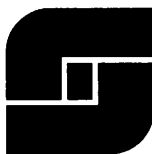
BIOCHEMISTS/CELL BIOLOGISTS

Requires a Ph.D. and 2 years postdoctoral experience in cell biology, cell biochemistry, or molecular biology. Candidates should possess an accomplished record of achievement and expertise in the development and application of novel assays to detect and quantify levels of proteins/nucleic acids in cells and tissues. Involvement in cardiovascular disease research projects and a background working in the areas of ischemic heart disease and heart failure required. A sound understanding of cardiovascular physiology and pharmacology is also necessary. **Respond to position C-6.**



RHÔNE-POULENC RORER

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



CRYSTALLOGRAPHIC POSTDOCTORAL FELLOW

Southern Research Institute has a challenging opportunity for a **Crystallographic Postdoctoral Research Fellow** in our Life Sciences Division. Southern is a world class non-profit research center with annual revenues exceeding \$32 million. The Life Sciences Division conducts basic research on anti-cancer and anti-infective drugs, including the design, synthesis and evaluation of drug candidates, as well as pre-clinical drug development studies, including drug formulation, toxicology and pharmacology.

This NIH-funded position will focus on the crystal structure analysis of compounds bound to *Toxoplasma gondii* HGPRT. Crystals that diffract to 1.7 Å resolution are in hand. This position is part of a larger project to design novel drugs to treat Toxoplasmosis. The project also includes the production and characterization of mutant and chimeric HGPRTs, and the synthesis and testing of inhibitors. Other crystal-structure based drug design projects in the laboratory focus on *Pneumocystis carinii* DHFR, *T. gondii* DHFR-TS and UPRT, and *Plasmodium falciparum* HGPRT.

Successful candidates will be highly motivated, have a Ph.D. in Protein Crystallography, demonstrated experience in the determination of protein crystal structures, and should be interested in Structure-Based Drug Design. Experience with data collection at synchrotron radiation sources is a plus.

Interested candidates should mail or fax their CV and the names, addresses and telephone numbers of three references to: **Jeff Prince, Human Resources Dept. 162, Southern Research Institute, P.O. Box 55305 Birmingham, AL 35255-5305, Fax: (205) 581-2200.**

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Cardiovascular Thrombosis Research Scientist

As part of our multi-disciplinary Cardiovascular Disease Research Group, you will be an integral part of thrombosis and anticoagulation research. We seek a Ph.D. researcher with an established reputation, post-doctoral experience and publication track record in the areas of thrombosis, platelet biology and hemostasis. You'll also need excellent communication skills, an ability to prioritize your work and demonstrated integrity and trustworthiness. An ability to resolve conflicts and encourage individuals to take responsibility is a must.

There's only one thing more diverse than our business units and that's our talented group of professionals. To join them in a unique environment that's specifically designed for communication and innovation, send your resume to: **MONSANTO COMPANY, LMH, Human Resource Department, Job # CTRS, 800 N. Lindbergh, Mail Zone C3ND, St. Louis, MO 63167. EOE.**

SEARLE



Oregon Health Sciences University Biochemistry & Molecular Biology ASSISTANT PROFESSORS (2)

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We wish to recruit outstanding young scientists studying problems of central interest to biochemists and molecular biologists.

We will offer attractive start-up packages, competitive salaries, and the opportunity to participate in the growth and development of a dynamic and interactive department in a highly desirable location. Faculty will be expected to establish competitive research programs and assist in graduate and medical school teaching. Applicants at the Assistant Professor level should have a Ph.D. with several years of postdoctoral experience. Applications should be received by September 30, 1996.

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

**Professor Jack H. Kaplan, F.R.S.
Faculty Search**

**Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road, L224
Portland, OR 97201-3098**

OHSU is an Affirmative Action/Equal Opportunity Employer.

Postdoctoral/Professional Researcher Fellowships in the Department of Anatomy and Neurobiology University of California, Irvine

Several positions for research in individual laboratories are available at the postdoctoral and professional researcher series level as follows:

Tallie Z. Baram, M.D., Ph.D.	Cellular mechanisms of developmental epilepsies; the developmental neurobiology of stress.
Robert H. Blanks, Ph.D.	Eye movements/posturography.
Anne L. Calof, Ph.D.	Molecular mechanisms regulating neurogenesis and programmed cell death.
James H. Fallon, Ph.D.	Chemical neuroanatomy, transmitters and growth factors.
Christine M. Gall, Ph.D.	Neurotrophic factors, neuronal gene expression, functional neuroanatomy.
Roland A. Giolli, Ph.D.	Visuomotor system; structure/function relationships.
Edward G. Jones, M.D., Ph.D.	Transmitter regulation in primate cerebral cortex; neuropathology of schizophrenia.
Leonard M. Kitzes, Ph.D.	Auditory system anatomy and physiology.
W. Ian Lipkin, M.D.	Neurotropic viruses and viral pathogenesis, Borna disease virus.
Diane K. O'Dowd, Ph.D.	Regulation of electrical excitability and synaptic connectivity in the developing nervous system.
Charles E. Ribak, Ph.D.	Epilepsy, neurotransmitters and hippocampal circuits.
Richard T. Robertson, Ph.D.	Developmental neurobiology of cerebral cortex.
Martin A. Smith, Ph.D.	Regulation of gene expression during synapse formation.
Ivan Soltesz, Ph.D.	Plasticity of cortical inhibition.
John E. Swett, Ph.D.	Spinal cord and peripheral nervous system.
John H. Weiss, M.D., Ph.D.	Glutamate receptors, calcium, and mechanisms of selective neurodegeneration.

Interested applicants should send curriculum vitae to: **Dr. Richard T. Robertson, Professor and Chair, Department of Anatomy and Neurobiology, University of California, Irvine, CA, 92697-1275**

University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.



Public Announcement Regarding a New Research and Development Project on "Technology for Novel High-Functional Materials"

Announced by the New Energy and Industrial Technology Development
Organization on August 16, 1996

In order to promote the research and development of industrial technology, the New Energy and Industrial Technology Development Organization (NEDO), under the Industrial Science and Technology Frontier Program of Ministry of International Trade and Industry's Agency of Industrial Science and Technology, will entrust each of the following research themes for the "Technology for Novel High Functional Materials" project. Therefore, we would like to announce that all interested companies and research organizations can apply to participate in this entrusted project in compliance with the description below.

Themes of the Research and Development Project

"Advanced Stimuli Responsive Materials;" "Precision Catalytic Polymerization;" "Polymer Structure Control;" "Multi-dimensional Polymer Structures."

Outline of the Research and Development Work to be Entrusted

The purpose of the research and development of "Advanced Stimuli Responsive Materials" is to achieve the expression of stimuli responsive type separation/release/motion functions and to refine them, and to realize synthesis and organization of a polymer, which continuously changes its shape/properties according to changes in the condition of a molecular aggregate depending on a stimulus, and hybridization of stimuli responsive polymers and different types of materials. As for "Precision Catalytic Polymerization," the goal is to develop polymerization catalysts and innovative precise addition polymerization that accurately controls the primary structure of molecular weight, stereoregularity, copolymerization, terminal structure, etc. The objective of the research and development of "Polymer Structure Control" is to develop precise structure-controlled polymer synthesis technology by controlling condensation and ring-opening reactions at the atomic/molecular level. The objective of the research and development of "Multi-dimensional Polymer Structures" is to generate precise synthesis technology using enzymatic catalysts and chemical synthesis technology for producing polymers with non-covalent bond linkages and new topological structures.

Procedures for Application

(1) Qualification Criteria

All companies or research organizations who meet the following qualification criteria may submit applications to participate in the above project.

1. The applicant must be a company or organization having human resources who are experienced and well-qualified to carry out the research and development in the field covered by or related to the project.
2. The applicant must be in sound financial condition and have the ability to manage finances as necessary to fully 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 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 the 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: Thursday, August 22, 1996
Time: 11:00-12:00
Place: NEDO's Head Office, Meeting Room 360
31st Floor, Sunshine 60 Building
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
Telefax: +81-3-5992-1184

POSITIONS OPEN

The University of Texas-Houston Health Science Center, Dental Branch announces the reopening of the search for a **CHAIRPERSON** for the Department of Basic Sciences at the level of professor. The department currently has 35 faculty members and encompasses gross anatomy, histology, neurosciences, genetics, biological chemistry, immunology, microbiology, physiology, pharmacology, and oral biomaterials. Desired credentials include a Ph.D. or equivalent, demonstrated administrative and teaching experience, current funded research, and experience in training graduate students. The selected candidate will assume a leadership role in the integration of basic and clinical teaching and research.

The UTHHSC is located in the Texas Medical Center and comprises the Dental Branch, Medical School, School of Nursing, School of Public Health, Graduate School of Biomedical Sciences, and School of Allied Health Sciences. There are excellent opportunities for collaborative research, teaching, and student research training.

The UTHHSC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Additional information about the Dental Branch is available at our WWW site: <http://www.db.uth.tmc.edu>. Interested persons should send a letter of application, curriculum vitae, and names of four references by November 1, 1996, to:

Dr. Karen A. Storthz

Associate Dean for Research

University of Texas-Houston Health Science Center
Dental Branch

6516 John Freeman Avenue Room 4.109

Houston, TX 77030

Email: kstorthz@bte.db.uth.tmc.edu

FACULTY POSITION

Division of Basic Sciences

Fred Hutchinson Cancer Research Center

The Division of Basic Sciences of the Fred Hutchinson Cancer Research Center (FHCRC) is soliciting applications to fill an open faculty position at the **JUNIOR FACULTY** level. Applicants with outstanding accomplishments in any field of molecular, cellular, and/or developmental biology will be considered. Candidates should send a curriculum vitae, a concise statement of their research plans, and three letters of reference to:

Faculty Search Committee

Fred Hutchinson Cancer Research Center

Division of Basic Sciences

Mailstop: B1-030

1124 Columbia Street

Seattle, WA 98104

Application deadline: October 31, 1996.

FHCRC is an Equal Opportunity Employer committed to workforce diversity.

Chemistry Department, University of Utah. Applications are invited for a tenure-track **FACULTY POSITION** in the area of inorganic chemistry. Candidates must have the background, ability, and motivation to establish vigorous, competitive contemporary research programs and to excel as educators.

The appointment is anticipated to be filled at the junior level, but senior candidates will be considered. A Ph.D. is required, and postdoctoral experience is desirable. Applicants should have three letters of recommendation sent directly to the search committee. Initial correspondence should include a detailed curriculum vitae and a statement of proposed research. Reply to: **Inorganic Search Committee, Department of Chemistry, 2040 Henry Eyring Building, University of Utah, Salt Lake City, UT 84112.** Deadline for receipt is October 14, 1996, or until a suitable candidate is identified. *The University of Utah is an Affirmative Action/Equal Opportunity Employer, encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.*

The Department of Biology, University of Puerto Rico, Rio Piedras invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. The candidate is expected to develop an active research program in plant molecular systematics or related field, to supervise a shared molecular systematics research facility, and to teach at the graduate and undergraduate level. Candidates must hold a Ph.D. and have postdoctoral experience. Interested persons should send résumé, statements of teaching interests and research goals, and three letters of reference before October 4, 1996, to: **Dr. James D. Ackerman, Recruitment Chair, Department of Biology, University of Puerto Rico, P.O. Box 23360, San Juan, PR 00931-3360.** *University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CENTER FOR STRUCTURAL BIOLOGY STATE UNIVERSITY OF NEW YORK AT BUFFALO X-Ray Crystallographer

As part of a multidisciplinary initiative in Structural Biology, a tenured position is available at the **ASSOCIATE** or **PROFESSOR** level for a structural biologist whose principal experimental activity is the determination of molecular structure by high resolution x-ray crystallography. The individual should have the expertise to determine the crystal structures of large macromolecules using state-of-the-art methods including multiple isomorphous replacement, MAD phasing, and molecular replacement approaches. Knowledge and expertise in supporting technologies such as crystal growth, protein purification and molecular biology are required. A demonstrable record of sustained externally-funded programs for x-ray based research in structural biology is essential. These programs should have an underlying biomedical theme. Responsibilities will include development and maintenance of externally-funded research programs in structural biology, participation in teaching programs of the University and engagement in collaborative interactions with the University faculty under the umbrella of the Center for Structural Biology. Résumés and names of three persons willing to write letters of recommendation should be sent by November 1, 1996, to: **Dr. Robert J. Genco, Chair, Search Committee, State University of New York at Buffalo, 3435 Main Street, 115 Foster Hall, Buffalo, NY 14214-3092.** *The State University of New York at Buffalo is an Equal Opportunity Employer. Minorities and women are encouraged to apply.*

The University of Georgia College of Agricultural and Environmental Sciences seeks applicants for the **HEAD OF THE DEPARTMENT** of Entomology. A Ph.D. in Entomology or related field as well as demonstrated excellence in and/or understanding of extension, teaching, and research programs is required. Interested applicants should, before December 1, contact: **Dr. Gary A. Couvillon, Department of Horticulture, University of Georgia, Athens, GA 30602.** *Women and minorities are encouraged to apply. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.*

CRYOCELL INTERNATIONAL INC.

Laboratory Director, Ph.D.

