

## DISPLAY CLASSIFIED ADVERTISEMENTS

Call for rate and deadline information on display classified advertisements.

E-mail: science\_displays@aaas.org

Jill Steinberg  
Recruitment Display Advertising  
Telephone: (202) 326-6543  
FAX: (202) 289-6742  
E-mail: science\_displays@aaas.org

Gabrielle Boguslawski  
Recruitment Advertising Sales Manager  
Telephone: (718) 491-1607  
FAX: (202) 289-6742

Debbie Cummings  
European Recruitment Advertising  
Telephone: +44 (0) 1223 302067  
FAX: +44 (0) 1223 576208

## LINE CLASSIFIED ADVERTISEMENTS

### How to Submit a Line Classified Ad:

Send your ad text to: e-mail: science\_classifieds@aaas.org; fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. SCIENCE will edit and typeset ads according to SCIENCE style. **SCIENCE cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

**Estimates:** SCIENCE will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Eric Banks, Telephone: (202) 326-6555; or Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: science\_classifieds@aaas.org

**Credit Cards:** SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

**Cancellations:** Deadline for cancellation is Tuesday, 10 days prior to issue date.

**Discounts:** A 3% cash discount is granted to all prepaid ads.

**Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

**SCIENCE Professional Network:** Unless otherwise instructed, all classified advertisements, except for Positions Wanted ads, submitted for publication in SCIENCE are automatically posted on SCIENCE's online classified advertising service, SCIENCE Professional Network, at no additional charge.  
www.sciencemag.org

**Mail, FAX or E-mail materials to:**  
SCIENCE Classified Advertising  
1200 New York Avenue, N.W., Room 911  
Washington, DC 20005  
FAX: 202-289-6742  
E-mail: science\_classifieds@aaas.org (please include your telephone number in e-mail)

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

## POSITIONS OPEN



### CASE WESTERN RESERVE UNIVERSITY

#### FACULTY POSITION IN DNA TUMOR VIROLOGY

The Department of Molecular Biology and Microbiology at Case Western Reserve University invites applications for a tenure-track faculty position from individuals with demonstrated expertise in DNA tumor virology. Appointment will be made at the appropriate level, Assistant, Associate, or in exceptional cases Full Professor. The Department is especially interested in DNA virologists whose research encompasses links to tumor suppressor genes, cell cycle regulation, signal transduction pathways, DNA replication, or molecular mechanisms of viral pathogenesis including AIDS-associated malignancies. The position provides an attractive start-up package as well as opportunities for participation in an interdepartmental graduate program in molecular virology and the potential for collaboration with members of the NCI-designated Ireland Cancer Center and the AIDS Research Center. Please send curriculum vitae, a description of research interests, and the names of three references (including address and telephone number) to: **Chair of Search Committee, Department of Molecular Biology and Microbiology, 10900 Euclid Avenue, Cleveland, OH 44106-4960.** To assure consideration, all applications should be submitted before October 1, 1997. *CWRU is an Affirmative Action/Equal Opportunity Employer.*

#### FACULTY POSITIONS DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

Applications are invited for tenure-track faculty appointments at the rank of Assistant, Associate, or Full Professor. Applicants must have a Ph.D. and/or M.D. and postdoctoral training and must be a permanent resident or citizen of the United States. We are seeking individuals with expertise in molecular and/or cellular physiology with research interests that complement existing areas of excellence in cardiovascular and/or renal physiology. Special consideration will be given to candidates with research interests in the areas of regulation of extracellular matrix, angiogenesis, or hypertrophy of vascular or cardiac muscle. Successful applicants are expected to establish a nationally recognized research program in his/her field, supported by extramural funding, and contribute to the teaching of graduate and medical students. The department has a large nucleus of faculty in the areas of cardiovascular and renal physiology and offers excellent opportunities for research collaboration in many areas, including vascular biology, hypertension, heart failure, diabetes and obesity, atherosclerosis, and pre-eclampsia.

Applicants should send a curriculum vitae, an indication of past and current research funding, a statement of research interests and career goals, and the names of at least three references to:

**Faculty Search Committee  
Department of Physiology and Biophysics  
University of Mississippi Medical Center  
Jackson, MS 39216-4505**

*Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.*

#### FACULTY POSITION YALE UNIVERSITY DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY

The Department of Molecular Biophysics and Biochemistry seeks applicants for an opening at the Assistant Professor level in the area of biochemistry, molecular biology, or molecular genetics. Our department spans a broad range of areas from structural to molecular biology, and is located in both the Faculty of Arts and Sciences and the School of Medicine of the University. Applications should include a curriculum vitae, a statement of research interests, reprints or preprints, and three letters of references to be forwarded separately. Completed applications should be sent to: **Faculty Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, 266 Whitney Avenue, P.O. Box 208114, New Haven, CT 06520-8114. Telephone: 203-432-5593. Application Deadline: October 1, 1997.**

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

## POSITIONS OPEN

#### FACULTY POSITION: BIOCHEMIST/ MOLECULAR BIOLOGIST

The Texas A&M University System Department of Poultry Science has a vacancy for a tenure-track Assistant Professor position in biochemistry/molecular biology with a 60 percent research and 40 percent teaching appointment. Candidates should have a Ph.D. in basic sciences and additional postdoctoral training in molecular biology. The individual must have demonstrated experience or interest in working with avian species of commercial importance. The successful applicant is expected to develop a research program with strong focus on fundamental biology with a long term commitment to applying advanced techniques in molecular and cellular biology to identify cellular mechanisms and genes important to poultry performance and production. The individual selected will be expected to develop and maintain an active research program in the areas of avian reproduction, growth, or genetics; seek research funds; and communicate research results to the poultry industry of the state and nation. The successful applicant will be expected to develop and teach one undergraduate course in poultry physiology or genetics and one graduate course in his/her area of expertise. Laboratory facilities and start-up funds for research are available. The Department of Poultry Science has active graduate student programs, excellent research facilities, and close ties with the College of Veterinary Medicine, Medical Health Science Center, the intercollegiate faculties of Genetics and of Molecular Cell Biology, the Center for Animal Biotechnology, and/or the Center for Animal Genetics in the Institute of Biosciences and Technology. Review of applications will begin on September 1, 1997. Submit curriculum vitae with publications record, transcripts, a brief statement of research interest, and three letters of recommendation to: **Dr. Alan Sams, Search Committee Chair, Department of Poultry Science, Texas A&M University System, College Station, TX 77843-2472. Telephone: 409-862-1518; FAX: 409-845-9221.**

*Texas A&M University is an Affirmative Action, Equal Opportunity Employer.*

#### STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions available for tenure-track faculty appointments, open rank, in the general areas of **ORGANIC CHEMISTRY** or **PHYSICAL CHEMISTRY**. Completed applications must be received by October 15, 1997. Appointment commences on September 1, 1998. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels.

Applications in the general area of organic chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

**Chair, 1997-98 Organic Chemistry  
Search Committee  
Department of Chemistry  
Stanford University  
Stanford, CA 94305-5080**

Applications in the general area of physical chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

**Chair, 1997-98 Physical Chemistry  
Search Committee  
Department of Chemistry  
Stanford University  
Stanford, CA 94305-5080**

*Stanford University is committed to Equal Employment Opportunity through Affirmative Action and is eager to identify minority persons and women with appropriate qualifications.*

**ASSISTANT PROFESSOR. PLANT ECOLOGIST.** The expanding Department of Biological Sciences at Florida Atlantic University invites applications for a tenure-track position. Faculty are expected to participate in the teaching of both undergraduate and graduate courses. Please submit a résumé, pertinent reprints, a statement of research and teaching interests, and the names of three references. Mail applications to: **Dr. Daniel F. Austin, Search Committee Chair, Department of Biological Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431-0991.** *Florida Atlantic University is an Equal Opportunity/Affirmative Action Employer. The closing date is 15 September 1997.*

# CHIRON

## A GLOBAL LEADER IN BIOTECHNOLOGY

CHIRON CORPORATION's mission is to end human suffering caused by disease through the development of products that transform the practice of medicine. Since 1981, we have been at the forefront of biotechnology, using genetic engineering and other tools to develop products for the diagnosis, prevention and treatment of human disease. Currently, we seek the following individuals to join our global team in the beautiful San Francisco Bay Area.