Five to ten years of experience in cell biology with knowledge of tissue typing, to head new laboratory at the company's world headquarters near Tampa. Position entails sorting and cryopreservation of hemopoietic and other tissues, development of research program, training of technicians, and representing the company to visiting customers. Excellent writing and speaking skills required, with experience in management. Experience in separation of hemopoietic cells desirable. Salary \$65,000-75,000 with stock options. Send curriculum vitae with list of publications and three letters of reference to:

Stephen Wachtel, Ph.D.

Department Ob-Gyn/University of Tennessee

853 Jefferson Avenue

Memphis, TN 38103

ASSISTANT PROFESSOR BIOCHEMISTRY

Applications are invited for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the Department of Chemistry and Biochemistry at Utah State University. The successful applicant will actively participate in the Ph.D. degree program in biochemistry and will be expected to develop a nationally recognized research program that complements our existing faculty interests. Applicants working on metals and free radicals in protein and nucleic acid biochemistry are encouraged to apply. Teaching responsibilities will include undergraduate and graduate biochemistry and general chemistry courses. A Ph.D. degree and postdoctoral experience are required. A curriculum vitae, outline of planned research, statement of teaching philosophy, and three letters of recommendation should be sent to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, Utah State University, Logan, UT 84322-0300.** Review of completed applications will begin 15 October 1996 and will continue until the position is filled. Logan is located in the scenic Cache Valley, which offers rural and small city living adjacent to outdoor recreation areas. *Utah State University is an Equal Opportunity/Affirmative Action Employer, and applications from women and minorities are encouraged.*

POSITIONS OPEN

MARINE MICROBIOLOGIST

The Department of Microbiology, University of New Hampshire is seeking applicants for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level beginning in January 1997. The successful candidate must possess a Ph.D. in microbiology or closely related area and will be expected to have a strong commitment to obtaining extramural research support. Preference will be given to individuals with research interests in marine microbiology. In addition he or she will have an active role in the undergraduate as well as M.S. and Ph.D. graduate programs in the department. Postdoctoral experience is desirable but not essential. The University of New Hampshire is a Land Grant/Sea Grant/Space Grant institution. The Microbiology Department occupies excellent research and teaching space in a newly constructed biological sciences complex. Teaching responsibilities constitute 60 percent of the appointment and will include a course in Marine Microbiology and a General Education course in Public Health Microbiology. Additional academic responsibilities will include such activities as undergraduate student advising, supervision of undergraduate independent studies, and committee activities.

Interested individuals should send a curriculum vitae, a brief statement of research interests, representative publications, and the names of at least three references by September 30, 1996, to: **Robert M. Zsigray, Professor and Chair, Department of Microbiology, Rudman Hall, University of New Hampshire, Durham, NH 03824-2617.** Information regarding the Department can also be obtained from our home page (<http://microbiology.unh.edu>). *The University of New Hampshire is an Equal Opportunity/Affirmative Action Employer. Underrepresented minorities and female applicants are strongly urged to apply.*

ASSOCIATE PROFESSOR/PROFESSOR Stanford University School of Medicine

The Division of Otolaryngology/Head and Neck Surgery invites applications for a Ph.D. or M.D. director of the Liem Sioe Liong Molecular Biology Laboratory at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level. The individual will direct and conduct independent research in pathogenesis of head and neck diseases. Opportunity exists for collaborative interdepartmental research with other investigators at Stanford University Medical Center.

Qualifications include the Ph.D., M.D., or equivalent degree; completed postdoctoral fellowships in either molecular biology, genetics, tumor immunology, or cancer biology; advanced training with evidence of productivity in research; and a commitment to teaching. The candidate should have eight years of demonstrated research experience, with publications in peer-reviewed journals, and current independent research funding.

Letters of inquiry with curriculum vitae and the names and addresses of four people familiar with the applicant's work should be sent to:

Willard E. Fee, Jr., M.D.

Edward C. and Amy H. Sewall Professor

Division of Otolaryngology/Head and Neck Surgery

Stanford University Medical Center

300 Pasteur, R-135 Edwards

Stanford, CA 94305-5328

Stanford University is committed to increasing representation of women and minority groups on its faculty and particularly encourages applications from such candidates.

FACULTY POSITION MOLECULAR PHARMACOLOGY

The Department of Pharmacology, University of Missouri-Columbia, invites applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, focusing on the application of molecular biology to analysis of significant problems in pharmacology. Research areas of interest include but are not limited to: structure, function and regulation of receptors, membrane transport proteins, and ion channels; molecular mechanisms of transmembrane signaling; and neurotransmitters and growth factors. Successful candidates are expected not only to have a strong record of research accomplishments but also to participate in the teaching of medical and graduate students. Please send curriculum vitae, a brief description of research plans, and the names of three references to: **Dr. Hyun Dju Kim, Professor and Chairman, Department of Pharmacology, University of Missouri-Columbia, School of Medicine, M517B Medical Sciences Building, Columbia, MO 65212.** *An Equal Opportunity/Affirmative Action Employer.*

NIH Has A New Address.

The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at <http://helix.nih.gov:8001/oe/>

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

All from the convenience of your keyboard.

Plus, the web site links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your *curriculum vitae*. Now, the best way to find out about world class opportunities at NIH is through the world wide web.



National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe/>

The NIH is an Equal Opportunity Employer

CHEMISTRY

RESEARCH ASSOCIATE

- The Environmental Science Program at the University of Massachusetts Boston seeks applicants for a Research Associate position in Organic Geochemistry. Candidates should have an interest in both applied and basic research concerning the fate, transport, and transformation of organic compounds in coastal ocean environments. Will be responsible for operation of the Gas Chromatography-Mass Spectrometry analytical facilities and occasional assistance in maintenance of other major analytical instruments. Development of a collaborative research program with other Program and Departmental faculty having an interest in environmental research.

Qualifications: Ph.D. post-doctoral experience preferred; or a M.S. with extensive experience. Individual will supplement the base salary via grant/contract funds. Application review will begin on **September 15, 1996**, and continue until the position is filled. Please send your resume, research experience and interests, and the names of at least three references to: **Chair, Organic Geochemist Search Committee, Environmental Science Program, University of Massachusetts Boston, 100 Morrissey Blvd., Boston, MA 02125-3393.** An Affirmative Action, Equal Opportunity, Title IX employer.

U Mass Boston

Good Science begins with good people!

At Pfizer we recognize that scientists are the driving force behind our success as a leading developer of novel drug therapies and life-enhancing health care products. Our state-of-the-art research facilities and continuing investments in R&D make it a place to support individuals who are working hard to make a difference. Continued growth has created opportunities for:

BS/MS SCIENTISTS

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We seek knowledgeable scientists with experience in synthetic organic chemistry and strong theoretical and laboratory background. These positions require a BS or MS in a relevant field, and effective oral and written communication skills.

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We're part of the cure.

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

POSITIONS OPEN

FACULTY POSITION DIRECTOR, PRIMATE RESEARCH LABORATORY

Center for Reproduction and University of
Pittsburgh School of Medicine

The Center for Research in Reproductive Physiology (CRRP) and the University of Pittsburgh School of Medicine are seeking a faculty member to direct the Primate Research Laboratory, which serves as a Core Resource for CRRP and other University investigators employing non-human primate models for their research. An appointment within the School of Medicine at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level will be considered. Applicants must have a Ph.D. or equivalent degree, and must utilize non-human primate models in the study of reproductive or developmental biology. The successful applicant will be expected to bring or develop an independent NICHD funded research program utilizing the macaque as an experimental model. Applicants should send their curriculum vitae, a statement of research interests, and the names of three references to: Dr. Tony M. Plant, Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, W1451 Biomedical Science Tower, Pittsburgh, PA 15261. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR ENVIRONMENTAL PHYSIOLOGY

A TENURE-TRACK position is available for an environmental physiologist studying physiological responses of animals to environmental changes. Preference will be given to those addressing evolutionary questions and including a field component in their research. Teaching responsibilities will include undergraduate cell/systems physiology at introductory and graduate levels and a graduate course in an area of specialization. Qualifications include a Ph.D. in a relevant biological science, with demonstrable training and publications in environmental physiology; postdoctoral experience is preferred. The successful candidate will be expected to maintain a funded research program. Screening of candidates will begin on October 14, 1996. Applicants should indicate whether they wish to be considered at the assistant or associate level. Send letter of application, curriculum vitae, and three letters of recommendation to: Dr. David Moffett, Chair, Environmental Physiologist Search Committee, Department of Zoology, Washington State University, Box 644236, Pullman, WA 99164-4236. FAX: 509-335-3184.

Washington State University is an Equal Opportunity/Affirmative Action Employer. Members of protected groups are encouraged to apply.

Tenure-track position at the ASSISTANT PROFESSOR level, available July 1, 1997, as part of a Departmental growth program. Applicants should have a Ph.D. and/or M.D., relevant postdoctoral experience, a strong research background, and be using state-of-the-art methods to define molecular mechanisms that regulate cell function. Outstanding individuals who will expand and complement current Departmental teaching and research programs in the areas of cardiovascular pharmacology, receptor pharmacology, neuropharmacology, signal transduction, and regulation of cell growth will be considered. To ensure full consideration, applications must be received by September 30, 1996. Applicants should send a curriculum vitae, along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to: Faculty Search Committee, Department of Pharmacology, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706-1532. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

California Institute of Technology invites applications for a tenure-track position as ASSISTANT PROFESSOR in the field of inorganic chemistry. The initial appointment will be for four years. Outstanding individuals with a Ph.D. and a strong commitment to research and teaching excellence are encouraged to apply. Submit curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: Professor J. K. Barton, Inorganic Chemistry Search Committee, M/C 127-72, California Institute of Technology, Pasadena, CA 91125. Applications should be received by November 15, 1996. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR DIRECTOR OF THE LABORATORIES

The Section of General Surgery at the University of Chicago invites applications for a faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level to serve as Director of the Laboratories. We are seeking an independent investigator able to conduct and direct high quality basic science research in molecular oncology of gastrointestinal and pancreatic adenocarcinoma.

Qualifications include a Ph.D. degree and completion of a relevant postdoctoral fellowship. The candidate should have evidence of productivity in research with publications in peer-reviewed journals and current independent research funding. Responsibilities include independent basic science research; development of translational research projects with current faculty to complement the clinical programs of the Section of General Surgery; and the overall direction of the research programs of the Section. Please send inquiries and curriculum vitae to: Fabrizio Michelassi, M.D., The University of Chicago, Section of General Surgery, 5841 South Maryland Avenue/MC 5094, Chicago, IL 60637. The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers and applications from women and representatives of minority groups are encouraged.

UNIVERSITY OF SOUTH CAROLINA Molecular, Cell, and Developmental Biology

The Department of Biological Sciences at the University of South Carolina invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. The Department is interested in all areas of molecular, cell, and developmental biology, although individuals with expertise in signal transduction are particularly encouraged to apply. The University maintains a wide range of shared core facilities that are readily available to all faculty. These include, among others, facilities for oligonucleotide synthesis, monoclonal antibody production, transgenic mice, automated DNA sequencing, light and electron microscopy, and laser scanning confocal microscopy. The Search Committee will begin reviewing applications on October 15, 1996. Interested individuals should send updated curriculum vitae, a description of research interests, and three letters of recommendation to: Dr. Vicki Bowman Vance, Search Committee Chair, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208. An Equal Opportunity/Affirmative Action Employer.

The Department of Biochemistry at the University of Texas Health Science Center at San Antonio invites applications for two twelve-month, state-funded, tenure-track faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Candidates with research expertise in any area of contemporary biochemistry will be considered. Special consideration will be given to candidates with research interests in the following areas: 1) Biochemistry/Cell Biology—complex lipids, intracellular targeting, cellular adhesion mechanisms, glycoproteins; 2) Macromolecular Structure—high resolution structure (x-ray crystallography, NMR) and the dynamics of macromolecules. Interested applicants should send a curriculum vitae, a brief research prospectus, and the names of three references to: Faculty Search Committee, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7760. For information about the Department of Biochemistry, see <http://bio02.uthscsa.edu/biochem.html>. The deadline for applications is October 1, 1996. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR of Nutrition: 12-month research/teaching appointment (75/25); tenure-track. Earned doctorate in nutrition or closely related discipline with research focus and advanced training in nutrition required. Registered Dietitian, an active member of the American Dietetic Association. Experience in applied medical/clinical dietetics. Postdoctoral research experience essential. Will participate in undergraduate and graduate teaching and advising. Submit cover letter, curriculum vitae, transcripts, and the names, addresses and telephone numbers of three references to: Edward T. Sheehan, Ph.D., R.D., Chair, Search Committee, Department of Nutritional Sciences, Shantz Building (38), Room 309, The University of Arizona, Tucson, AZ 85721. Telephone: 520-621-1449.

Packet review will begin October 1, 1996.

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

POSITIONS OPEN

ASSISTANT or ASSOCIATE PROFESSOR of Anatomy Positions: Three full-time, tenure-track positions in the Department of Anatomy, University of Iowa, are available. Teaching responsibilities will be in gross anatomy, histology, or neurobiology. Applicants at the Assistant Professor level should have a Ph.D., M.D., or equivalent, postdoctoral experience, an active research program with a high potential for attracting external support, and teaching proficiency in the anatomical sciences. Applicants at the Associate Professor level should have an ongoing externally funded research program, established record of scholarship supported by substantial publication, teaching experience in the anatomical sciences, and a history of successfully directing doctoral students. One position is to be filled by a molecular neuroscientist. Two positions are to be filled by cell/molecular biologists from other fields. Although individuals in a variety of research areas will be considered, preference will be given to scientists engaged in signal transduction, growth factors, and cell cycling topics. Individuals with teaching experience in gross anatomy will also be given preference. Send curriculum vitae, bibliography, a brief statement of research and teaching experience, plus names of three references to: Dr. Mary J. C. Hendrix, Head, Department of Anatomy, College of Medicine, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR NEUROPHARMACOLOGY/NEUROSCIENCE The Medical College of Georgia

Applications are invited for a tenure-track position as ASSISTANT or ASSOCIATE PROFESSOR of Pharmacology and Toxicology at the Medical College of Georgia. The successful candidate must hold a Ph.D. or M.D. degree and will be expected to establish an independent extramurally funded research program utilizing molecular and/or cellular approaches. We desire applicants with outstanding research accomplishments in the areas of neuropharmacology, neural signal transduction, or neurophysiology who can collaborate with investigators from several disciplines as part of a growing neuroscience community. Excellent core resource facilities exist including those for DNA sequencing, analytical chemistry, transgenic animals, and aged primates. Teaching responsibilities will be in medical and graduate courses. Competitive salary, laboratory space, and start-up funds are available. Please send a curriculum vitae, a letter describing research plans, and the names of three references to: Search Committee, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300. Application deadline is October 15, 1996. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT to MARC Director. Qualifications: M.S. in Biochemistry or equivalent, computer skills required, two years of experience. Experience with the AIX, IBM Risk 6000 system, and molecular modeling is desirable. Salary commensurate with experience. Send résumé with two letters of recommendation to: Dr. E. Helmy, MARC Program Director, Delaware State University, Dover, DE 19901. An Equal Opportunity Employer.

CLINICAL PATHOLOGIST

The Department of Laboratory Medicine at Yale University School of Medicine is seeking applicants for a faculty position at the rank of ASSISTANT PROFESSOR to join the Department Stem Cell Biology Program. The successful candidate will be expected to establish an independent basic research program in stem cell biology and must be qualified to serve as Assistant Director of the Blood Bank and Co-Director of the Stem Cell Processing Laboratory. Must be Board-certified in Clinical Pathology with expertise in transfusion medicine. Preference will be given to candidates with research experience in isolation and manipulation of hematopoietic stem cells and molecular biology. Candidate should send a curriculum vitae, a brief description of research interests, and three letters of recommendation by October 1, 1996, to: Edward Snyder, M.D., Department of Laboratory Medicine, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208035, New Haven, CT 06520-8035. Yale University is an Affirmative Action/Equal Opportunity Employer. Women and minority group members are encouraged to apply.



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION

Postdoctoral position available to study damaged CNA-induced (and cell cycle-dependent) regulation of eukaryotic DNA replication. A recent Ph.D. degree with experience in molecular biology and/or biochemistry (nucleic acid enzymology in particular) is preferred. Please send a curriculum vitae, research experience, and names of three references to: **Dr. Suk-Hee Lee, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. Fax: 901-523-2622.** SJCRH is an Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

Chair, Department of Biochemistry and Molecular Biology

The University of Texas-Houston Medical School in Houston, Texas is seeking a Chairperson for the Department of Biochemistry and Molecular Biology. The candidate must have a Ph.D., M.D., or comparable doctoral degree. He/she should be an internationally recognized research scientist who has an established commitment to biomedical education. The individual should have the administrative, communication and interpersonal skills with which to lead this academic department where education of medical and graduate students and the conduct of dynamic research programs are primary activities. The department currently has well-established research programs and an active graduate training program centering on structure-function relationships of biomolecules, eukaryotic and prokaryotic molecular biology, membrane structure and function, and signal transduction mechanisms.

Resources will be provided for continued departmental growth and development. Excellent opportunities exist for interactions with various components of The University of Texas-Houston Health Science Center as well as with the other institutions in the Texas Medical Center and southeast Texas.

Interested applicants should send a copy of their curriculum vitae to **Jeanie McMillin, Ph.D., Chair, Biochemistry and Molecular Biology Search Committee, 6431 Fannin, c/o Department of Pathology and Laboratory Medicine, MSB 2.114, Houston, TX 77030.** Although nominations and applications will be accepted until the position is filled, those submitted by November 1, 1996, are best assured of receiving full consideration. *The University of Texas is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



RESEARCH SCIENTISTS

Process Development Scientist

The Optimization and Process Development organization is searching for scientists to work as members of interdisciplinary project teams to develop commercial processes for new crop protection chemicals. This will include laboratory investigations of chemical processes on a fundamental level, optimization and scale-up of those processes to a semi-commercial and full commercial production. Technical support of existing products to improve efficiency and ensure quality is another important aspect of the job.

Minimum requirements include a Ph.D. in organic chemistry with 5-10 years of experience in process development. A strong knowledge of heterocyclic synthesis preferred. Familiarity with a wide variety of analytical techniques such as NMR, IR, MS, UV, HPLC, and GC is required. Experience in pilot-scale operation and direct manufacturing support are highly desirable as is some familiarity with regulatory issues. Excellent communication skills and an ability to work successfully in team environments within a diverse global technical organization are essential.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources
Agricultural Products SCI-1
Experimental Station
Building 402, Room 3206
Wilmington, DE 19880**

Formulation Scientist

Agricultural Products is seeking exceptional formulation scientists to conduct laboratory research. The successful candidate will design and optimize finished product compositions for new crop protection chemicals to meet customer, regulatory and commercial manufacturing requirements. Work will extend from laboratory development and optimization to scale-up of these products and, ultimately, to support of commercial manufacture. Technical support for existing products to improve productivity and ensure quality is another important aspect of the job.

Minimum requirements include a Ph.D. in chemistry or engineering and 5-10 years of experience in formulation development. Experience in solid formulations, especially extrusion, and sophisticated liquid formulations is preferred as is experience in the direct support of manufacturing. Excellent communication skills and the ability to work effectively in team environments within a diverse global technical organization are essential.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources
Agricultural Products SCI-2
Experimental Station
Building 402, Room 3206
Wilmington, DE 19880**

Research Chemist

The Chemical Discovery Section is searching for a chemist with a strong background in synthetic organic chemistry to join an interdisciplinary team composed of chemists, biologists and biochemists whose objective is to discover new products for crop protection.

Minimum requirements for the position include a Ph.D. in organic chemistry with strong synthetic skills. A background in heterocyclic chemistry and/or phosphorus chemistry is desirable. Candidates should also have very good interpersonal skills, excellent skill in written and oral communication, and strong computer skills.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources
Agricultural Products SCI-3
P.O. Box 30
Newark, DE 19714**

Organic Chemist

The Chemical Discovery and Optimization Section is searching for organic chemists to conduct multifaceted synthetic organic reactions under the guidance of a Ph.D. chemist. Responsibilities include set up of reaction apparatus, combination of reagents and solvents, monitoring reactions, work-up, separation, purification (recrystallization, distillation, chromatography) and analysis (NMR, IR, melting point). Other tasks include overseeing the maintenance/organization of the lab, notebook record keeping and computer database searching.

Minimum requirements for the position include a B.S. in chemistry or equivalent work experience in an organic laboratory. Knowledge of basic organic reactions, understanding of chemical nomenclature, ability to perform fundamental chemical calculations, familiarity with fundamental chemical principles, and familiarity with analytical tools of the trade, especially NMR spectroscopy.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources
Agricultural Products SCI-4
P.O. Box 30
Newark, DE 19714**

An Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSOR, Biochemistry. California State University, Long Beach invites applications for a tenure-track position beginning August 1997. Applicants must have a Ph.D. in biochemistry or a closely-related area with a strong background in chemistry and a demonstrated potential for effective teaching and for developing an independent, externally-funded research program involving undergraduate and/or master's students. Post-doctoral experience preferred. To apply, submit a letter of application, a résumé, and a statement of research and teaching interests, and have official transcripts from undergraduate and graduate institutions and three letters of recommendation sent by November 3, 1996, to: **Dr. Nail Senozan, Chair, ATTN: Biochemistry Search, Department of Chemistry and Biochemistry, California State University, Long Beach, 1250 Bellflower Boulevard, Long Beach, CA 90840-3903. FAX: 310-985-8557.** California State University, Long Beach is an Equal Opportunity/Affirmative Action/Title IX Employer.

IOWA STATE UNIVERSITY BIOTECHNOLOGY INDUSTRIAL LIAISON

A position is available for a liaison between Iowa State University and the biotechnology industry. The individual will develop university/industry research agreements; assist industry in accessing the university research, business, and educational services; and collaborate with economic development organizations to foster business development in Iowa. Minimum requirements: M.S. or Ph.D. in a molecular biology-related discipline. Three years of experience in industrial research and business development in agricultural biotechnology. Excellent written and verbal communication skills in English, and positive interpersonal skills. Send résumé and names of three references to: **Walter Fehr, Office of Biotechnology, 1210 Molecular Biology Building, Iowa State University, Ames, IA 50011-3260. Telephone: 515-294-6865; FAX: 515-294-4629; Email: wfahr@iastate.edu.**

Iowa State is an Equal Opportunity/Affirmative Action Employer.

PRINCIPAL RESEARCH SCIENTIST—Watershed Management. Develop multidisciplinary research programs (Great Lakes and coastal habitats). Preference to those able to integrate questions at ecosystem level and work with existing Center strengths in aquatic ecology, fisheries, GIS, toxicology, earth sciences, hydrology, planning. Ph.D. watershed management, applied limnology, or related field required. Must demonstrate ability to obtain external funding, scientific achievement and aptitude, potential for conducting research in the Great Lakes including working with fisheries management agencies, and teaching and advising ability at graduate level. Prefer discipline to complement current programs and facilities and administrative skills. Initial three-year appointment/potential for renewal. Curriculum vitae, names of three references to: **C. Darstein, Great Lakes Center-P1, SUNY College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222. Closing date: September 15, 1996.** Affirmative Action/Equal Opportunity Employer.

The National Institute of Neurological Disorders and Stroke (NINDS), Stroke Branch (SB) has an immediate opening for a two-year **FELLOWSHIP** to study the role of cytokines and leukocytes in the initiation and progression of stroke, using both rodent models and samples from ongoing human clinical trials. Advances in our labs are aimed at directing novel pilot trials in stroke prevention and acute stroke management. *Candidates must be U.S. citizens or permanent residents and have a Ph.D. in a relevant area, such as neuroscience, immunology, and molecular biology. Experience in immunohistochemical staining, in situ hybridization, and mRNA analysis is an asset.* Applicants should contact: **Thomas J. DeGraba, M.D., NINDS/SB, 36 Convent Drive, MSC 4128, Building 36/Room 4A03, Bethesda, MD 20892-4128. Telephone: 301-295-0846; FAX: 301-295-0863.** NIH is an Equal Opportunity Employer.

Novalon Pharmaceutical Corporation has open positions for **SENIOR SCIENTISTS** with three to five years of postdoctoral experience in molecular biology and biochemistry. Expertise in cloning, library screening, and computer assisted structural analysis required to work in our Combinatorial Recognition program directed toward drug and drug target discovery. Please send curriculum vitae and the names of at least three references to: **Human Resources, Novalon Pharmaceutical Corporation, P.O. Box 569, Chapel Hill, NC 27514-0569.**

POSITIONS OPEN

SPECIALIST IN SATELLITE OCEAN COLOR REMOTE SENSING

The Marine Research Division of the Scripps Institution of Oceanography, University of California, San Diego, seeks to appoint a Specialist in Satellite Remote Sensing to join a group involved with algorithm development and applications for ocean color satellites, including SeaWiFS, OCTS, MODIS, GLI and MERIS. The successful candidate should possess an advanced degree in science (Ph.D. preferred) and have significant experience in the analysis and publication of results from both *in situ* studies and/or satellite applications. Ocean research experience including phytoplankton ecology, ocean optics or applications using CZCS or AVHRR data is highly desirable. Strong skills with data analysis on UNIX and IBM PC computers are essential. Programming experience in the context of scientific or remote sensing data acquisition and analysis is desirable. The Specialist appointment is within the academic series of the University of California and requires scholarly contribution for advancement. This appointment is targeted at the **ASSOCIATE LEVEL** with an annual salary commensurate with experience, and based on UC salary scales. Send curriculum vitae, a statement of past activities, and names of three references by September 15, 1996, to: **Director, MRD, Mail Code 0236S, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0236.** The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AT BOSTON BIOMEDICAL RESEARCH INSTITUTE

POSTDOCTORAL POSITION is available in an NIH-supported research program to explore the new role of molecular chaperones in phosphorylation and degradation of cyclins in yeast (MCB, 16: 3679-3684, 1996). Please send curriculum vitae to: **Dr. Michael Sherman, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. Email: sherman@bbri.harvard.edu.**

POSTDOCTORAL POSITION available for a motivated individual to study gene expression in human neutrophils. Applicants should have a Ph.D., M.D., or equivalent and experience in molecular biology. This NIH grant-funded position is available immediately. Send curriculum vitae and three letters of reference to: **Dr. H. Hank Simms, M.D., Department of Surgery, Brown University, Rhode Island Hospital, APC-103, 593 Eddy Street, Providence, RI 02903.** Affirmative Action/Equal Opportunity Employer.