*Featured opportunities: **MD Director** to develop and oversee gene therapy and clinical trials and **Director/Associate Director** to work on clinical research as a member of our Vaccine team. Pharmaceutical experience is strongly preferred for both positions. Respond to Job Code: JC*

### POSTDOCTORAL SCIENTIST Bioorganic Chemistry

As a member of the Chiron Technologies team, you will investigate the synthesis and biological applications of structured non-natural biopolymers. State-of-the-art combinatorial synthesis technologies will be used to investigate new functions of sequence-specific heteropolymers, primarily N-substituted glycines or peptoids. Your PhD in synthetic organic or bioorganic chemistry should be supported by strong organic synthesis skills and some experience in either solid-phase synthesis or automated instrumentation. Job Code: 2742

### PROJECT MANAGEMENT - MANAGER Drug Development

You will manage cross-functional, product-specific drug development teams with responsibility for all aspects of development strategy and implementation. You will facilitate team productivity and coordinate, prepare and implement the Quality Development Plan to achieve specified timelines and budgets. You will also ensure excellent communication among team members and collaborators as well as coordinate project presentations to management. You must have previous project management experience with 5+ years of healthcare-related experience, preferably in therapeutic drug development. An advanced degree in a scientific discipline desired. Strong interpersonal communication and matrix management skills essential. Job Code: 2244

### PROJECT MANAGER Nucleic Acid Diagnostics

Join us as we pioneer the emerging field of Nucleic Acid Diagnostics (NAD) technology. You will manage cross-functional teams and be responsible for planning and controlling all project aspects according to the

project plans, project design goals, project schedules (with well defined deliverables and milestones) and FDA and worldwide regulatory requirements related to medical diagnostics. This may involve new product/system development, product/process improvements and/or product applications. You will need a related Bachelor's degree or an advanced degree with 9+ years of progressively responsible project management experience, including 5 years in a supervisory/managerial role. Must be an effective planner, communicator, and team builder capable of optimizing the product development cycle. Job Code: 2740

### SR. SCIENTIST/ASSOCIATE DIRECTOR - DEVELOPMENT Biological & Immunological Assays

Develop biological and immunological assays to support therapeutic product development programs. This will include generating SOP/validation reports, presenting results and supervising staff. Requires a PhD in a related field with 8 years' experience and proven skill in developing biological and immunological assays, including ELISA, and prior supervisory/management experience. Knowledge of GLP/GMP required. Familiarity with assay automation preferred. Job Code: 2650

### RESEARCH ASSOCIATE II DNA Sequencing/Synthesis

This pivotal role performs DNA sequencing, data analysis and annotation, and documentation functions. Requires BA degree or equivalent and 2 years' relevant experience, including familiarity with all aspects of DNA sequencing using ABI instruments and computers to analyze/track data. Accurate documentation skills a must. Job Code: 2715

We welcome those with the dedication, spirit and flexibility needed to rise to the ambitious challenge of our mission. To learn more, send your resume, referencing Job Code corresponding with the position of your interest, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer. Visit our Web site at: [www.chiron.com](http://www.chiron.com).

# CHIRON

## The Search For Cures Begins With A Search For The Best.

At Pfizer, we entrust the enormous task of discovering treatments and cures for major diseases to some of the world's most gifted scientific talents. We challenge our scientists to practice leading-edge science in our collaborative, multi-disciplinary scientific community. Our Fortune 100 company maintains a commitment to R&D that's unrivaled in our industry, as we've invested a total of \$9.4 billion since 1990 and expect a 1997 R&D investment of approximately \$2 billion. The only other investment that comes close, is the one we make in our people.

Here, we realize that to attract the best, we must offer the best. That's why we provide a collegial environment that lets you create new professional opportunities, advance your education and balance your work and personal life, all while making the fullest contribution possible to the drug discovery process at Pfizer. If you've been searching for the chance to shape the future of the pharmaceutical industry, join us at Pfizer.



*We're part of the cure.*

### Postdoctoral Fellowship Statistical Molecular Biology

Your experience in molecular biology and interest in mathematics could qualify you for this unique opportunity to apply statistical methods to molecular biology problems. You will spend 18 months with Dr. Francoise Seiller-Moiseiwitsch at the University of North Carolina at Chapel Hill, developing expertise in the field of statistical molecular biology. Following this didactic work, you will work on molecular biology problems in the Statistical Research Group at Pfizer Central Research in Groton, CT for an additional 18 months. An M.D. or Ph.D. in molecular biology, or equivalent field, and laboratory experience in molecular biology are required. Applicant must have the full sequence of calculus and linear algebra that are prerequisites for mathematical statistics and fluency in one or more programming languages.  
**Job Code: 2224**

### Ph.D./MS Bioinformatics

As part of our Genetic Technologies group, the selected candidates will develop and apply computational sequence analysis methods for database searching, protein structure/function prediction and pattern discrimination from complex data. Experience in molecular biology research, applied statistical analysis, WWW development and RDBMS design is required. Excellent communication skills and the ability to work in a dynamic team environment are essential. **Job Code: 2231**

### MS/BS Scientists New Lead Discovery

We are seeking self-directed scientists to be responsible for a significant part of the early in vitro discovery of new chemical leads. Duties include optimizing enzyme and binding assays, adapting them to microtiter format, executing and following up high-throughput screens and verifying and determining the selectivity of leads in dose-response assays. An MS/BS in Biology or a related discipline and experience with mammalian cell culture, automated instrumentation, radioisotopes and computerized data handling are required. Additionally, experience in protein purification and molecular biology, and knowledge of chemistry are desirable. Given the nature of this position, good communication and recordkeeping skills are essential. **Job Code: 2225**

In addition to providing competitive salaries, we offer an excellent compensation package, comprehensive flexible benefits and generous relocation support. For immediate consideration, please forward your resume, a description of relevant research, interest and experiences, publication record, undergraduate and graduate transcripts and 3 letters of recommendation to: **Employee Resources, Pfizer Inc, Central Research Division, Job Code # \_\_\_\_\_, Eastern Point Road, Groton, CT 06340.** For more information on career opportunities available at Pfizer, please visit our Web site: <http://www.pfizer.com>. We are an equal opportunity employer dedicated to diversity M/F/D/V.

### Postdoctoral Research Associate Position

Postdoctoral position available to participate in studies directed toward the identification and characterization of genes involved in primary immunodeficiencies, particularly genes controlling B cell development. The applicant should have a PhD or MD/PhD and experience in molecular biology and/or tissue culture. Please send curriculum vitae, statement of research interests, and three letters of reference to: **Dr. M. E. Conley, Department of Immunology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. Equal Opportunity/Affirmative Action Employer.**

**EBI<sup>®</sup> Medical  
Systems**

*Enhancing Bone Healing  
through Applied Science*

### Research Scientist

EBI, a leader in the field of electromagnetic and direct current bone growth stimulators, seeks a highly motivated research scientist to join a team involved in new product development. The applicant should have a Ph.D. in cell biology, physiology, biomedical engineering or a related field, preferably with expertise in orthopedic research. An applicant with an M.S. degree and several years experience in a medical device related field will also be considered.

The successful applicant will help in the design and execution of cellular and animal experiments leading to new clinical applications of biophysical stimuli for soft tissue, cartilage, and bone repair. They will play a major role in all aspects of product development including basic research, design and implementation of clinical trials, data analysis, and extensive interaction with orthopedic surgeons.

EBI offers competitive compensation including a substantial corporate benefits program. For confidential consideration please send a recent résumé to **Human Resources, Electro-Biology, Inc., 6 Upper Pond Rd., Parsippany, NJ 07054, or FAX to (201) 402-1396.**

# BIG CHALLENGES. GREAT SCIENCE.

Agouron Pharmaceuticals, Inc., a recognized leader in the field of rational drug design in La Jolla, CA has several opportunities with its research and development teams. Building upon the success of our first product, an HIV protease inhibitor launched in March, Agouron Pharmaceuticals, Inc. continues in the forefront of research and development of therapeutic products in the fields of oncology, virology, inflammation, ophthalmology and other serious diseases. Join us in the challenge of great science in one of the following multidisciplinary positions:

## MOLECULAR BIOLOGISTS

We have an immediate opportunity for a molecular biologist to initiate new projects in support of high-throughput screening and crystallography. Successful candidates should be experienced in cDNA cloning, in vitro mutagenesis, PCR, recombinant protein expression with an emphasis on Baculovirus/insect cell system. A PhD and 2-3 years postdoctoral or industrial experience are required. Code: 105/CCK

We are currently seeking a molecular biologist/cell biologist to be responsible for large scale Baculovirus/insect cell and mammalian cell culture systems in support of recombinant protein production. Expertise in optimizing cell culture to produce recombinant protein using 20-L or larger bioreactors is required. Applicants should have a PhD in molecular biology or cell biology with 2-3 years' post-doctoral or industrial experience. Code: 105/CCK2

In addition, we have an opening for an individual with a background in molecular biology and cell culture. A BS/MS in molecular biology or biology is preferred with at least 1-2 years laboratory experience in cDNA cloning, PCR, and in vitro mutagenesis is essential. Code: 105/CCK3

## BIOCHEMISTS, HIGH-THROUGHPUT SCREENING

We are currently seeking an experienced PhD biochemist to design and develop a variety of high-throughput assays. The successful candidates will have experience with innovative screen development and adapting novel techniques to HTS, strong expertise in enzymology, data management, and direct knowledge of robotics. Requirements include several years of postdoctoral and industry experience, willingness to work on several projects simultaneously and excellent communication skills. Code 135/ZH1

We have an additional position for a MS/BS biochemist to support our high-throughput screening lab. A degree in biochemistry or related field is preferred. Experience with assay development, data management and robotics expected. Code 135/ZH2