The Neurocytobiology Section, Stroke Branch, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH) is offering a two-year **FELLOWSHIP** to conduct studies on mediators, receptors, and receptor-mediated signal transduction of cerebrovascular cellular elements in ischemic injury. Candidates must have a Ph.D. or an M.D. and have at least two years of experience in biochemistry and molecular biology. Please submit curriculum vitae to: **Maria Spatz, M.D., Head, Section of Neurocytobiology, Stroke Branch, NINDS, NIH, 36 Convent Drive, MSC 4128, Building 36/Room 4A03, Bethesda, MD 20892-4128. Telephone: 301-496-8112; FAX: 301-402-2769.**

STAFF ASSOCIATE POSITION

A **STAFF ASSOCIATE** position for a genetic counselor is available immediately in the Department of Neurology, Division of Movement Disorders, at Columbia University. The Staff Associate will act as Study Coordinator for funded clinical genetic projects. Primary responsibilities include enrolling families into the studies and obtaining family histories, interviewing patients and family members, organizing data for grants and manuscripts, collecting blood from subjects for DNA analysis, and subsequent genetic counseling (travel required). The applicant should have an M.S. degree in genetic counseling and one to two years of related experience. Send curriculum vitae and names of three references to: **Dr. Susan Bressman, M.D., Department of Neurology, 710 West 168th Street, New York, NY 10032.** Columbia University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

Positions available immediately to work on immunology and molecular biology of reproduction. Ph.D. required with experience/interest in reproductive biology. Send résumé to: **Dr. Rajesh K. Naz, Professor and Director, Division of Research, Department of Ob/Gyn, Medical College of Ohio, P.O. Box 10008, Toledo, OH 43699.**

POSITIONS OPEN

JILA

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

1) **RESEARCH ASSOCIATESHIPS** for advanced research by recent Ph.D.s. Applications are accepted and considered anytime throughout the year.

2) **VISITING FELLOWSHIPS** for advanced research by senior scientists. Deadline for completed applications is November 1, 1996.

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

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

RESEARCH ASSOCIATE for university in central Ohio. The individual will be responsible for all surgical aspects of experimental cardiac models. This will involve extensive microsurgical procedures including, but not limited to, insertion of angiocatheters into minor branch points of the left anterior descending artery. The individual will be responsible for all aspects of surgical preparation including anesthesia. This will include the placement of sonomicrometer crystals and Doppler flow probes. The individual will also be responsible for preparing and monitoring failing heart models. This will include the induction of failure through mitral regurgitation or pacing. The individual will also be responsible for writing progress reports and will assist in the preparation of research articles or grant applications. Master's in physiology or anatomy and two years of experience in above-described duties or two years of experience in mammalian cardiac surgery and physiology and one year of experience in surgery and microsurgery, and cardiac magnetic resonance. Experience may have been gained concurrently. 40 hours per week, 8 a.m. to 5 p.m., Monday through Friday, \$25,356. Send two résumés and cover letters (no calls) to: **ES Sp Prgrms, Reference Number 1853, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

RESEARCH ASSISTANT/ASSOCIATE—The Oregon Institute of Marine Biology, University of Oregon, has a one-year opening for a phytoplankton molecular ecologist to study interactions between phytoplankton and bacteria. Requires experience in molecular probes and sequencing, and a background in phytoplankton systematics and microscopy. Submit cover letter, curriculum vitae, and names of three references by August 30 to: **Dr. Lynda Shapiro, OIMB, P.O. Box 5389, University of Oregon, Charleston, OR 97420.** The University of Oregon is an Affirmative Action/Equal Opportunity Employer committed to cultural diversity and compliance with ADA.

POSTDOCTORAL FELLOWSHIP PROGRAM Molecular Host Defense

Positions available immediately to study antimicrobial peptides (defensins, protegrins) of human and animal phagocytes and epithelia under the direction of **Profs. Robert Lehrer and Tomas Ganz.** Experience is required in one or more of the following: a) peptide chemistry/purification, b) microbial structure and pathogenesis, c) cell biology of phagocytes or epithelia. Please send curriculum vitae and the names of three references to: **Molecular Host Defense Laboratories, 37-055 CHS, UCLA School of Medicine, Los Angeles, CA 90095-1690. FAX: 310-206-8766.** Equal Opportunity Employer.

POSTDOCTORAL position available immediately to determine the structure of the cytb5-cytc complex by NMR. Experience with multidimensional NMR and protein purification is desirable. Send résumé and three letters of reference to: **Dr. Basus, Department of Pharmaceutical Chemistry, University of California, San Francisco, CA 94111 or Dr. Waskell, Department of Anesthesia, University of California, San Francisco, VA Medical Center, San Francisco, CA 94121.** Citizens only. Equal Opportunity Employer.



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As a subsidiary of the Fortune 100 Monsanto Company, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. And our professionals are playing a key role in their on-going development and support — and in our future.

Plant Molecular Biologist

This individual will join an exciting and successful Regulatory Science team within a world-class plant biotechnology organization that has recently marked a number of genetically engineered plant products. While working with a mini-team of molecular biologists responsible for a variety of genetically engineered crop plants, you will provide technical leadership in defining the molecular structure of DNA introduced into plants, particularly monocot plants transformed by particle gun bombardment.

We require a BA/BS or MS in Molecular Biology along with extensive experience — preferably characterizing DNA integrated into genetically engineered plants or genomic mapping using Southern blots and PCR. The ability to identify and integrate new, relevant technologies into the Regulatory Science molecular biology function is desired. Excellent communication skills, PC literacy, and proven leadership skills are essential.

Not only are we committed to advancing our company, we're also committed to advancing the skills of our professionals. And as just one of the many Monsanto Business Units, we can offer you exceptional growth potential. For consideration, please send your curriculum vitae with references and a brief letter of professional goals, in Microsoft Word 6.0, to: **Monsanto Company, Job # PMB, 700 Chesterfield Parkway North, Mail Zone GG4J, St. Louis, MO 63198. Fax: 314/537-6567. E-mail: rmmead@ccmail.monsanto.com.** To be considered, resumes must be received by September 6th, 1996. An Equal Opportunity Employer M/F/D/V.



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genzyme

Moving forward. With a new manufacturing facility, expanding global markets, and constant scientific innovation, Genzyme has become a major, diversified healthcare products company. **Making progress.** Our people are enthusiastic and focused, achieving success in the areas of therapeutics, diagnostic products and services, as well as pharmaceuticals and fine chemicals. **Looking ahead.** Many words can describe a goal, an achievement, or even an opportunity. But only one word can describe an opportunity like this. **Genzyme.**

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GROUP LEADER - IMMUNOLOGY

Manage a small group of Ph.D. and BS level scientists who are studying the immunobiologic effects of TGF- β and prolactin, and their interactions between each other and with other cytokines. Responsibilities of the group also include producing and characterizing monoclonal antibodies. Requires strong management skills and a Ph.D. with 6+ yrs' experience in cellular immunology. Molecular biology and hybridoma production experience also desirable. Previous management experience is essential. **Code PK-1**



RESEARCH SCIENTIST - PHARMACOKINETICS/TOXICOLOGY

Design, perform (or monitor), analyze and report pharmacokinetic and safety studies in support of IND, NDA, and MAA submissions. Ideal candidate holds a Ph.D. in Toxicology, Pharmacology (with an emphasis on pharmacokinetics), or related science and at least 2 yrs' postdoc experience, preferably in industry. Must have hands-on experience performing pharmacokinetic and acute and subacute safety studies. Experience working with recombinant proteins a plus. Strong organizational, interpersonal, communications, and computer skills required. **Code PK-2**

STAFF SCIENTIST II - GENE TRANSFER

Design and perform experiments aimed at increasing the understanding of cationic lipid-mediated gene transfer into lungs. Develop methods to overcome gene transfer barriers and facilitate gene delivery to specific target cells using relevant in vivo models. Requires a Ph.D. in a biological science with at least 2 yrs' postdoc experience. Experience in the development and use of cationic lipids or other non-viral vehicles desirable. **Code PK-3**

Qualified candidates should forward their resume to: Genzyme Corporation, Human Resources Dept., One Kendall Square, Cambridge, MA 02139 or fax directly to our scanner (without a fax cover sheet): (617) 374-7427.

Genzyme uses optical scanning technology for its resume tracking system. Please use a 12 point font with minimal use of bullets, italics, underlining and bolding.

Genzyme rewards success with an excellent compensation and benefits package, including 3 weeks' paid vacation, a 401(k) plan with a company match, extensive insurance benefits and an Employee Stock Purchase Plan. An equal opportunity employer committed to a culturally diverse workforce.

ADVANCING HEALTHCARE PRODUCTS AND SERVICES WORLDWIDE

DIRECTOR, LINUS PAULING INSTITUTE OREGON STATE UNIVERSITY

The Linus Pauling Institute of Science and Medicine, located in Palo Alto, California, will soon be dissolved and the Linus Pauling Institute (LPI) will be established in Corvallis, Oregon, at Oregon State University. The mission of the Linus Pauling Institute at Oregon State University is to develop a research program dedicated to elucidation of the roles of micronutrients, phytochemicals, and microconstituents of food in human health.

Oregon State University invites nominations and applications for the position of Director, Linus Pauling Institute. The Director will hold an endowed chair at Oregon State University. This is a 12-month, 1.0 FTE appointment at the rank of Professor with a 9-month tenure commitment in a department appropriate to the individual's background. Salary range will be commensurate with experience and qualifications. The Director is expected to maintain an active research program in a human health related area that complements the mission of the Linus Pauling Institute. The Director will provide leadership for the Institute and will work closely with development personnel to acquire funding for the Institute. A doctorate degree in a human health related area is required.

We are seeking an individual who has a highly recognized, established research program and a record of successful experience in obtaining funding for research in a human health related area. A record of successful interaction with groups and with other scientists is essential.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the individual. Applicants should submit a letter of interest and a resume along with names, addresses, and phone numbers of four references to:



Richard A. Scanlan, Dean of Research
Oregon State University
312 Kerr Administration Building
Corvallis, OR 97331-2140
email: harrisob@ccmail.orst.edu

References will not be contacted without prior approval of the applicant. Nominations are due September 10, 1996. For full consideration, apply by October 1, 1996; position shall remain open until filled. Position is available January 1, 1997. *OSU is an AA/EEO employer and has a policy of being responsive to dual-career needs.*

Research Scientist

Gliatech Inc., a rapidly growing healthcare company dedicated to the development of drugs to treat disorders of the nervous system, is seeking a motivated scientist to contribute to its ongoing exploratory research programs. The qualified candidate will have a Ph.D. in the biological sciences with at least two years of postdoctoral training. The position requires past research experience in protein biochemistry or enzymology, and demonstrated expertise with molecular biology methodologies, including the generation and characterization of stably transfected cell lines and the analysis of gene expression.

Along with an exciting and challenging work environment, Gliatech offers a competitive compensation and benefits package, including a 401(k) plan, health, dental and life insurances, and exceptional growth potential. For consideration, send a resume with the names of at least three references to:



GLIATECH

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POSITIONS OPEN

DEVELOPMENTAL BIOLOGY UNIVERSITY OF MICHIGAN

The Department of Biology at the University of Michigan solicits applications for a faculty position. Applications at all levels will be considered. We seek individuals who use molecular and genetic approaches to analyze animal development. The successful candidate must have a Ph.D. in biology, genetics, or related field, and **POSTDOCTORAL** experience. The selected candidate will join an expanding group of cellular and molecular biologists interested in the development of *C. elegans*, *Drosophila*, zebrafish, *Xenopus*, chick and *Arabidopsis*. In addition to establishing a successful research program, the candidate will be expected to participate in undergraduate and graduate teaching of the department. To apply, send a curriculum vitae, copies of reprints, brief summaries of present research and future research plans, and arrange to have three letters of reference sent directly by October 1, 1996, to:

Chair, Developmental Biology
Search Committee
Department of Biology
University of Michigan
Natural Science Building
Ann Arbor, MI 48109-1048

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

The Academy of Natural Sciences' Patrick Center for Environmental Research seeks **POSTDOCTORAL/RESEARCH ASSISTANT** in Environmental Organic Geochemistry to conduct and actively seek funding for applied studies in environmental geochemistry within the context of the center's mission. The Patrick Center conducts a mix of applied research and contract studies on aquatic ecosystems (freshwater and marine). Candidate will manage and conduct all organic analysis (e.g., hydrocarbons including PAHs, pesticides, ortho and non-ortho congener PCBs, non-traditional organics, etc.), from extraction through analysis, data interpretation, and methods development for water, sediment, and tissue. Minimum qualifications: recent Ph.D. (or M.S. with excellent experience) in analytical environmental chemistry, marine organizational geochemistry, environmental engineering, or related discipline. Experience with "clean" sample techniques, GC/MS/FID/ECD, computers, and environmental/geochemical field and transport required. Review of applications begin September 1, 1996. Send curriculum vitae, one-page description of research experience and interests, and three references to: **Ms. Helen Kelleher, Announcement Number 540, The Academy of Natural Sciences, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103.** *The Academy of Natural Sciences is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN MAMMALIAN CELL CYCLE CONTROL

A **POSTDOCTORAL POSITION** is available immediately to carry out basic research on human cell cycle regulation and the cellular response to DNA damage in a laboratory at the Texas Children's Cancer Center at Baylor College of Medicine and Texas Children's Hospital. Applicants should have experience in expression of heterologous genes in mammalian cells and biochemical characterization of protein modifications. Please submit a curriculum vitae, description of research experience, and three letters of reference to: **Sharon Plon, M.D., Ph.D., Texas Children's Cancer Center and Hematology Service, 6621 Fannin Street, MC 3-3320, Houston, TX 77030. Email: splon@bcm.tmc.edu; FAX: 713-770-4202.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSTDOCTORAL POSITION GENE REGULATION

Position available to study the role of the transcriptional co-activator CBP in gene regulation and development (see *Nature*, 380:642, 1996; *Nature*, 374:85, 1995). Experience in biochemistry, molecular biology, or genetics desirable. Send curriculum vitae and names of three references to: **Richard H. Goodman, M.D., Ph.D., Vollum Institute, L-474, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**

*Oregon Health Sciences University is an Affirmative Action/
Equal Opportunity Employer.*

POSITIONS OPEN



POSTDOCTORAL POSITIONS Nucleic Acids NMR

Available immediately, as member of RNA research team, structure/design, protein interaction. Applicants should have macromolecular NMR experience. Our equipment includes: 500 MHz (three-channel, three-axis gradients) NMR, workstations, software for processing data and restrained molecular dynamics, and molecular modeling. Competitive salary, commensurate with experience. Reply with detailed résumé, date available, experience/technical ability in NMR, and three letters of reference sent to: **Dr. Paul F. Agris, Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695-7622 U.S.A. Email: Agris@bchserver.bch.ncsu.edu.**

A&PC is a rapidly expanding biotechnology company specializing in the development of biotherapeutic agents for treatment of cancer, AIDS, autoimmune diseases, and complications of organ transplants.

We are currently seeking 10 qualified, highly motivated individuals to serve as **POSTDOCTORAL ASSOCIATES** or **STAFF SCIENTISTS** (require a minimum of three years of postdoctoral experience) to develop improved Bone Marrow Transplant strategies for malignancies. Individuals with M.D., Ph.D., or equivalent degree, and experience in mouse immunology, transplant biology, transplant immunology, and murine BMT models are encouraged to apply. Send curriculum vitae, references, and two to three letters of recommendation to:

A&PC
Attn: Human Resources
P.O. Box 130517
St. Paul, MN 55113

POSTDOCTORAL FELLOW/SIGNAL TRANSDUCTION

Immediate opening for an NIH-funded position to study signal transduction mechanisms within the cardiovascular system. Research focus includes regulation of tyrosine kinase and MAP kinase signaling pathways by free radicals and hypertrophic agents. Position requires a Ph.D. in cell and molecular physiology, cell biology, or a related discipline. Must be eligible for NIH funding. Send curriculum vitae, statement of research interests, and the names of three references to: **Pamela Lucchesi, Ph.D., Department of Physiology, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. FAX: 708-327-2849; Email: plucche@luc.edu.** *Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP UNIVERSITY OF MICHIGAN MEDICAL CENTER

Position available. The work focus will be on the cell biological and molecular aspects of glomerular epithelial cell (podocyte) function and the potential role of this cell in glomerular diseases leading to the nephrotic syndrome and focal segmental glomerulosclerosis. Molecular and cellular biologic experience required. Ph.D./M.D. acceptable. Send curriculum vitae and names of three references to: **Roger Wiggins, Nephrology Division, 3914 Taubman Center, University of Michigan, Ann Arbor, MI 48109-0364.** *University of Michigan is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately in a multidisciplinary laboratory to study the pathophysiology of traumatic brain injury during hydrocephalus and following surgical treatment. Experience preferred in immunohistochemistry, *in situ* hybridization, autoradiography, and molecular biology. Send curriculum vitae and names of three references to: **J. P. McAllister, Department of Neurosurgery, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-444-9170; Email: mcallip@cesmtp.ccf.org.** *Affirmative Action/Equal Employment Opportunity Employer.*

Two **POSTDOCTORAL** positions available, one specializing in molecular biology and the other in protein chemistry. These positions are to work on the exciting new findings relative to protein-protein interactions in the field of coagulation. Inquiries to: **Dr. Darrel W. Stafford, Department of Biology, University of North Carolina-Chapel Hill, Chapel Hill, NC 27599-3280.**

POSITIONS OPEN

THREE POSTDOCTORAL POSITIONS

The following positions are available immediately: a) Investigations of the catalytic mechanism of procaryotic type I DNA topoisomerases. Experience with DNA topoisomerases, protein purification, and *in vitro* mutagenesis techniques is highly desirable. b) Investigations of the role of butyrate in fatty acid and polyketide biosynthesis in *Streptomyces* and analysis and manipulation of type I polyketide synthases. A molecular biology background with *Streptomyces* DNA is highly desired for these positions. Applicants should send a curriculum vitae and reference letters to: a) **Dr. R. J. DiGate** or: b) **Dr. K. A. Reynolds, Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, 20 N. Pine Street, Baltimore, MD 21201.**

POSTDOCTORAL POSITION M. D. Anderson Cancer Center

Anticancer Drug Delivery/Tumor Targeting

Available immediately for NCI-funded projects to investigate the tumor penetration and determinants of intra-tumor distribution of anticancer agents with different physicochemical properties. A Ph.D. or M.D. degree and background in experimental cancer therapy, tumor biology, and physiology required. Experience in anticancer drug delivery desirable. Send curriculum vitae and statement of research experience and interests to: **Roman Perez-Soler, M.D., Section of Experimental Therapy, Department of Thoracic/Head and Neck Medical Oncology, Box 80, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL

Hematopoietic Stem Cell Gene Regulation and Therapy

Two **POSTDOCTORAL** or **RESEARCH ASSOCIATE** positions available immediately for Ph.D. to investigate stem cell gene regulation and the use of specific promoters in gene therapy applications using adeno associated virus (AAV) vectors. Extensive experience in transcription factor research, stem cell biology, and/or AAV required. FAX or mail curriculum vitae and three letters of reference to: **Dr. Daniel Tenen, Harvard Institutes of Medicine, Room 954, 77 Avenue Louis Pasteur, Boston, MA 02115. FAX: 617-667-3299.**

POSTDOCTORAL ASSOCIATE: Position available to study the cell biology of HIV infection in T-cell lines, peripheral blood T-cells, and lymph node tissue, and to work on related projects including the role of syncytium formation in the pathogenesis of AIDS. Requires Ph.D. in cell biology or related field. Experience in tissue culture techniques and different aspects of cell biology and microscopy are desirable. Send curriculum vitae and names of three references to: **Dr. David R. Soll, Department of Biological Sciences, 138 Biology Building, University of Iowa, Iowa City, IA 52242-1324.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION to study activation of phospholipases A₂ and D and their interrelationship in human neutrophils. Ph.D. with experience in cellular, molecular, or lipid biochemistry required. Experience with MAP kinase, Raf, or Ras desirable. Send curriculum vitae and references to: **Dr. Sue A. Bauldry, Department of Medicine, Pulmonary and Critical Care, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study regulation of ribosome biogenesis in *S. cerevisiae*. Experience with the molecular biology of yeast is essential. Please send curriculum vitae and names of three references to: **Dr. Jonathan R. Warner, Department of Cell Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION to study regulation of ion transporters and channels by PIP₂. A strong background in molecular biology or membrane biochemistry is required. Submit curriculum vitae and three references to: **Dr. Donald W. Hilgemann, University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75235-9040. FAX: 214-648-8685.** *An Affirmative Action/Equal Opportunity Employer.*

CUTTING EDGE
SCIENCE

Genentech is a pace-setting biotechnology company that discovers, manufactures and markets human pharmaceuticals for significant unmet medical needs. Our product pipeline is the richest in the industry and we are the only biotech company with five marketed products. To continue our record of success, we are seeking the following professionals for our growing organization.

Scientist/Molecular Virologist

You will be responsible for characterizing retroviruses and other viruses, nucleotide analysis of proteins of interest, contributing to regulatory submissions and supervising a lab responsible for the molecular detection of viral and other infectious agents. To qualify, you must be a bench Scientist current in molecular virology literature and technology and possess a Ph.D. and 2+ years of post-doc experience utilizing molecular virological techniques such as nucleotide sequencing, PCR and nucleic acid synthesis. Additionally, you'll need the proven ability to effectively supervise lab personnel. Job Code: MCMD2

Scientist, Cell Banking & Testing

You will work in a collaborative environment with a group responsible for cell banking/cryopreservation and cell characterization. Your responsibilities will include freezing/thawing optimization for our current banks; developing high density growth conditions; developing cell concentration, large bank and large volume freeze down methods; and cryoprotectants evaluation. You will also perform cell age characterization for regulatory submissions, train cell banking and manufacturing personnel, and strive to improve our current protocols. You must possess a Ph.D. with at least 2 years' postdoctoral industrial experience and broad based experience in cell culture and molecular biology as well as familiarity with cell genetics. Experience with GMP and regulatory filings is a plus. Job Code: MSMD

Scientist, Pharmacokinetics and Metabolism

You will head a lab group that focuses on isolation and analysis of active compounds and their metabolites from complex biological matrices (typically plasma) and be responsible for planning and executing IND-enabling ADME studies of molecules in development (both proteins and small molecules). To qualify, you must have a Ph.D. in Biochemistry, Pharmacology or related discipline; 2+ years of post-doc experience; strong communication skills; the ability to collaborate successfully within interdisciplinary project teams; and a strong background in HPLC methods development and protein/glycoprotein analytical work. Mass spectrometry expertise and experience in small molecule metabolism work are also desirable. Job Code: MCMS

Join us and enjoy our exciting success and progressive benefit package that includes free health club membership, 3 weeks paid vacation, 6 weeks sabbatical after 6 years, fully paid medical/dental/vision coverage, and Company stock purchase opportunities for full time employees. For consideration, send your resume indicating appropriate Job Code to Genentech, Inc., Human Resources Dept., 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. If possible, please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Find out more about Genentech at <http://www.gene.com/>. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

Genentech, Inc.

CORNING Bio

Leadership in Outsourced cGMP Manufacturing of Recombinant Proteins and Peptides

Corning Bio is a full service cGMP manufacturing organization that provides pharmaceutical and biotechnology companies with a world-class outsourcing alternative for production of recombinant proteins and peptides from phase I through commercial production.

We are currently recruiting for the following key positions at our new facility in Research Triangle Park, North Carolina:

Director, Analytical Protein Chemistry

In this key position, you will establish an analytical protein chemistry capability at Corning Bio with responsibility for product characterization of proteins produced in Corning Bio's development and cGMP manufacturing facilities. You should have experience discussing protein characterization with the FDA in regard to the filing of IND's and PLA's as well as in developing an analytical package for a "well characterized protein" as defined by the FDA. Your analytical experience should include mass spectroscopy, protein sequencing, peptide mapping, glycosylation analysis and other biochemical and biophysical protein analytical tools. Experience in transferring assays to a quality control group is also desired. A Ph.D. (or equivalent experience) in analytical protein chemistry along with eight plus years relevant experience is required. Leadership capability along with the ability to interact with manufacturing and quality groups is also required. (Job Code: SC-201)

Research Associate, Purification Development

In this position, you will be responsible for the development of processes for the manufacturing of biopharmaceuticals and the transfer of these processes to Corning Bio's cGMP manufacturing facility. M.S. (or equivalent experience) in biochemistry or protein chemistry is required. Two plus years of experience in protein purification and protein chemistry is also required along with knowledge in the areas of chromatographic methods, centrifugation and ultrafiltration techniques. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-202)

Research Associate, Cell Culture and Fermentation Process Development

In this position, you will be responsible for the development of cell culture and fermentation processes for the manufacturing of biopharmaceuticals. You will also be involved with the transfer of these processes to Corning Bio's cGMP manufacturing facility. Relevant cell culture and/or fermentation experience along with knowledge in sterile technique is required. Experience in computer monitoring and control of bioreactors is a plus. You should have an M.S. (or equivalent experience) in cell biology or microbiology. (Job Code: SC-203)

Senior Process Development Engineer

In this key position, you will be responsible for engineering projects in support of process development and cGMP manufacturing. You should be knowledgeable in all aspects of bioprocessing unit operations including ultrafiltration systems, centrifugation, chromatography and fermentation/cell culture engineering. Experience in process control system hardware and software design is also required. You will develop unit operations at development scale and design and transfer them to operate at plant scale. M.S. or Ph.D. (or equivalent experience) in chemical or biochemical engineering is required. (Job Code: SC-204)

Manager, Quality Control, Protein Analytical Chemistry

In this key position you will be responsible for establishing an analytical chemistry capability within a quality control group supporting the manufacturing of biopharmaceuticals in Corning Bio's cGMP manufacturing plant. You should be knowledgeable in all aspects of operating a laboratory under GLP's, including assay validation and statistical controls. You will be involved in the transfer into the quality control group and the validation of assays from process development, clients and the scientific literature. These assays will be used for in-process testing, lot release and stability testing. Additionally you will be responsible for establishing raw material testing protocols for the release of raw materials to manufacturing. M.S. or Ph.D. (or equivalent experience) in analytical protein chemistry is required. (Job Code: SC-205)

Please send resume with job code to: **Corning Bio, Human Resources, P.O. Box 13865, Research Triangle Park, NC 27709-3865, Fax: (919) 468-9070. PRINCIPALS ONLY.**
Corning Bio is an equal opportunity employer.