## CELL BIOLOGIST, POSTDOCTORAL POSITIONS

We are seeking creative individuals who can make significant contributions to identification and validation of new drug targets in the areas of oncology and inflammation. Postdoctoral positions are available to study processes related to induction of the transcription factor NF-KB, their involvement in protection from apoptotic cell death or inflammatory responses. A strong basic research background and experience in advanced techniques of cell cycle regulation and apoptosis would be major assets. Possibility exists for regular full-time position upon completion of post-doctoral training. Code: 102/ZHPD

## VIROLOGISTS

We are seeking experienced PhD, MS and BS level virologists to plan and implement research aimed at the discovery, evaluation and development of novel therapeutic antiviral agents. Candidates should have experience in infectious virus cell-based assays, molecular biology, biochemistry, and should be able to work effectively with individuals of varied backgrounds and disciplines in a highly motivated research team setting. Prior experience with HIV, herpesvirus, and hepatitis C infection systems would be advantageous. Code: 125/VR

## RESEARCH SCIENTIST, PHARMACOKINETICS & DRUG METABOLISM

As part of an interdisciplinary team you will provide pharmacokinetic expertise (in-vitro, in-situ and in-vivo) to help select compounds and formulations in discovery phase. Responsibilities will include early assessment of absorption using in-vitro transport studies, intestinal permeability studies and in-vivo pharmacokinetic and oral bioavailability studies. A key responsibility will be interpreting and communicating results to the project teams. Qualifications include a PhD in Pharmaceutical Sciences along with a background in pharmacokinetics and at least 2 years of industrial experience in the design, conduct and interpretation of in-vitro, in-situ and in-vivo pharmacokinetic experiments. The candidate must have a proven ability to work in a team environment, excellent communication skills and the ability to write reports for regulatory submissions. Code 420/BS

## ASSOCIATE SCIENTIST, CRYSTALLOGRAPHY

We have an immediate opening for a BS/MS level scientist to join our protein crystallography group. Experience with proteins and protein crystallization would be a plus. The successful candidate will work as part of an interdisciplinary drug discovery team and will be responsible for crystallization of target proteins and preparation of crystals for x-ray structural analysis. Code: 110/DM

We offer a competitive salary and benefits package. For immediate consideration, please forward your resume and salary history to: Human Resources Department, Code (see above), Agouron Pharmaceuticals, Inc., 3301 N. Torrey Pines Court, La Jolla, CA 92037; e-mail: [jobs@agouron.com](mailto:jobs@agouron.com). For more information visit our web site: <http://www.agouron.com>. EOE.



**Agouron**  
Pharmaceuticals, Inc.

# IN IT FOR LIFE.

Improving life by advancing science.

Genetics Institute has been a leader in the biotechnology industry in discovering, commercializing and collaborating with academia and the pharmaceutical industry on novel protein therapeutics. To date, nine of these have advanced to human clinical evaluation or commercialization, and the outlook for continued innovation is unprecedented.

On December 31st, 1996, Genetics Institute became a wholly-owned subsidiary of American Home Products (NYSE:AHP). American Home Products is one of the world's largest research-based pharmaceutical and healthcare products companies, and is a leading developer, manufacturer and marketer of prescription drugs and over-the counter medication.

Our success as one of the largest biotechnology employers in Massachusetts has been fueled by our collaborative work environment focused on the future. This culture attracts and inspires some of the brightest minds whose ideas sustain us as a leader in the industry.

Join us in making even more advancements that improve quality of life for all of us:

## ANDOVER, MA MAMMALIAN AND MICROBIAL CELL SCIENCES LAB

### Molecular Biology/Virology

An exceptional opportunity ... an outstanding environment for a scientist with excellent organizational, communications, and computer skills who enjoys benchwork and performs well in a team-oriented, multi-disciplinary setting. You will develop and implement PCR-based assays for the detection of potential viral contaminants of production cell cultures and participate in a comprehensive program to ensure the viral safety of recombinant therapeutic proteins produced in mammalian cells. To qualify, you must have a Ph.D. and hands-on experience in molecular biology, including extensive involvement with PCR. Formal training and experience in virology is preferred. (Job Code: SC81-PL-TC)

To be considered for current or future job openings, please send resumes, suitable for scanning (see below), indicating job code to: Human Resources, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Fax: (617) 876-8847.

Scannable resumes should be forwarded on plain white bond paper, using standard types and fonts, and no bold or italic print. When faxing resumes, please also mail an original copy.

Genetics Institute offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), pension plan, relocation assistance, tuition assistance, and an on-site exercise facility.

Genetics Institute is an equal opportunity, affirmative action employer, M/F/D/V, dedicated to building strength through diversity.

For additional opportunities, visit our web site at:

[www.genetics.com](http://www.genetics.com)

GENETICS  INSTITUTE®

*Harnessing the Body's Power to Heal™*

## The feel of a **start-up.** The force of a **leader.**

Genome Therapeutics Corp. is looking to build upon our current functional genomics expertise by formally establishing a multi-disciplinary team charged with evaluating and developing novel therapeutic targets to further our efforts in the fields of genomics. We are looking for the following key professionals to contribute to this venture.

### OPPORTUNITIES IN FUNCTIONAL GENOMICS

- RESEARCH SCIENTISTS
- POSTDOCTORAL SCIENTISTS
- SENIOR SCIENTISTS

Several positions are available immediately to expand the existing genomics program at Genome Therapeutics toward the systematic analysis of gene function and signal transduction pathways as a prerequisite for rational drug target identification and drug development strategies. Qualified candidates will have a strong background in molecular biology, cellular biology and/or protein biochemistry with a Bachelor's or Master's degree in a related discipline and 2-5 years' experience. Senior Scientist candidates should have extensive experience in protein biochemistry and/or drug discovery research.

You'll find our salaries to be highly competitive and our benefits comprehensive. For immediate consideration, please send your resume to: **Human Resources, Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA 02154; FAX: (617) 893-9535; Email: [michelle.bell@genomecorp.com](mailto:michelle.bell@genomecorp.com).**

**Additional opportunities available in Human Genetics, Pathogen Genetics, and Bioinformatics.**

Discover even more about us at:  
[WWW.GENOMECORP.COM](http://WWW.GENOMECORP.COM)



We are an equal opportunity employer discovering the strength diversity brings to the workplace M/F/D/V.



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

ALSAC • Danny Thomas, Founder

### Postdoctoral position in molecular mechanisms of carcinogenesis in ataxia telangiectasia

A postdoctoral position is available to investigate the role of ATM in lymphomagenesis and signal transduction. ATM (the product of the gene mutated in the human syndrome ataxia telangiectasia) is a critical component required for the normal cellular response to a variety of agents that compromise genomic integrity. Mice deficient for ATM are characterized by a pronounced propensity to develop lymphomas. Using these mice we will investigate the underlying processes that contribute to lymphoma formation in the absence of ATM.

This postdoctoral position would be ideally suited to someone with a strong molecular biology background who has recently obtained a Ph.D. and/or M.D.

The research environment at St. Jude Children's Research Hospital is outstanding and offers state of the art training and facilities for all aspects of molecular biology. To be considered for this position please send a C.V. and three letters of reference to **Peter McKinnon, Ph.D., Department of Genetics, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. E-mail: [peter.mckinnon@stjude.org](mailto:peter.mckinnon@stjude.org)**

AA/EOE



### THREE ASSISTANT PROFESSOR POSITIONS

School of Natural Resources  
The Ohio State University

The School of Natural Resources at The Ohio State University invites applications or nominations for three full-time, tenure-track faculty positions.

**Wildlife Management:** Applicant must possess a Ph.D. in Wildlife Management or related discipline and have research expertise in wetland birds and/or mammals. The successful candidate will teach two or more courses annually, one of which will be wildlife management techniques. Field experience with management agencies and demonstrated teaching expertise is desired.

**Forest Ecosystem Analysis & Management:** Applicant must have an earned Ph.D. and will develop an academic program in an area of quantitative methods suitable for forest ecosystem management, modeling, or biometrics, with particular interest in the measurement, assessment, and modeling of forest ecosystem components and resources. At least one degree in forest resource management is desired.

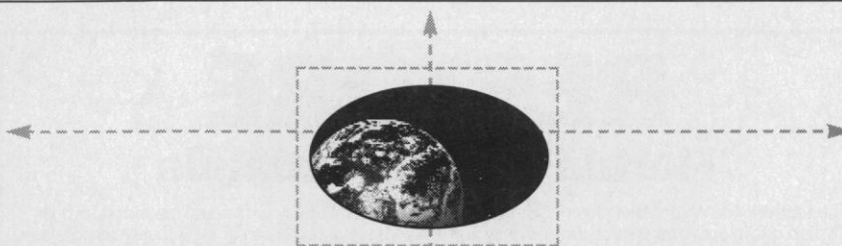
**Applied Forest Biology & Genetics:** Applicant must have a Ph.D. in plant genetics with expertise in forest tree genetics, selection, and breeding. The successful candidate will initiate a research program in applied population and molecular genetics. At least one degree in forest resource management is preferred.

**All Positions:** Are 9–11-month, tenure-track, full-time positions involving teaching and advising both undergraduate and graduate students, the development of a productive research program leading to extramural funding and publishing in refereed journals.