Chugai Biopharmaceuticals, Inc. (CBI) is seeking individuals to provide guidance and expertise to support our Drug Discovery efforts. Selected individuals will supervise and mentor direct reports and provide bench leadership in focused areas utilizing state-of-the-art biotechnological methods to discover and commercialize new drug entities.

ANALYTICAL CHEMIST

Requires Ph.D. in Analytical Chemistry, Chemistry or related discipline and 3+ years' industrial experience, with pharmaceutical industry experience strongly preferred. Must be competent in all aspects of modern analytical instrumentation including HPLC, CE, MS, GS-MS, UV, FTIR, NMR, etc. Requires supervisory experience and demonstrated experience in cross-functional support roles. Must be detail oriented and possess excellent written and verbal communication skills. GMP experience, including document preparation and compliance preferred.

STAFF SCIENTISTS/SR. RESEARCH SCIENTISTS Discovery Chemistry

Requires Ph.D. in Organic Chemistry, Medicinal Chemistry or related discipline and 6+ years' post-doctoral experience (4+ years' industrial experience in a pharmaceutical environment). Competency in modern synthetic organic/medicinal chemistry and working knowledge of standard analytical methods (HPLC, CE, GC, MS, UV, FTIR, NMR) are essential. Must have supervisory experience. Two positions require demonstrated success in combinatorial chemistry including library production and lead optimization (peptidomimetics and/or small molecules). One position requires expertise in molecular modeling for drug discovery (MSI and/or Tripos software).

STAFF SCIENTIST/SR. RESEARCH SCIENTIST Gene Search

Requires Ph.D. in Genetics, Molecular Biology or Computer Science and 5+ years' post-doctoral experience in Genetic Discovery research in an industrial or academic setting. Experience with computational biology/bioinformatics, broad familiarity with a large number of genetic databases and algorithms, and working knowledge of UNIX are all desired. Familiarity with gene discovery techniques (differential display, subtractive hybridization and Representational Difference Analysis), as well as experience with ABI DNA hardware and software are pluses.

We offer a competitive salary and excellent benefits package. Interested candidates should forward C.V. and salary requirements to: **Chugai Biopharmaceuticals, Inc., Attn: Human Resources, 6275 Nancy Ridge Drive, San Diego, CA 92121.** CBI supports a drug-free workplace. We are an Equal Opportunity Employer.



CHUGAI BIOPHARMACEUTICALS, INC.

MIT

DIRECTOR, INSTRUMENTATION LABORATORY

The Department of Chemistry seeks a Director of its Instrumentation Laboratory, which currently houses NMR, Mass Spec, EPR, and peripheral instrumentation used routinely by faculty and students in the department. The Lab currently employs four staff members who are involved in providing mass spectra as a service, instrument maintenance and repair, teaching, and computer maintenance. The Director will assume supervisory responsibility for the laboratory staff; instrument acquisition, including proposal preparation, repair, and maintenance; teaching and training of student operators; the implementation of current instrumental research techniques in response to faculty needs; and the operating budget and staff development for the lab.

Requirements: experience in modern multidimensional NMR spectroscopy. Ph.D. in chemistry preferred. Ability to interact with students and faculty with diverse needs and interests is important.

Interested candidates should submit two copies of a resume and cover letter referencing Job No. 96-0529C to: Kenneth Hewitt, MIT Personnel Office, Bldg. E19-239, 77 Mass. Avenue, Cambridge, MA 02139-4307.



Massachusetts Institute of Technology
An Equal Opportunity/Affirmative Action Employer
Non-Smoking Environment

PENNSTATE



FELLOWSHIPS AVAILABLE IN MICROBIAL STRUCTURAL BIOLOGY NOVEL ENZYMES FROM DIVERSE MICROBES

A group of the life sciences faculty at Penn State is pleased to announce the establishment of a National Science Foundation Research Training Grant whose goal is to foster innovative, interdisciplinary research and training at the interface between the chemistry/biochemistry and the physiology of diverse microbes. Novel aspects of the program include dual preceptors for graduate students; research teams that encompass undergraduate, graduate, and postdoctoral students; and extramural internships in a variety of professional environments.

Faculty participants: S.J. Benkovic: Enzyme Reaction Mechanisms; J.M. Bollinger: Assembly of Fe-S Clusters in Enzymes; J.E. Brenchley: Physiology of Psychrophiles; D.A. Bryant: Electron Transport Pathways in Photosynthetic Bacteria; G.K. Farber: Protein Crystallography; J.G. Ferry (Director): Physiology of Archaea; J.H. Golbeck: Spectroscopy of Electron Transport in Photosynthetic Bacteria; K.A. Johnson: Enzyme Reaction Mechanisms; J.T.L. Lecomte NMR Spectroscopy of Proteins; C.R. Matthews: Protein Folding and Assembly; K.M. Merz: Computational Biochemistry

Fellowships for undergraduate, graduate, and postdoctoral students are available. Information and applications can be obtained from **Yvonne Kladde (yvk102@psuvm.psu.edu), program secretary, NSF Research and Training Program, 108 Althouse Laboratory, The Pennsylvania State University, University Park, PA 16802.** Penn State is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION

BIOCHEMIST, MOLECULAR BIOLOGIST FOR AN ASSISTANT/ASSOCIATE PROFESSOR POSITION IN FORENSIC MOLECULAR BIOLOGY

Scientists with a background in forensic science and molecular biology/biochemistry are urged to apply for an assistant/associate professor opening in the Chemistry Department's Forensic Science program. A doctoral degree in chemistry, biochemistry, or molecular biology is preferred; a doctoral degree in an associated field will be considered.

It is preferred that the candidate have two years of crime laboratory experience in molecular biology and crime laboratory operations to include classical biochemical and immunological procedures and case reporting and testifying. A candidate with molecular biology experience including RFLP analyses (with an awareness of radioactive and non-radioactive techniques) and PCR methods (including Polymarker and STR analyses), will be considered.

The ideal candidate is expected to establish a well-funded research program dealing with the problems encountered by crime laboratory scientists. The faculty member will be responsible for developing the newly initiated Forensic Molecular Biology track in the Forensic Science curriculum. This will include recruitment and counseling of students, design and implementation of new courses in Forensic Molecular Biology, and working with professional organizations. Up to 25% of the faculty member's time may be spent working in association with forensic professional organizations on a cooperative or contractual basis involving the development of training programs for current and new employees. The faculty member may have some teaching duties in undergraduate or graduate chemistry courses.

The University of Central Florida is a rapidly growing university with over 26,000 students in the expanding dynamic community of Orlando, Florida. Degree programs are offered at all levels. Applications and all support documents must be postmarked by September 30, 1996. Candidates should have three letters of recommendation sent to: **Dr. Glenn Cunningham, Chair, Department of Chemistry, University of Central Florida, Orlando, FL 32816-2366.** Review of candidates' applications will begin immediately after the closing date and interviews are expected to begin in October. The candidate selected is expected to begin in January 1997.

The University of Central Florida is an equal opportunity, affirmative action employer and women and minorities are encouraged to apply.

THE WORLD DEPENDS ON THE

Commitment

Of Our Scientists.

It takes world-class employees to make a world-class company.

At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. As we expand our research efforts, the Genomics Research Area of our Pharmaceutical Products Division is seeking multi-disciplinary research scientists to apply the revolutionary tools of genomics and molecular biology to drug discovery.

ASSOCIATE MOLECULAR BIOLOGIST

The scope of this position will cover gene cloning or expression and the biochemical purification of proteins. Other responsibilities include handling pathogenic microorganisms.

We're seeking a seasoned scientist with a BS or MS in Molecular Biology or Biochemistry and experience in gene cloning and DNA manipulation. We also require a background in bacteria handling, and some experience in protein purification.

With 50,000 employees worldwide and more than \$10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job #96-NCW-2012, D583, AP51, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

ABBOTT
LABORATORIES
Quality Health Care Worldwide

OAKLAND UNIVERSITY
BIOLOGICAL SCIENCES

Applications are invited for three **tenure-track** positions at the Assistant Professor level (one of which may be considered at Associate Professor level) starting **August 15, 1997**.

1. **Biochemistry**
2. **Eukaryotic Genetics**
3. **Molecular Biology**

Candidates must have a record of excellence in research using modern techniques of molecular biology and/or biochemical signaling with biomedical applications, and demonstrated potential for excellence in teaching. Start-up funds and laboratory space are available for establishing a vigorous research program. A Ph.D. and postdoctoral experience are required.

Oakland University is a state-supported institution situated on a 1,400-acre campus 25 miles north of Detroit. The Department of Biological Sciences is a well-equipped, research-oriented department in the College of Arts and Sciences. Successful applicants will be expected to develop and maintain an independently funded research program. Teaching responsibilities include a) an introductory biology course and a course in the candidate's specialty (biochemistry, genetics, microbiology, immunology, or parasitology) in alternate semesters, and b) participation in the departmental Master's degree program and an interdisciplinary doctoral program in biomedical sciences.

Applications will be reviewed for further consideration, including the interview process, by a search committee for each position. Applicants should identify the position of interest, submit curriculum vitae, a statement of research plans and teaching potential, key reprints, and names of three references before **September 27, 1996**, to:

Search Committee
Department of Biological Sciences
Oakland University
Rochester, MI 48309-4401

Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

SCHOOL OF BIOLOGICAL SCIENCES

LECTURER IN
MARINE BIOLOGY

(CONVERTIBLE)

LECTURER: \$43 042 - \$51 113 PA

FACULTY OF
SCIENCE AND
ENGINEERING

REF 96131. The School of Biological Sciences wishes to appoint a lecturer with an interest in the biology/ecology or behaviour of marine organisms or communities. The appointee will join an interdisciplinary School, within which the existing Marine Biology group comprises a recently appointed Professor of Marine Biology and two other academic staff. The appointment of a further two academic staff to support marine aquaculture activities is also in progress. Current research activities within the group include: benthic community ecology; larval ecology and behaviour; marine microbiology and fish and fisheries biology.

Candidates with research interests which complement and extend the activities of the group are especially encouraged to apply. Appointees will have access to facilities in Adelaide and the new \$2 million Lincoln Marine Science Centre in Port Lincoln. The position will be available from January 1997 for a period of three years initially, with the possibility of conversion to a continuing position.

The appointee will contribute to the development and teaching of Marine Biology within the undergraduate program; supervise graduate students (Honours, MSc and PhD); conduct research in an aspect of marine biology or ecology and participate in the research programmes of the School.

A PhD or equivalent and an aptitude for, and interest in, teaching undergraduates and supervising postgraduates is essential. Applicants should have demonstrated significant research ability and output. Appointment at Lecturer level is not normally made above \$47 885 pa.

Further information and position documentation must be obtained from Associate Professor J Wheldrake, Head of the School of Biological Sciences, phone (618) 201 2229, fax (618) 201 3015 or email john.wheldrake@flinders.edu.au. Prospective applicants are also encouraged to discuss the position with Professor S Hall, phone (618) 201 2280, fax (618) 201 3015 or email stephen.hall@flinders.edu.au. Further information in relation to this position and the School of Biological Sciences can be obtained via the World Wide Web site <http://www.bio.flinders.edu.au:80/>

Applicants must address the selection criteria in the documentation. Applications, quoting the reference number, and giving qualifications, experience and the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged, in duplicate, with the Manager, Human Resources, Flinders University, GPO Box 2100, Adelaide SA 5001, or fax (618) 201 3131 by 4 October 1996.

The University reserves the right not to make an appointment or to invite applications.

EQUAL OPPORTUNITY IS UNIVERSITY
POLICY



FLINDERS
UNIVERSITY
ADELAIDE
AUSTRALIA

DIRECTOR Biotechnology Laboratory The University of British Columbia

The Biotechnology Laboratory at the University of British Columbia was established in 1987 to catalyze the interdisciplinary development of Biotechnology at UBC. The laboratory now comprises 13 independent faculty members with a strong record in attracting external funding. It includes an efficient administrative support system, excellent core facilities for molecular biology, a bioprocessing unit, and a teaching laboratory. The University is now searching for a distinguished scholar to serve as a new Director commencing July 1, 1997, or soon thereafter.

The candidate should be an internationally recognized scientist who will provide leadership, direction and vision to the Biotechnology Laboratory. The candidate will possess effective interpersonal and administrative skills and the ability to maintain strong, positive interactions with other academic units on campus and with the private biotechnology sector. The candidate should be willing to participate in fund-raising activities.

The new Director will lead the continued development of the Biotechnology Laboratory and will be provided with generous laboratory space, administrative support staff and facilities. The new Director will also hold an academic appointment in an appropriate Department.

UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The position is subject to final budgetary approval.

Applications or nominations for the directorship should include the curriculum vitae of the candidate, together with the names of three references, and be sent by **September 15, 1996**, to:



Search Committee
Biotechnology Laboratory Directorship
c/o Dr. Barry C. McBride
Dean of Science
6270 University Boulevard, Room 1505
Vancouver, BC V6T 1Z4
CANADA

UNIVERSITY OF CALIFORNIA-DAVIS INSECT SYSTEMATIST Evert & Marion Schlinger Endowed Chair in Insect Systematics

The Department of Entomology invites applications for a nine-month tenured/eleven-month term faculty position on the Davis campus. Appointment will be at the Associate Professor or Professor level (15% teaching) in the College of Agricultural and Environmental Sciences and as Associate Entomologist or Entomologist (85% research) in the Agricultural Experiment Station. Ph.D. in a biological science, evidence of intellectual leadership in modern insect systematics, with training and experience appropriate to the maintenance of a world-class research program in systematics of any group of insects with a preference for parasitic Hymenoptera. The successful candidate will present formal courses in areas related to his/her specialization and contribute to courses in the departmental teaching program. Support funds will be available annually from the proceeds earned by the Endowed Chair corpus, but will be expected to develop extramural sources of funding from state and federal sources. Office and laboratory space will be provided in the Bohart Museum of Entomology. Salary will be according to the University of California pay schedule for the Associate or Professor rank with possible adjustment of within-rank steps in recognition of prior accomplishment.

This position is available January 1, 1997. Letter of application, curriculum vitae, a brief statement of career goals for teaching and research, transcripts (if within five years of graduation), reprints and the names and addresses of three individuals familiar with the professional accomplishments of the applicant should be sent to **Chair, Search Committee—Endowed Chair, Department of Entomology, University of California, Davis, CA 95616-8584**. Open until filled, but to ensure consideration, applications should be submitted by October 1, 1996.

The University of California-Davis is an equal opportunity/affirmative action employer.

GLOBAL CAREER OPPORTUNITIES



Deutsches
Krebsforschungszentrum
Stiftung des öffentlichen Rechts



Universität
Heidelberg

Professorship (C3) for Molecular Genome Analysis

The German Cancer Research Center (DKFZ) and the Faculty of Medicine at the University of Heidelberg will jointly appoint a scientist as head of a division at the DKFZ.

Applicants should have outstanding scientific qualifications in the fields of molecular genome analysis focused on cancer-related genes. Activities within the Human Genome Project are desired. The position requires the German "Habilitation" or an equivalent scientific qualification. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 10, 1996, to:

**Deutsches Krebsforschungszentrum, Stiftungsvorstand,
Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.**



DIRECTOR, CENTER FOR THE ENVIRONMENT/CORNELL UNIVERSITY

Cornell University invites applications for the position of Director of the Center for the Environment (CfE), a center chartered to provide coordination for environmental research, teaching, and extension programs across the University. The successful candidate will have strong leadership capabilities and be internationally recognized for intellectual skills in some aspect of environmental research or activity. In addition to serving as the administrator for the Center half time, the Director will have a tenured faculty appointment in an appropriate academic department within Cornell University and will spend half of his/her time pursuing individual interests in research, teaching, or extension as a faculty member. Leadership and management skills are essential. Applications are due September 15, 1996, and will be reviewed beginning October 1, 1996. Letters of interest and vitae; nominations; and information requests, including confidential inquiries, should be directed to: **Daryl Lund, Dean, College of Agriculture and Life Sciences, 260 Roberts Hall, Cornell University, Ithaca, NY 14853**. *Cornell is an Equal Opportunity/Affirmative Action Employer.*

University of Cambridge**Professorship of Zoology
and Directorship of the
Museum of Zoology**

Applications are invited for the above newly-established Chair from evolutionary biologists with an established record of excellence in research in one of the following areas: molecular evolution, biodiversity, palaeontology, or systematics. The successful candidate will also be appointed as the Director of the Museum of Zoology.

Pensionable stipend £38,993

Informal enquiries should be made to Professor Malcolm Burrows, Department of Zoology, Downing Street, Cambridge CB2 3EJ, tel: +44 (0)1223 336601, E-mail: mb135@cus.cam.ac.uk. Further information may be obtained from the Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge CB2 1TT, to whom applications (10 copies), marked 'confidential', should be sent with the names of two referees by 30 September 1996.

The University follows an equal opportunities policy.



Deutsches
Krebsforschungszentrum
Stiftung des öffentlichen Rechts



Universität
Heidelberg

**Professorship (C3)
for
Tumovirus Characterization**

The German Cancer Research Center (DKFZ) and the Faculty of Medicine at the University of Heidelberg will jointly appoint a scientist as division head within the research program of Applied Tumor Virology

Applicants should have outstanding scientific records in the field of tumovirus characterization and be able to contribute with innovative ideas to the research program Applied Tumor Virology. The incumbent will also be responsible for the Reference Center for Human Pathogenic Papillomaviruses. The position requires the German "Habilitation" or an equivalent scientific qualification. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 10, 1996, to:

Dekanat der Medizinischen Fakultät der Ruprecht-Karls-Universität Heidelberg, Im Neuenheimer Feld 346, D-69120 Heidelberg, Germany.

**SR. VICE
CHANCELLOR
ACADEMIC AFFAIRS**

University of California, San Diego invites nominations and applications for the position of Senior Vice Chancellor-Academic Affairs. The position acts as principal advisor to, and acts for, the Chancellor; and is responsible for academic personnel and resource allocations for the general campus. Candidates are sought who possess distinguished academic background, a strong commitment to teaching and scholarly values, and proven leadership.

For full consideration, please submit nominations and applications by 9/1/96 to: Prof. David Miller, Chair, Search Committee, UC, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0967 or E-mail sendcv@ucsd.edu. EOE/AA Employer.



Deutsches
Krebsforschungszentrum
Stiftung des öffentlichen Rechts

The Deutsches Krebsforschungszentrum offers a position, limited to a five year period for the

**Head of the Division
Mechanisms of Viral Oncogenesis**

Applicants should have outstanding scientific qualifications and focus on innovative research programs like "Mechanisms of viral oncogenesis" with special emphasis on viral interference with the cell cycle regulation.

The position is planned for a junior research group. Scientific qualifications of this department will contribute to the DKFZ research program Applied Tumor Virology. Remuneration will be according to BAT 1a. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 30, 1996, to:

**Stiftungsvorstand, Deutsches Krebsforschungszentrum,
Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.**

POSITIONS OPEN

Bermuda Biological Station for Research, Inc. (BBSR) (An independent U.S. not-for-profit marine research and educational institution incorporated in New York).

DEPUTY DIRECTOR—BBSR is looking for a Deputy Director to assist the Director in the management and oversight of BBSR: an active, growing research and educational organization located in Bermuda. An individual with an active extramural funded science program in any related marine discipline would be preferred, but this is not a requirement for the position. The position will cover between 6 and 12 months of salary per year and will be filled at the Associate or Senior Scientist level. Minimum qualifications: Ph.D. degree and at least five years of successful management experience in a U.S. not-for-profit organization, or comparable experience. Send letter, résumé, salary requirements, and a list of at least three professional references with addresses and daytime telephone numbers to: **Dr. Anthony Knap, Director, Bermuda Biological Station for Research, Inc., Ferry Reach, St. George's GE 01, Bermuda.** Email: knap@bbsr.edu. This position will remain open until filled.

DIRECTOR OF MANUFACTURING

Jenner Technologies is an emerging biotechnology company developing products for the immunotherapy of cancer and related conditions. **SENIOR LEVEL** position with responsibility for outsourcing and supervision of contract manufacturing of diverse products for clinical trials including chemical synthesis of glycoproteins, lipoproteins and various lipid products, recombinant proteins produced in baculovirus and *E. coli* expression systems, and liposomal formulations. Prior industry experience in synthetic and recombinant manufacturing processes, with working knowledge of quality control and regulatory affairs essential. The successful candidate will have excellent scientific and communications skills, and be a self-starter. Contact:

Anthony E. Maida III, M.A., M.B.A.
Chief Executive Officer
Jenner Technologies
828 Eastbrook Court
Danville, CA 94506-1206
FAX: 510-736-5910
Email: vaxp@aol.com

Applicants are sought for the position of **MANAGING DIRECTOR** of a new institute that will provide multidisciplinary faculty teams to work with industry and government on scientific/environmental problems. This person will assess project requests, oversee day-to-day operations of project and budget management, and will assist the Institute Director in the sensitive task of team-building. The Managing Director also will assist in seeking grants applicable to the institute's mission, and will be active in raising permanent endowment funds, as well as marketing the institute's expertise. A science or engineering degree is preferred. The successful applicant also must have excellent communication, management, and interpersonal skills. Salary commensurate with qualifications (pending final approval). Send résumé with list of three references to: **Dr. Patrick Cassidy, Director, IEIS, Department of Chemistry, Southwest Texas State University, San Marcos, TX 78666.**

POSTDOCTORAL POSITIONS IN LUNG MOLECULAR AND CELLULAR BIOLOGY

Long-term, NIH funded, **POSTDOCTORAL POSITIONS** are available (rank based upon qualifications) to study airway epithelial cell and matrix ultrastructure, biochemistry, and function in health and disease. Candidates with advanced experience in molecular biology, cell culture, and immunocytochemistry are encouraged to apply. Opportunities to interact with a variety of basic scientists at this and neighboring Chicago universities exist. For consideration, please Email résumé to: **cmurias@rush.edu** or mail/FAX to: **JK, 729 S. Paulina Street, Chicago, IL 60612.** FAX: 312-942-2136. *Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study transmembrane signaling and receptor-coupled regulation of gene expression in neural tissues. Position requires training in pharmacology, neuroscience, or related field, and demonstrated experience in molecular biology. Please send complete curriculum vitae, statement of research experience and interests, and list of references to: **Dr. Ashiwell S. Undie, Neuroscience and Pharmacology Groups, University of Maryland School of Pharmacy, Medical Biotechnology Center, 20 N. Pine Street, Baltimore, MD 21201-1180 USA.** FAX: 410-706-2973; Email: undieas@pharm.mtp.ab.umd.edu. *Applications from minorities and women are strongly encouraged.*

POSITIONS OPEN

POSTDOCTORAL POSITION SCRIPPS RESEARCH INSTITUTE

One **POSTDOCTORAL POSITION** is available to study structure/function relationships of serine proteases and/or serpins. Our current interests include, but are not limited to, the co-evolution of specificity between serine proteases and serpins (see *Nature*, 339:721-724; *PNAS*, 87:3530-3533; *JBC*, 265:21423-21426), regulation of the activity of serine proteases by zymogen activation (see *Science*, 262:419-421; *JBC*, 270:18319-18322; *JBC*, 270:23444-23449), and the molecular basis of substrate specificity for chymotrypsin-like enzymes (see *JBC*, 270:7558-7562; *PNAS*, 92:7627-7631; *JBC*, 271:4461-4467). A wide variety of techniques, including molecular modeling, site specific mutagenesis, enzyme kinetics, phage display technology, and molecular evolution will be utilized to accomplish this work. The Scripps Research Institute provides a very stimulating scientific environment, and La Jolla is a very pleasant place to live. If interested in this position, please send a curriculum vitae and two letters of recommendation to: **Dr. Edwin Madison, The Scripps Research Institute, Department of Vascular Biology (VB-1), 10550 N. Torrey Pines Road, La Jolla, CA 92037.** FAX: 619-784-723; Email: madison@scripps.edu. *We value and support diversity in our workforce. Affirmative Action/Equal Opportunity Employer.*

A **POSTDOCTORAL RESEARCH POSITION** is available for structure-function studies of the renal Na⁺/dicarboxylate cotransporters (*J. Biol. Chem.* 270:5779, 1995; *Am. J. Physiol.* 270:F642, 1996). Preference will be given to candidates with experience in one or more of the following areas: molecular biology, protein biochemistry, transport physiology, expression of proteins in mammalian cells or *Xenopus* oocytes. Send curriculum vitae and description of research experience to: **Dr. Ana M. Pajor, Department of Physiology, College of Medicine, University of Arizona, Tucson, AZ U.S.A. 85724-5051.** FAX: 520-626-2383; Email: Pajor@Biosci.Arizona.edu. Applications will be reviewed starting September 1, 1996, and continue until position is filled. *The University of Arizona is an Affirmative Action/Equal Opportunity/ADA Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL FELLOWSHIP

Position available to study radical-induced DNA changes in relation to carcinogenesis. A strong background in biochemistry, experience in analytical chemistry (e.g., including spectroscopic/spectrometric techniques), and statistics is required. Send curriculum vitae and names and addresses of three references to: **Dr. D. C. Malins, Pacific Northwest Research Foundation, 720 Broadway, Seattle, WA 98122.** FAX: 206-726-1235. *An Equal Opportunity/Affirmative Action Employer. Minorities/Females.*

POSTDOCTORAL POSITION available to study yeast RNA polymerase. Experience in molecular biology is essential and prior experience in yeast and/or biochemistry preferred. Please send curriculum vitae and names of three references to: **Dr. Nancy Woychik, Department of Molecular Genetics and Microbiology, University of Medicine and Dentistry-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.** Telephone: 908-235-4534; FAX: 908-235-5037. *University of Medicine and Dentistry New Jersey is an Affirmative Action/Equal Opportunity Employer. Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

POSTDOCTORAL positions available for newly graduated Ph.D. scientists with molecular biology/genetics training to study oxidative mechanisms of neurodegeneration after stroke. Approaches include transgene manipulation in rodents, RT-PCR, *in situ* hybridization, and gene expression in the central nervous system. Submit curriculum vitae and three letters of recommendation to: **Dr. Pak H. Chan, Department of Neurosurgery, C-224, University of California, San Francisco, CA 94143-0651.** *Equal Opportunity Employer.*

A **POSTDOCTORAL** position is available to investigate the molecular interactions responsible for ligand mediated G-protein coupled receptor activation. A strong background in either molecular biology or organic chemistry is preferred.