Salary is commensurate with qualifications and experience. A comprehensive employee benefits package is provided. A start-up financial package will be available. Applications for each position will be accepted until September 1, 1997. Applicants should submit a letter of application; résumé; university transcripts; and a list of five professional references, including complete addresses, phone numbers, fax numbers, and e-mail addresses. The letter of application should discuss the applicant's interests, expertise, career goals, and how education and experience fulfill the desired qualifications.

Send application materials to: **Search Committee Chair, School of Natural Resources, 210 Kottman Hall, 2021 Coffey Road, Columbus, OH 43210-1085. Phone: (614) 292-2265. FAX: (614) 292-7432.**

*The Ohio State University is an Equal Opportunity, Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*



## We're redefining the way the world looks at life sciences. We're the new life sciences company at Monsanto.

And even more focused on the future. That's why our entire organization, from agricultural biotechnology to pharmaceuticals to food ingredients, is dedicated to life sciences. Now, we can answer the questions, needs and demands of our ever-changing planet. After all, the world's resources are finite, but our vision for the future is limitless.

### Bioinformatics/Information Scientists

We seek several bioinformatics scientists who will be responsible for the implementation and support of computer-based bioinformatics tools as they are applied to applications in the agricultural and pharmaceutical business sectors. These positions require motivated individuals who in addition to supporting the bioinformatics tools are also capable of maintaining an individual "cutting edge of science" research program. World class research facilities are available for work that has synergy with business goals.

We require scientists with advanced degrees in an appropriate scientific area with thorough knowledge of molecular cell biology and computational skills including GCG, UNIX, Perl Scripting, Web Development (HTML, Java), SQL, and C++. Candidates must possess solid interpersonal and written communication skills. **Job Code: INFO1**

### Bioinformatics Scientists

We seek highly motivated and experienced bioinformatics scientists to work closely with genome scientists and drug discovery project teams in our research center. This will involve providing bioinformatic analysis to address therapeutic challenges in arthritis, cardiovascular disease and oncology. You will also provide expert bioinformatic analysis of gene sequence information, array-based gene expression studies, and protein structure information while analyzing large complex data sets using Blast, Smith-Waterman and other GCG tools. This will include writing small custom programs in Perl, C++, Java or Oracle as needed. Candidates will also be expected to develop independent research projects within Searle's therapeutic focus.

We require Ph.D. level scientists with two years postdoctoral experience or the equivalent with expertise in sequence and protein structure similarity searching, data mining and presentation, biological interpretation of sequence information and scientific programming in a UNIX operating environment. Good communication and writing skills are essential. **Job Code: BIOS2**

### Postdoctoral Fellowships in Bioinformatics

We seek several postdoctoral fellows in bioinformatics. Fellows will interact with other bioinformatic scientists as well as genome and drug discovery project teams. As part of the program, fellows will be challenged to develop a broad background in sequence analysis, programming and database administration and are encouraged to publish and present their results at meetings. Postdoctoral fellows may pursue creative new ideas in sequence recognition software, data visualization tools and data presentation techniques or pursue research opportunities which use bioinformatics and database mining to better understand the underlying mechanisms of human disease.

We require a Ph.D. in Computational Biology, Molecular Biology or Genetics. Familiarity with UNIX systems and a working knowledge of Blast, GCG and other bioinformatics programs is essential and the ability to program in Perl, C++ or Java is a plus. **Job Code: PBIOS**

We offer a competitive compensation and benefits package. For consideration, please send you resume and cover letter to: **The Monsanto Company, Job Code: (please select), 700 Chesterfield Parkway North, Mail Zone: BB2B, St. Louis, MO 63198. Visit our website at [www.monsanto.com](http://www.monsanto.com). EEO/AA Employer M/F/D/V.**

# Monsanto

# RESTORE

## Florida's Vital Wetlands

The South Florida Water Management District is tasked with regulating the surface and ground water quantity and quality for flood control, water supply and environmental protection in a 16-county service area from Orlando to Key West. Challenging employment opportunities are available:


### SENIOR ENVIRONMENTAL SCIENTIST

**Resource Assessment Division  
Water Resources Evaluation Department**

Incumbent will independently design, plan, execute, interpret, document and communicate the results of mercury monitoring, research, modeling, impact and risk assessment projects in South Florida to support Everglades restoration decision-making. Extensive experience in applying the concepts, principles and practices of environmental chemistry and toxicology to environmental problem solving in a regulatory environment must be evident. A working knowledge of calculus, statistics, ecology and mathematical modeling of aquatic transport-fate, aquatic and mammalian bioaccumulation, pharmacokinetics and mechanistic toxicology is required. Position also requires proficiency in computer programming and the use of software packages for the formatting, manipulation, statistical analysis, modeling, display and presentation of complex data sets. The use and maintenance of field and laboratory equipment for environmental monitoring, and knowledge of associated quality assurance requirements are a must. Experience in planning and managing complex projects is a plus and excellent communications and teambuilding skills are beneficial. The ability to lift at least 55 lbs. and tolerate extremes of heat, humidity and hazardous conditions involving exposure to large or poisonous reptiles and biting or stinging insects in the South Florida environment are prerequisites. Ph.D. or MS in environmental chemistry, toxicology or a related science discipline with a minimum of 4 years and preferably at least 8 years of experience in water quality monitoring, aquatic systems problem solving and modeling are required.

SFWMD offers excellent opportunities for continuing professional development. All inquiries should include your social security and ad reference numbers. Direct all applications to:

**SFWMD**  
Human Resources, Ref#SLS7120  
3301 Gun Club Road, West Palm Beach, FL 33406  
JOB HOTLINE: 1-800-547-2694 or 1-561-686-8800, x6364  
<http://www.sfwmd.gov>



**SFWMD**  
EOE, M/F/D/V

## TRAINING

### Cell Culture Workshop

October 14-17, 1997

### Academic Scholarships

Revco Scientific is sponsoring several academic scholarships for faculty, postdoctorates, and graduate students. Each scholarship covers tuition and up to \$1000 in travel expenses.

Workshop and scholarship information can be obtained at [www.btc-bti.com](http://www.btc-bti.com), by e-mail via [biotecinfo@aol.com](mailto:biotecinfo@aol.com), or by calling 800/382-2112.

Applicants need to submit 1) a current CV and 2) a brief letter explaining how cell culture will have a positive impact on their research. Applications are due by September 30, 1997. The CV and letter should be Faxed to 908-575-1660 or mailed to **Biotechnology Training Institute, Cell Culture Scholarships, 672 Route 202-206 North, Bridgewater, NJ 08807 USA.**

**Biotechnology Training Institute**  
800/382-2112 [www.btc-bti.com](http://www.btc-bti.com)

### 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, focusing on corticotropin-releasing hormone and its receptors.
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, mechanisms of neuroprotection and plasticity, aging.
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, Irvine, CA 92697-1275**  
*University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

### BIOLOGICAL PROCESS IMPROVEMENT SCIENTIST

Stratagene, a leader in the development and manufacture of molecular biology research products in the San Diego area, is seeking a talented scientist responsible for improving biological processes to enhance product transfer from R&D through Production.

Specifically, you will troubleshoot and improve current production protocols to increase yields, reproducibility and product reliability. Requirements include a PhD in Molecular Biology, Biochemistry or Chemistry, 1 year of postdoc experience or 8 years of relevant laboratory experience, and excellent laboratory and writing skills. Expertise in libraries, hosts and vectors preferred. Product vision is essential to independently select and strategize projects for successful product development.

Stratagene offers a rewarding work environment in beautiful La Jolla, a competitive salary and excellent benefits. Send resume to: Stratagene, 11011 N. Torrey Pines Rd., La Jolla, CA 92037, Attn: Professional Staffing/Req. 21055-97A. Drug and alcohol testing required. AA/EOE.



**STRATAGENE®**

## POSTDOCTORAL SCIENTIST, PHARMACOLOGY

SmithKline Beecham, a world-wide leader in pharmaceutical research and development, is currently seeking a Postdoctoral Scientist, Pharmacology to join our team.

The selected candidate will have a background in molecular and cell biology for our Pharmacological Sciences division. The scientist will investigate organ remodeling with particular emphasis on renal and prostate diseases. Experience in evaluating the mechanisms involved in apoptosis would be an advantage. The ideal candidate will be intent on gaining recognition in the scientific community through publication of scientific results and participation in national meetings. A PhD in Molecular Biology, Biochemistry, Pharmacology or related discipline, up to 3 years' postdoctoral experience, and knowledge of standard molecular biology techniques are required. Experience with standard techniques in cell biology, biochemistry, *in situ* hybridization, and immunohistochemistry are preferred.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits package as well as a stimulating work environment. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H7-0424, P.O. Box 2645, Bala Cynwyd, PA 19004. **Indicating Job Code is essential.** For more information on SmithKline Beecham, visit our Web site at [www.sb.com/careers](http://www.sb.com/careers). We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits.

## Genentech, Inc.

*incredible people*  
**extraordinary science**

*What does your work mean to you? At Genentech, our work represents a commitment to progress, a quest for discovery. What matters to us? Something incredibly simple - bettering human health. Whether experimenting with a next-generation medicine, or producing one of our five marketed products in manufacturing, you'll play a critical part in making our vision a reality. Each day, we make it more real. If you share that passion for life, imagine what we could do with your help. It's incredible, and extraordinary.*

### **Scientist - Cell Biologist/Biochemist**

We are currently seeking a PhD/MD level Cell Biologist/Biochemist to establish and operate the Fluorescence Cytometry Core Lab and support Genentech's drug development projects in our Bioanalytical Methods Development Group. In this role, you will be responsible for developing methods to support pre-clinical and clinical studies for recombinant protein drug development. You will also quantify recombinant proteins and enable the characterization of their activity *in vivo* utilizing cellular, biochemical, immunochemical and molecular methods. Proven expertise in flow cytometry and fluorescence microscopy is required.

In addition, you will ensure that state-of-the-art technology and reagents are used for the development of suitable flow cytometry and fluorescence microscopy methods. Experience with fluorophores and knowledge of labeling procedures and cell morphology are essential. Familiarity with immunoassays applicable to the measurement of pharmacokinetic and pharmacodynamic properties of biopharmaceuticals is a plus. This role requires a great deal of collaboration with your team scientists and with colleagues in other disciplines, and requires excellent interpersonal and communication skills. Job Code SCI0514

### **Scientist/Senior Scientist - Immunology**

Our Department of Immunology has an exciting opportunity for a highly motivated, versatile Scientist with a strong interest in the discovery of potential therapeutic molecules for immune-mediated disorders and the desire to develop an interactive research program that complements ongoing drug discovery efforts.

Qualified applicants will have a PhD, MD or equivalent, post-doctoral training (preferably in the research area of Cellular/Molecular Immunology or Biochemistry of the immune system) and 5+ years of research experience in basic immunological sciences with an outstanding record of scientific productivity as demonstrated by publications and accomplishments. Job Code SCI0640

### **Scientist/Group Leader - Pharmaceutical R&D**

Our cutting edge Pharmaceutical R&D Department, the first to commercialize protein therapeutics in specialized delivery systems, is seeking a Scientist/Group Leader. The successful candidate will manage the development of new state-of-the-art dosage forms/delivery systems for protein drugs from proof of concept to successful manufacturing implementation and regulatory filing. You will also supervise laboratory studies, including the physical and chemical characterization of protein with regard to compatibility with pharmaceutical excipients and delivery systems, as well as the assessment of dosage form stability.

To qualify, you must have a PhD in Physical Chemistry, Biochemistry, Pharmaceutical Chemistry or equivalent and 6+ years of industrial experience in protein formulation development. Strong communication skills and the ability to collaborate in a multidisciplinary group setting are required. An ability to evaluate and implement technologies along with a track record of visionary leadership is highly desirable. Job Code SCI0808

Join us and enjoy our exciting success and progressive benefits package that includes fully paid medical/dental/vision coverage, 3 weeks paid vacation, a paid sabbatical program, stock purchase opportunities for full time employees, and free health club membership. For consideration, send your resume, indicating Job Code, to Genentech, Inc., Human Resources, P.O. Box 1950, South San Francisco, CA 94083-1950. Please avoid bold, underline or italic typefaces. We cannot accept faxed resumes. You may also e-mail your resume, indicating Job Code to [jobs@gene.com](mailto:jobs@gene.com) (ASCII files only with a maximum line width of 76 characters). Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

**www.gene.com**

Neurogen Corporation is a leading neuropharmaceutical company engaged in the design and development of drugs promising improved treatment for a broad variety of neuropsychiatric disorders.

## SENIOR SCIENTIST - PHARMACOLOGIST/BIOCHEMIST

### HIGH-THROUGHPUT SCREENING

We are seeking a scientist for our High-Throughput Screening (HTS) effort. Responsibilities of the position include development of radioligand binding assays and cell-based assays for HTS, optimization of ongoing HTS assays including application of statistical Experimental Design methods, and coordination with Biochemistry, Molecular Biology, Cell Culture, and Pharmacology groups.

The successful candidate will have a Ph.D. in pharmacology or biochemistry with 2-5 years of post-graduate experience. This person should have expertise in radioligand binding and a working knowledge of the pharmacology of major classes of receptors including ion channel, G-protein coupled and cytokine. Experience in quantitative pharmacology and the application of rigorous statistical methods for Quality Control of ongoing assays would be a plus as would be a background in receptor stimulated second messenger systems to help design functional assays. Good collaborative and mentoring skills are essential.

## RESEARCH ASSOCIATE

### HIGH-THROUGHPUT SCREENING

Qualified candidates must possess a BS or MS in biological sciences with at least 2 years of academic or industrial postgraduate experience. Experience in recombinant DNA techniques including molecular cloning, transfections and PCR is essential.

Neurogen is located in Branford, CT close to New Haven. We offer a comprehensive compensation program consisting of competitive salary, equity participation, 401(k) plan, health and medical programs. Scientists interested in either position should send a resume and a cover letter stating career goals and noting "HTS" to: **Human Resources, Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT 06405.**

We regret we are unable to acknowledge each resume; only those candidates selected for an interview will be contacted. EOE.

Neurogen Corporation



Roche

## Scientists Senior Scientists Principal Scientists

Roche Molecular Systems, an Alameda, CA company involved in human diagnostics and research products utilizing the polymerase chain reaction technology, has openings for Scientists, Sr. Scientists and Principal Scientists in our Research & Product Development Departments.

For Scientists, a BA/BS & min of 2 yrs additional exp req. For Sr. Scientists, a BA/BS or MS or equiv & min 5 yrs addtl exp req. For Pr. Scientist, Ph.D. pref & min 5 yrs addtl exp is req. All degrees should be in one or more of the biological sciences. All positions req exp w/PCR. Exp w/MS Office pref. Check our jobs phone line at (510) 865-5400.

### Roche Molecular Systems

Attn: HR Dept.

1145 Atlantic Avenue  
Alameda, CA 94501-1145  
EEO/M/F/D/V



## MEETINGS

### TIGR Science Education Foundation, Inc. GENOMIC SCIENCE SERIES

## FIRST ANNUAL CONFERENCE ON COMPUTATIONAL GENOMICS

A new annual conference exploring how computational tools lead to discovery in biology

**November 1-4, 1997  
Hyatt Dulles, Herndon, VA**

#### Conference Cochairs:

**Anthony R. Kerlavage, Ph.D., TIGR**

**David B. Searls, Ph.D., SmithKline Beecham Pharmaceuticals**

● plenary talks ● posters ● electronic posters ● exhibits

**Abstract Deadline Extended to August 15**

For additional information about this and other conferences sponsored by the TIGR Science Education Foundation, Inc., please visit our WWW site at

**<http://www.tigr.org/tsef/tsef.html>**

Conference Office

9712 Medical Center Drive, Rockville, MD 20850-3319

● 301-838-3509 or 3515 ● 301-838-0229 FAX ●  
bioifx@tigr.org

## ACADEMIC CONNECTIONS

**Highlight your  
college or university's  
graduate programs online with  
Academic Connections...**

- Receive a direct link to your university's website.
- All graduate school program listings remain posted online for one year – until August 1998.
- Free listing for full-page advertisers in SCIENCE's 29 August BS & MS Careers Advertising Supplement.

**Academic Connections:  
[www.sciencemag.org](http://www.sciencemag.org).**

Click on SCIENCE Professional Network,  
then click on Academic Connections.

**SCIENCE**  
[www.sciencemag.org](http://www.sciencemag.org)

**For more information  
contact Jill Steinberg**

Phone: 202-326-6543

Fax: 202-289-6742

science\_displayads@aaas.org

## MEETINGS

### UCSF-MDI Meeting "Computational Methods in Combinatorial Chemistry"

UNIVERSITY OF CALIFORNIA SAN FRANCISCO  
Laurel Heights Conference Center  
San Francisco, California  
October 9, 1997

The MOLECULAR DESIGN INSTITUTE of the University of California San Francisco announces a one day meeting to address "Computational Methods in Combinatorial Chemistry" organized by Professor I.D. Kuntz. Computational experts and organic chemistry experts who evaluate library designs in synthesizing libraries are invited to attend. The meeting is co-hosted by the UCSF-CORPORATE SCHOLARS PROGRAM\*.

#### Keynote Speaker

David Floyd, VP of Discovery Chemistry,  
Bristol-Myers Squibb  
"Automated Synthesis in Drug Discovery"

#### Speakers and Panelists

Jeff Blaney, Chiron Corporation  
Jon Ellman, University of California Berkeley  
Simon Kearsley, Merck Research Laboratories  
Atsuo Kuki, Alanex Corporation  
I.D. Kuntz, University of California San Francisco  
John Mount, Arris Pharmaceuticals  
Mark Murcko, Vertex Pharmaceuticals  
Diana Roe, Sandia National Laboratories  
Ray Salemme, 3D Pharmaceuticals  
Yax Sun, Bristol-Myers Squibb  
Peter Willett, University of Sheffield

#### Registration

Registration is US\$500 (corporate) or US\$250 (academic) including food.