Qualified applicants should respond to: **Michael R. Lerner, M.D., Ph.D., Department of Dermatology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9069.** FAX: 214-648-9292.

University of Texas Southwestern is an Affirmative Action/Equal Opportunity University.

POSITIONS OPEN

NIH PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELLULAR ASPECTS OF BRAIN AGING

PREDOKTORAL AND POSTDOCTORAL TRAINING POSITIONS are available immediately for highly motivated individuals interested in applying modern techniques in molecular and cellular biology to explore the processes of brain aging. Training faculty at the University of Kentucky are a highly interactive group of scientists dedicated to the investigation of the basic processes of normal and pathological brain aging. Preceptors areas of expertise are diverse and include: neurodegenerative diseases, mechanisms of plasticity, neuroimmune function in aging, neuroendocrinology, mechanisms of cell death, and biological rhythms. Eligibility: *U.S. citizens or permanent residents.* Training opportunities are available in the laboratories of: **R. Booze, S. Estus, D. Gash, M. Getchell, T. Getchell, J. Herman, L. Hersch, M. Kindy, P. Landfield, M. Mattson, J. McGillis, D. McMahon, D. Noonan, B. Peretz, T. Roszman, S. Scheff, J. Slevin, T. Vanaman, P. Wise.** Interested individuals should contact: **Dr. Phyllis M. Wise, Department of Physiology, College of Medicine, University of Kentucky, Lexington, KY 40536-0084.** Email: pmwise1@pop.uky.edu. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to participate in studies on the structure, function, and regulation of components of signal transduction pathways. Prefer applicants with experience in molecular cloning and recombinant DNA techniques. Send curriculum vitae to: **Dr. Zahi Damuni, Associate Professor, Department of Cellular and Molecular Physiology, The Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033.** Telephone: 717-531-4195; FAX: 717-531-7667. *For your health, Hershey Medical Center is a smoke-free campus. We are an Equal Opportunity/Affirmative Action Employer, and encourage minority and female applicants to apply.*

RESEARCH FELLOW/ASSOCIATE

M.D. or Ph.D. scientists are invited to apply for a senior **POSTDOCTORAL** research fellow/associate position to study the von Hippel-Lindau gene. Candidates should have expertise in cell and molecular biology, including protein biochemistry, and a prior record of research accomplishments in molecular oncology (preferably in the area of tumor suppressor genes). Send curriculum vitae and three letters of recommendation to: **William G. Kaelin, Jr., M.D., Division of Neoplastic Disease Mechanisms, Dana-Farber Cancer Institute, 44 Binney Street, Mayer 647, Boston, MA 02115.**

POSTDOCTORAL FELLOWSHIP open at the University of Alabama at Birmingham in high field (4.1 T) human magnetic resonance spectroscopy. Background in *in vivo* magnetic resonance spectroscopy or imaging, and C or Pascal programming required. Research focuses on spectroscopic studies in multiple sclerosis, with opportunities in coherence transfer spectroscopy, metabolic modeling, etc. Send curriculum vitae and names and telephone numbers of three references to: **J. W. Pan, M.D., Ph.D., Center for Nuclear Imaging Research, 828 8th Court South, University of Alabama, Birmingham, AL 35294.** FAX: 205-934-7367; Email: jul@nmrsparc.onir.uab.edu.

UNIVERSITY OF CHICAGO

POSTDOCTORAL POSITION available immediately. Ongoing projects involve the use of viral vectors (gene therapy) in an animal model of neurodegenerative disease, and in a transgenic model of neuroblastoma. Provide curriculum vitae, brief summary of doctoral work, and three names of references to: **Fernette Eide, M.D., Email: feide@drugs.bsd.uchicago.edu; FAX: 312-702-9060.** *Equal Opportunity/Affirmative Action Employer.*

PLANT SCIENTIST Perennial Grain Development

The Land Institute (non-profit) seeks a Ph.D. to join a program in **NATURAL SYSTEMS AGRICULTURE** devoted to breeding for high seed yield, plant vigor, and disease resistance within diverse field plots of perennial grasses, legumes, and sunflowers. Contribute to a curriculum including crop evolution, plant breeding principles, population genetics, and biotechnology/computer modeling in the development of perennial grain polycultures. Expectations to publish, secure grants, and teach. Send curriculum vitae, research/teaching interests, and three letters of recommendation to: **Dr. Jon K. Piper, The Land Institute, 2440 East Water Well Road, Salina, KS 67401.** Telephone: 913-823-5376; Email: theland@igc.apc.org.

POSITIONS OPEN

MICROBIOLOGY/BIOREMEDIATION POSTDOCTORAL POSITION Salary Range \$40-45,000 annually

The Environmental Restoration Division at Lawrence Livermore National Laboratory (LLNL) develops and applies state-of-the-art and innovative environmental restoration technologies and processes. We are seeking a microbiologist to work with a team of scientists focusing on the remediation and the fate of fuel hydrocarbons and chlorinated organic compounds in ground water and soils. Applicants should have demonstrated technical accomplishments in the biodegradation field and have the capacity to direct their own research, working semi-independently in a collaborative environment. Ph.D. in microbiology or a related field is required. Organic analytical skills are essential and experience in anaerobic microbiology is desired. Broad experience in microbial physiology, biochemistry, and molecular techniques is advantageous.

LLNL offers a competitive salary/benefits package. One year term appointment can be extended to a maximum of three years. Please send curriculum vitae, description of research interests, and names and addresses of three references by September 20, 1996, to: **Dr. Anne Happel, Lawrence Livermore National Laboratory, P.O. Box 808, L-530, Department AJSC8G6RS, Livermore, CA 94551-0808.** *Lawrence Livermore National Laboratory is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIPS MOLECULAR CANCER BIOLOGY

POSTDOCTORAL POSITIONS open September 1, 1996 with a newly established research group at the M.D. Anderson Cancer Center for talented Ph.D. and/or M.D. scientists in the following disciplines:

Apoptosis—Current studies include: 1) mechanisms by which apoptotic responses to chemotherapy are modulated by growth factor-mediated signal transduction pathways and by regulators of cell cycle traversal; 2) mechanisms of apoptosis induced by therapeutic agents including the role(s) of anti- and pro-apoptotic gene products.

Growth Factors—Ongoing investigations include: 1) novel mechanisms of action of anti-EGF receptor monoclonal antibodies; 2) mechanisms of heregulin/NDP action; 3) regulatory interactions between receptor tyrosine kinases and estrogen receptors in breast carcinoma cells.

Cell Cycle—Research focuses on: 1) regulation of cyclin dependent kinase inhibitors; 2) regulation of nuclear matrix proteins.

Experience in molecular biology, biochemistry, and signal transduction is desirable. For immediate consideration, please send curriculum vitae and names of three references to one of the three Principal Investigators in the group: **Drs. John Mendelsohn, Rakesh Kumar, Zhen Fan, Laboratory of Cell Growth Regulation, University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 91, Houston, TX 77030.** *An Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIPS Bioactive Lipids in Neuronal Degeneration

Two positions available October 1, 1996, and January 1, 1997, for Ph.D. or M.D. with experience in molecular biology (i.e., PCR, Northern blotting, molecular cloning, EMSA) and neurochemistry. Projects involve dissecting out intracellular signaling pathways involving platelet-activating factor and eicosanoids in animal models of epileptogenesis and neuronal cell death. The laboratories are well equipped and will move in March 1997 to a newly built floor.

Send curriculum vitae, a letter briefly stating scientific background and career goals, and names and telephone numbers of three references to: **Dr. Nicolas G. Bazan, Louisiana State University Medical Center, Neuroscience Center, 2020 Gravier Street, Suite B, New Orleans, LA 70112.** *Louisiana State University Medical Center is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL POSITIONS: Cytokine-Receptor Recognition, Mimicry, Antagonism. One position starts September 1996, to map receptor recognition sites on IL5. A second, November 1996, to design mimetics and antagonists of IL5. Requires Ph.D. in biochemistry, or related experience in molecular biology and protein chemistry. Send résumés and three references: **Irwin Chaiken, Ph.D., University of Pennsylvania School of Medicine, 913 Stellar Chance Laboratories, 422 Currie Drive, Philadelphia, PA 19104.** FAX: 215-349-5572; Email: chaiken@mail.med.upenn.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP MOLECULAR RADIOBIOLOGY THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

A two-year **POSTDOCTORAL FELLOWSHIP** is available in the Division of Radiation Oncology of the Oncology Center. This fellowship is sponsored by a gift from ISOSTENT INC. to support a postdoctoral fellow to characterize radiation inhibition of arterial restenosis.

The Radiobiology Laboratory is seeking an individual who has successfully completed doctoral studies with demonstrated strength in molecular biology associated with cell death and proliferation. Knowledge of radiation biology is desirable, but not required. Applicants should send a letter of interest together with a current résumé and a list of three references to: **Dr. Jerry R. Williams, Director, Radiobiology Laboratory, Room 2-121, Johns Hopkins Oncology Center, 600 N. Wolfe Street, Baltimore, MD 21287-5001.**

The Johns Hopkins University is an Equal Opportunity, Affirmative Action Employer, and actively encourages interest from minorities and women.

POSTDOCTORAL POSITIONS available to study the catalytic mechanism, substrate specificity/rational inhibitor design, and regulation of protein-tyrosine phosphatases. Experience with enzyme kinetics, molecular biology, molecular modeling or protein crystallography required. Send curriculum vitae, names and telephone numbers of three references to: **Dr. Zhong-Yin Zhang, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** Email: zyzhang@aecom.yu.edu. *Equal Opportunity Employer.*

ANNOUNCEMENT

RESEARCH GRANTS ON LYME DISEASE PREVENTION

The American Lyme Disease Foundation, Inc. is providing support for three to five proposals of \$10,000 each (no overhead included) to initiate innovative research in preventing Lyme and other tick-borne infections. For details, contact: **David L. Weld, Executive Director, American Lyme Disease Foundation, Mill Pond Offices, 293 Route 100, Somers, NY 10589.** Telephone: 914-277-6970; FAX: 914-277-6974.

COURSES AND TRAINING

Short Course on Time-Resolved Fluorescence Spectroscopy

The Center for Fluorescence Spectroscopy (CFS), at the University of Maryland School of Medicine, is offering a short course on Principles and Applications of Time-Resolved Fluorescence Spectroscopy in Baltimore, March 24 to 28, 1997. The course will cover basic and advanced topics in fluorometry, including time- and frequency-domain measurements, Forster energy transfer, chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, and fluorescence microscopy. Textbook, course materials, lunches, and refreshments will be provided. The instructors include **Drs. J. R. Lakowicz, I. Gryczynski, and R. B. Thompson.** For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld, Ms. Suzy Rhinehart, or Professor J. R. Lakowicz** at the CFS, Department of Biochemistry and Molecular Biology, 108 North Greene Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; Email: cfs@sg.ab.umd.edu. Deadline for enrollment is February 28, 1997, with later enrollment if space permits.

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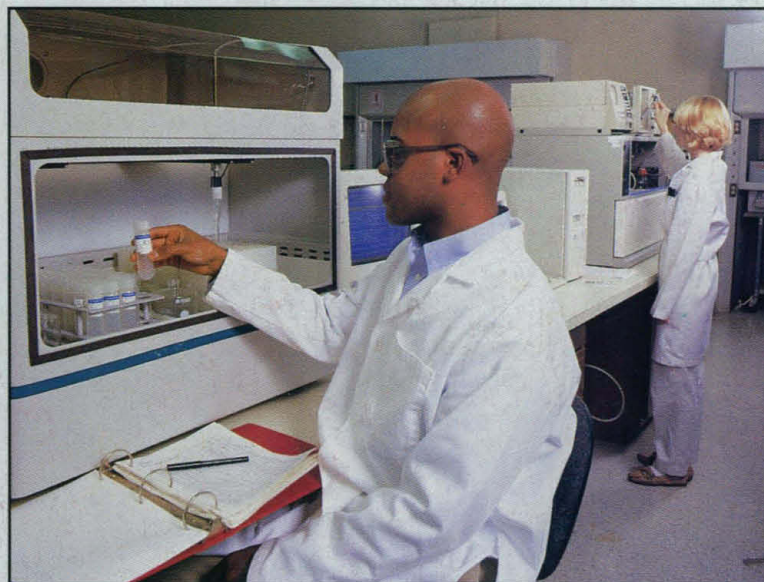
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