To register contact Dr. Judith C. Hempel  
tel: 415-502-8396; fax: 415-502-8397;  
email: [jhempel@cgl.ucsf.edu](mailto:jhempel@cgl.ucsf.edu) or visit the  
UCSF-MDI web site at <http://mdi.ucsf.edu>.

\*Conference fees are waived for CORPORATE SCHOLARS PROGRAM members and affiliates.

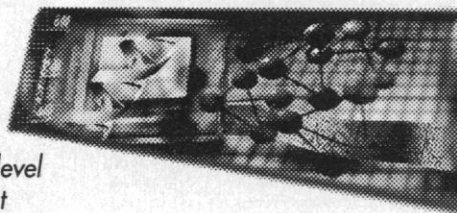
#### Upcoming Events

The next UCSF meeting in this series is "Molecular Recognition: Docking and Scoring" (February '98) organized by Professor Peter Kollman. Future meeting topics include proteases, parasitology, bioinformatics, and gene delivery.



UNIVERSITY OF CALIFORNIA SAN FRANCISCO  
MOLECULAR DESIGN INSTITUTE  
Box 0446, Room U-64  
San Francisco, CA 94143

<http://mdi.ucsf.edu>



*Working on the molecular level  
to conquer, treat, or prevent  
debilitating diseases.*

## IMMUNOLOGY RESEARCH

### AT SCHERING-PLOUGH

At the Schering-Plough Research Institute in Kenilworth, NJ, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of exploratory pharmaceutical discovery, become part of advanced multidisciplinary research teams focused on immunological research.

#### ASSISTANT SCIENTIST Molecular Immunology

As a member of our Immunology Research Department, you will join a group of scientists involved in molecular immunology projects. To qualify, you will need a BS degree in Molecular Biology, Cell Biology or Biochemistry and 2-4 years of experience, or an MS degree and 0-2 years of experience. Research experience in a range of molecular and cellular biology techniques including tissue culture, cloning and protein expression is required. To be considered for this position, please reference Dept. DD97-63-BG.

#### ASSOCIATE SCIENTIST Transgenic Model Development

The scientist we seek will be part of a team involved in the development of transgenic and knock-out models *in vivo*. To qualify, you will need a BS degree in Molecular Biology and 4-7 years of experience, or an MS degree and 2-4 years of experience. Background must include embryo collection, pronuclear and/or blastocyst injection, and expertise in a variety of molecular biology techniques such as PCR, Northern blot, Southern blot and cloning. Experience in ES-cell culture, derivation of ES cells and aggregation techniques is highly desirable. To be considered for this position, please reference Dept. DD71-05.-BG.

#### SCIENTIST Histotechnology

We seek a talented scientist to be part of a team responsible for histotechnology analysis of transgenic and knock-out disease models. To qualify, you will need a BS degree in Biology or a related field and at least 7 years of experience, or an MS degree and at least 5 years of experience. Background must include extensive, hands-on research in histology involving microtomy of either paraffin-embedded or cryo-protected tissues, immunohistochemistry and *in situ* hybridization. Additional experience in molecular biology, pathology, genetics or immunology is highly preferred. To be considered for this position, please reference Dept. DD71-20-BG.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 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

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE/FULL PROFESSORS THE MOUNT SINAI MEDICAL CENTER IMMUNOBIOLOGY CENTER

A newly formed immunobiology center has initiated a search for outstanding Assistant/Associate/Full Professor-level investigators. The center is interested in all areas of immunology but would especially encourage applications from investigators with a focus on T-cell biology, antigen presentation, cytokines, receptors/signal transduction. Individuals selected are expected to develop (or already possess) and maintain extramurally funded programs and to have already demonstrated independence in their research area.

The center is located in a new research facility adjacent to the Medical Center and this recruitment effort coincides with a general expansion of research faculty in Gene Therapy, Cancer, Genetics, Structural Biology and Molecular Medicine. Interested applicants should send their curriculum vitae, along with summary of research interests and future plans to: **Lloyd Mayer, M.D., Director Immunobiology Center, The Mount Sinai Medical Center, Box 1630, One Gustave L. Levy Place, New York, NY 10029. E-mail: lmayer@smtplink.mssm.edu. We are an Equal Opportunity Employer fostering diversity in the workplace.**

### ASSOCIATE PROFESSOR OR PROFESSOR—CLINICAL

Accepting applications for a twelve-month non-tenure-track position shared between the Division of Environmental Health Sciences, the Ohio State University, and the City of Columbus Health Department. The candidate must have a doctoral degree and training and experience in environmental health and toxicology. Duties include development of graduate courses in risk estimation associated with exposure to environmental agents and mentoring of graduate students. Services to the City of Columbus Department of Health include risk estimation and communication, hazardous material modeling and waste storage issues, and dealing with issues of water quality. The candidate will serve on the Epidemiology Team of the Assessment and Health Information Cluster of the Columbus Health Department. Send a curriculum vitae and three names of references to: **Gary D. Stoner, Ph.D., 1148B James Cancer Hospital, 300 West 10th Avenue, Columbus, OH 43210-1240. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, and individuals with disabilities are encouraged to apply.**

### COLUMBIA UNIVERSITY

The Department of Psychiatry and the Columbia Genome Center invite applications for a joint tenure-track position at the rank of **ASSISTANT PROFESSOR** or the equivalent **ASSOCIATE RESEARCH SCIENTIST**. The successful applicant is expected to develop an innovative research program in the area of functional genomics. Preference will be given to applicants who develop new technologies and apply these to the analysis of complex traits, particularly behavior. Candidates must have M.D. or Ph.D. It is desirable that the candidate have a strong background and training in molecular biology and expertise in transgenic mouse technology. Applicants should submit a curriculum vitae, a summary of research accomplishments and future research plans, and three letters of reference to: **Dr. T. Conrad Gilliam, Unit 23, 722 West 168th Street, New York, NY 10032. E-mail: tcg1@columbia.edu. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

### ASSISTANT PROFESSOR DANA-FARBER CANCER INSTITUTE

The Department of Pediatrics at Harvard Medical School is inviting applications for a tenure-track position in Neurobiology Research. Applicants should have a Ph.D. or M.D., postdoctoral experience, and a research program that is directly or indirectly related to the biology of brain tumors. Suitable areas of expertise include developmental neurobiology (i.e. murine, *Drosophila*, or other), neuronal cell biology, cytokine or oncogene biology, or signal transduction within the nervous system.

Please send curriculum vitae, description of research interests, and the names of three references to:

**Dr. Alan D'Andrea**  
Chair, Neuro-Oncology Search Committee  
Dana-Farber Cancer Institute  
44 Binney Street  
Boston, MA 02115  
E-mail: a\_dandrea@farber.harvard.edu

## POSITIONS OPEN



### ARIZONA STATE UNIVERSITY

#### ASSISTANT/ASSOCIATE PROFESSOR

We invite applications for two positions at the tenure-track Assistant or tenured Associate Professor level in the Department of Biology, beginning fall 1998.

**EVOLUTIONARY BIOLOGIST:** Candidates must have primary research interest in the processes of evolution of animals, plants, and/or microorganisms.

**ENVIRONMENTAL or EVOLUTIONARY PHYSIOLOGIST:** Research and/or teaching must address fundamental questions relevant to mechanisms of physiological function in natural environments, using animal models or taxonomically broad perspectives which incorporate animals. (Teaching will include human anatomy and physiology and/or animal physiology.)

Successful candidates will be expected to establish an active research program, participate in undergraduate and graduate teaching, and perform professional service. Ph.D. required by August 1998. Applicants must submit curriculum vitae, e-mail address, selected reprints, a statement of research accomplishments and future directions, and a statement of teaching experience, interests, and philosophy, and arrange to have three letters of recommendation sent to: **Evolutionary Biology or Physiology Search Committee, Department of Biology, Arizona State University, Box 871501, Tempe, AZ 85287-1501. FAX: 602-965-2519; e-mail: biology@asu.edu.** Applications from two individuals wishing to share either appointment will be considered. Application deadline is Sept. 29, 1997, with applications reviewed weekly thereafter until the position is filled. *Arizona State University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE/FULL PROFESSORS NEUROBIOLOGIST WITH EXPERIENCE IN CELL BIOLOGY OR GROSS ANATOMY

Applications are invited for two tenure-track positions in the Department of Cell and Neurobiology at the University of Southern California School of Medicine. Both positions require that the successful candidate develop and/or maintain a vigorous, externally funded research program in cell and neurobiology. Candidates for these positions must be qualified to teach either human gross anatomy or cell biology and histology to medical and graduate students. Academic rank is open and dependent on qualifications and previous experience. Candidates at the level of assistant professor must have a Ph.D. or M.D. degree, at least three years postdoctoral training, and prior teaching experience in either gross anatomy or cell biology and histology.

Candidates should send an introductory letter addressing both their teaching experience and their research interests. Applications should include a curriculum vitae, copies of recent publications, and the names, addresses, telephone, and FAX numbers of three references. Preliminary review of applications will begin September 1, 1997; however, applications will be accepted for review through October 1, 1997. Send materials to the attention of: **Search Committee, Dr. Cheryl M. Craft, Chair, Department of Cell and Neurobiology, School of Medicine, University of Southern California, 1333 San Pablo Street, BMT 401, Los Angeles, CA 90033.**

*USC is an Equal Opportunity/Affirmative Action Employer.*

### INDIANA UNIVERSITY SENIOR FACULTY POSITION ORGANIC CHEMISTRY

The Department of Chemistry at Indiana University invites applications for a senior position in organic chemistry at the level of Full Professor. Outstanding, established teacher-scholars are sought among individuals who have achieved international recognition in their field. All areas of organic chemistry will be considered with particular emphasis on natural product synthesis and methodology development. Applicants should submit a curriculum vitae, a list of publications, and a brief discussion of on-going research projects to: **Professor Gary M. Hietje, Chairman, Department of Chemistry, Indiana University, Bloomington, IN 47405. FAX: 812-856-5050; e-mail: chemchair@indiana.edu.** The deadline for receipt of applications is October 31, 1997. *Indiana University is an Equal Opportunity/Affirmative Action Employer and especially encourages applications from women and members of minority groups.*

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR PATHOGENIC BACTERIOLOGY

The Department of Microbiology and Immunology at the East Carolina University School of Medicine invites applications for a tenure-track faculty position at the Assistant Professor or Associate Professor level. An individual utilizing modern molecular approaches in the general area of bacterial pathogenesis related to human health and disease is sought. Major responsibilities will include establishment and direction of an independent research program and participation in teaching of medical and graduate courses. Salary and rank will be commensurate with qualifications. Appointment at the Associate Professor level requires a strong record of continuous research funding including current extramural support and evidence of leadership in teaching and service. The Department has 14 full-time faculty, an active doctoral studies program, and is fully equipped with advanced facilities for bacteriology, molecular biology, genetics, virology, immunology, and animal research. Applicants should provide curriculum vitae, a letter describing research and teaching goals, and names and complete addresses of three references by mail to: **Bacteriology Search Committee, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, North Carolina 27858-4354.**

*East Carolina University is an Equal Opportunity/Affirmative Action University. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.*

### ASSISTANT OR ASSOCIATE PROFESSOR INTEGRATIVE PHYSIOLOGY

Integrative Physiologist with research interests in environmental and/or evolutionary physiology. The position will be shared between the Department of Zoology and the Program in Biology. Preference will be given to individuals whose research interests complement those of the faculty. Qualifications include a Ph.D. and postdoctoral training in a relevant biological science. The successful candidate will be expected to maintain a vigorous, funded research program. Teaching responsibilities will include the systems physiology component of an introductory biology course, selected parts of an advanced undergraduate physiology course, and a graduate course in area of specialization. Appointment is tenure-track and may be made at the Assistant or Associate level; candidates should indicate at which level they wish to be considered. Review of applications will start on October 1, 1997. Send letter of application, three letters of recommendation, and a curriculum vitae to: **Dr. Mary E. Murphy, Chair, Integrative Physiologist Search Committee, Department of Zoology, Washington State University, P.O. Box 644236, Pullman, WA 99164-4236. Washington State University is an Equal Opportunity/Affirmative Action Employer and Employer. Members of protected groups are encouraged to apply.**

### FACULTY POSITION: RHEUMATOLOGY/IMMUNOLOGY

The Rheumatology Section of the Department of Medicine at The University of Chicago seeks applications for appointment as **ASSISTANT PROFESSOR** from physician-scientists using molecular and/or genetic approaches to examine basic mechanisms of relevance to the field of Immunology. The Section is closely interfaced with the Committees on Cancer Biology and Immunology and the Gwen Knapp Center for Lupus and Immunology Research. This investigative community consists of more than 30 immunologists and molecular and cell biologists with expertise in lymphocyte activation and development, tumor immunology, and transplantation. The candidate should have demonstrated significant research accomplishment and outstanding promise and should hold an M.D. or M.D./Ph.D. Please forward a curriculum vitae, bibliography, and statement of research interest to: **Marcus R. Clark, M.D., The University of Chicago, 5841 South Maryland Avenue, MC 0930, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.**

### GRANTS/TECHNICAL WRITER

Mosaic Technologies, Inc., a pioneering biotechnology company, seeks a grants and technical writer for full-time position or as consultant. Experience writing SBIR, ROI grants and scientific papers/articles required. A background in molecular biology preferred. Mosaic offers an above-average salary and benefits package. Please send resume and writing sample to: **Personnel Department, Mosaic Technologies, Inc., 1106 Commonwealth Avenue, Boston, MA 02215.**

**INTERDISCIPLINARY, NATIONAL INSTITUTES OF HEALTH  
NATIONAL CANCER INSTITUTE  
FREDERICK CANCER RESEARCH  
AND DEVELOPMENT CENTER  
OFFICE OF THE DIRECTOR**

The National Cancer Institute is looking for two highly motivated, innovative biomedical scientists who will work in the Office of the Associate Director of the National Cancer Institute, Frederick Cancer Research and Development Center (NCI-FCRDC) developing new programs which will aid in attaining the goals of the NCI. These two positions will work closely with the new Associate Director, NCI-FCRDC to examine the role that the Center plays as an integral component of the intramural and extramural functions of the NCI. It is planned that this NCI facility, composed of four commercial contractors plus approximately 350 intramural NCI scientists, will become an outstanding national center for AIDS and molecular biologic research and an advanced resource for biomedical technologic methodologies. Both positions will be involved with planning goals, allocation of resources, and networking with the Divisions of NCI and with other Institutes within the National Institutes of Health.

The positions are located at the NCI-FCRDC in Frederick, Maryland, which is 30 minutes north of the main NIH campus. These positions in the U.S. Government are GS-14/15 and have the academic equivalent rank of an assistant/associate professor. United States Citizenship is required. A doctoral degree (Ph.D. or M.D.) is essential but not required, and background in molecular biology, cell biology, genetics, biochemistry, etc., is also a requirement.

If interested, please call (301) 402-2789 for a copy of the recruiting bulletins #CA-97-1937/CA-97-1938. You will also be required to respond to questions concerning your knowledge, skills, and abilities as they relate to the job as stated on the recruiting bulletins.



The NIH is an equal opportunity employer and encourages all qualified women and minorities to apply.



**RESEARCH SCIENTIST:  
TOXICOLOGIST/CHEMIST**

Brown & Williamson Tobacco Corporation, an international multibillion dollar consumer products company, has an immediate opening for its Macon, GA facility within the Research & Development Department.

The candidate we seek must have the capacity to make meaningful contributions in a work environment characterized as fast-paced and constantly changing. The position requires a high degree of organization/planning; the ability to review and decipher large volumes of tobacco related literature and make responses that are scientifically defensible.

The successful candidate, for employment, will have demonstrated their capabilities and orientation for success through their academic, work and personal histories, and evaluation processes.

Candidates must have experience and demonstrated proficiency in the following:

- A minimum of 5 years prior experience required.
- Computer literacy with databases, spread sheets, and word processing is required.
- Prior experience in a Toxicology contract lab preferred; and experience in health effects consulting firm, regulatory agency or industry preferred.
- A Ph.D. in Toxicology or other health effects related field *required*.
- Good verbal and written communication; math skills *required*.

Some job responsibilities would include but not be limited to the following:

- Develop and maintain technical expertise and awareness related to major smoking and health issues associated with environmental tobacco smoke (ETS) and smoke constituents.
- Provide analysis of research findings concerning investigator's interpretations, methodologies, and overall relevance to broader smoking and health issues.
- Monitor emerging ETS and smoking constituent research findings; develop an immediate response posture.
- Collaborate with other scientists to obtain technical input outside their area of expertise.
- Provide technical support within their field of expertise to other projects and activities within the scientific & regulatory affairs department.

We offer a highly competitive compensation with excellent benefits.

Please fax or mail your resume along with recommendations and indicators of job criteria above to: T.E. Brown, Brown & Williamson Tobacco Corp., 2600 Weaver Road, Macon, GA 31298, FAX: 912/755-4033.



An Equal Opportunity Employer M/F/V/ADA

**The Natural Solution  
For High Throughput  
Pharmacology...**



Axiom Biotechnologies is seeking scientists to develop and apply technologies in the area of High Throughput Pharmacological Screening and molecular optimization processes. Axiom is committed to becoming the pharmaceutical industry's partner-of-choice in pharmacology and drug discovery and offers employees a challenging and rewarding work experience. Career opportunities currently available are:

**Cell Biologist/Immunologist (Ph.D.)**

The successful candidate will lead projects in apoptosis and immunoglobulin class switching using T- and B-lymphocytes. In-depth knowledge of cell immortalization procedures and analytical methods are preferred. Ph.D. in Cell Biology/Immunology with 3+ years of relevant experience. **Job Code: BP-FAS.**

**Biochemical Assay Specialist (Ph.D.)**

The successful candidate will develop enzyme assay methods for Axiom's HT-PS™ System. Experience in enzymology and methods development and hands-on knowledge of the enzyme kinetics and use of fluorescent and chromogenic substrates are preferred. Ph.D. in Biophysics or Biochemistry or equivalent with 3+ years of industrial experience. **Job Code: BP-HSE.**

**High Throughput Screening Scientist (Ph.D.)**

The successful candidate will utilize fully-automated HT-PS instruments, supervise screening programs and carry out molecular pharmacology assays. Experience in developing fully automated high throughput screening assays, and working with databases are preferred. Ph.D. or equivalent in molecular science with 3+ years of industrial experience. **Job Code: DD-HTS.**

**Computational Chemist/  
Chemometrician (Ph.D.)**

The successful candidate will develop and integrate cheminformatic and chemometric methods and algorithms to analyze chemical compound design, chemical diversity, screening methodologies, and pharmacological profiles of compounds. Experience in computational chemistry and cheminformatics is preferred. Ph.D. in Computational Chemistry or related field with 2+ years of relevant post-doctoral experience. **Job Code: BI-CHE.**

**Combinatorial Chemist (Ph.D.)**

The successful candidate will perform solid and liquid phase synthesis of structurally defined small molecules for targeted drug discovery programs. Experience in synthetic method development, preparation of small organic libraries by parallel synthesis and compound analysis is preferred. Ph.D. in Chemistry or related field with 3+ years of industrial experience in combinatorial chemistry. **Job Code: CC-SAC**

**Database Administrator/Programmer (M.S.)**

The successful candidate will create a high throughput screening Laboratory Information Management System that integrates information related to chemical compounds, screening experiments, pharmacology, and related analysis. Experience in design, development, and integration of scientific databases based on ORACLE is preferred. M.S. or equivalent with 5+ years of industrial experience. **Job Code: BI-LIMS.**

For confidential consideration, please mail or e-mail your CV with salary requirements, indicating JOB CODE of interest to: **Axiom Biotechnologies Inc., 3550 General Atomics Court, San Diego, CA 92121-1194. E-mail: jlinton@axiombio.com.** Please visit our website at **www.axiombio.com.**



is an Equal Opportunity Employer

## POSITIONS OPEN

**ASSISTANT PROFESSOR OF MICROBIOLOGY.** The Department of Veterinary and Microbiological Sciences at North Dakota State University invites applications for a tenure-track faculty position in microbiology at the assistant professor level. The successful candidate will be expected to teach an undergraduate course in microbiology, develop a graduate-level course in his/her area of expertise, supervise graduate students, and establish an active, independent research program using contemporary approaches that will complement existing programs in bacteriology, immunology, and virology. Candidates must have a Ph.D. degree and research experience in microbiology or related field, evidence of recent research accomplishments, and demonstrate good oral and written communication skills. Postdoctoral research experience, teaching experience, and evidence of grantsmanship ability are preferred. Review of applications will begin August 18, 1997, and will continue until the position is filled. Send curriculum vitae, statements of research and teaching interests, and the names, addresses, and telephone numbers of at least three references to: Eugene S. Berry, Ph.D., Chair, Search Committee, Department of Veterinary and Microbiological Sciences, North Dakota State University, Fargo, ND 58105. Telephone: 701-231-7520; FAX: 701-231-7514; e-mail: berry@plains.nodak.edu. North Dakota State University is an Equal Opportunity Institution.

### ASSISTANT PROFESSOR NEUROGENETICS DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine invites applications for a tenure-track position at the Assistant Professor level. The Department is seeking an outstanding individual who uses contemporary molecular genetic approaches to evaluate the development and/or function of the nervous system. Candidates utilizing experimental systems such as *D. melanogaster*, *C. elegans*, or *D. rerio* are encouraged to apply. Attractive facilities and start-up package are available. The Department currently has a strong base of molecular and cellular neurobiologists studying problems of receptor and ion channel function and signal transduction. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: Michael J. Friedlander, Ph.D., Professor and Chair, Department of Neurobiology, 1719 6th Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021 by September 10, 1997. UAB is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Pharmacology at the University of California, Irvine (UCI) invites applications for a tenure or tenure-track faculty position at the level of Assistant, Associate, or Full Professor. We seek a scholar with a proven record of research accomplishment in molecular biology who has an interest in the function of neurotransmitters and receptors. Special consideration will be given to candidates with expertise and publications in gene knockout procedures. Other qualifications include an M.D. and/or Ph.D. in pharmacology or a related field and an interest and talent for teaching. Curriculum vitae, references, and a summary of research interests should be sent to: Professor S. Duckles, Chair Search Committee, Department of Pharmacology, College of Medicine, University of California, Irvine, Irvine, CA 92697-4625. UCI is an Affirmative Action/Equal Opportunity Employer.

### ASSISTANT CURATOR OF ENTOMOLOGY

The Denver Museum of Natural History is seeking an entomologist to develop a collections-based research program focused on insects in the Western Interior of North America and actively participate in public programming and exhibit that addresses broad, biodiversity-related issues. The successful candidate will possess a Ph.D. in entomology or related field, at least two years curatorial experience, exceptional verbal and written communication skills, and a strong desire to communicate with the public about natural science. The desired starting date is 1 November 1997. Applicants must submit a letter of interest accompanied by a curriculum vitae and the names, telephone numbers, and addresses of three references to: Chair, Entomologist Search Committee, Department of Zoology, Denver Museum of Natural History, 2001 Colorado Boulevard, Denver, CO 80205-5798. Deadline for applications is 30 August 1997.

## POSITIONS OPEN



### FRED HUTCHINSON CANCER RESEARCH CENTER

#### YEAST GENETICIST

Staff Scientist position for a Yeast Molecular Geneticist with postdoctoral experience at the NCI Field Station for anticancer drug discovery at the Fred Hutchinson Cancer Research Center available immediately. We are seeking an individual to study novel mechanisms of toxicity in yeast and support the construction and verification of our yeast damage response mutant collection. This exciting position, that is part of our Yeast Profiling Team headed by Philippe Szankasi, Ph.D., will also include close interactions with members at the Seattle Project, codirected by Leland Hartwell and Stephen Friend along with collaborations with other scientists at the Fred Hutchinson Cancer Research Center.

Salary dependent on experience plus excellent benefits. On-site child care. Interested candidates may submit a curriculum vitae by the closing date of September 15, 1997 to: Stephen H. Friend, M.D., Ph.D., Director of Molecular Pharmacology, Fred Hutchinson Cancer Research Center, Recruit #KM-7522, 1124 Columbia Street, M-477, Seattle, WA 98104. Equal Opportunity Employer.

### CELL BIOLOGY UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

The Departments of Cellular and Molecular Pharmacology and Biochemistry and Biophysics seek to recruit two to three outstanding cell biologists for a tenure-track appointment at the Assistant Professor level. Exceptional candidates will be considered for appointment at a higher level than Assistant Professor. The new faculty members will be members of the Cell Biology Program and the Program in Biological Sciences at UCSF. The successful candidates will have earned a Ph.D. or equivalent degree and will have demonstrated skills as an investigator in cell biology, broadly defined. They will exhibit outstanding potential for research, teaching, and graduate training. Applications should be submitted before October 15, and should include a curriculum vitae, bibliography, names of four references, and a brief description of research accomplishments and goals. Address applications to:

Ronald D. Vale, Ph.D.  
Chair, Cell Biology Search  
University of California, San Francisco  
Department of Cellular and Molecular Pharmacology  
513 Parnassus Avenue, Box 0450  
San Francisco, CA 94143-0450

Women and minority scientists are encouraged to apply. The University of California is an Equal Opportunity Employer.

### RESEARCH ASSOCIATE/ MICROBIAL IMMUNOLOGY

Research scientist or postdoctoral position open immediately investigating immunology of medical fungi (*J. Immunol.* 154:753, 1995; *J. Biol. Chem.* 270:30725, 1995; *Trends Microbiol.* 4:246, 1996; *ASM News* 63:140, 1997). Murine model studies will define cellular and molecular mechanisms of antigen-mediated protective immunity to a pathogenic fungus *Blastomyces dermatitidis* and harness them with genetic vaccines. Position requires background and experience in immunology and either cell or molecular biology. Successful candidate must be a skilled worker who is highly motivated, goal-oriented, and able to work well in a group. Salary commensurate with experience. Send curriculum vitae and names of three references to: Bruce Klein, University of Wisconsin, 600 Highland Avenue, Room K4/434, Madison, WI 53792. FAX: 608-263-0440; e-mail: brklein@vms2.macc.wisc.edu.

**RESEARCH WILDLIFE BIOLOGIST.** The position serves as team leader for interagency grizzly bear research in the Yellowstone Area, Bozeman, Montana, with responsibility for strategy and implementation of population and habitat research involving a threatened species in a predominantly wilderness setting. Skill in team leadership, credentials in vertebrate population ecology, and ability to communicate verbally and in writing are required. Salary \$45,000 to \$53,000. Contact: Personnel, USGS, 4512 McMurtry Avenue, Ft. Collins, CO 80525. Telephone: 970-226-9393. An Equal Opportunity Employer.

## POSITIONS OPEN

### DIRECTOR FOR RESEARCH AND TECHNOLOGY HEART AND LUNG INSTITUTE Southeastern Location

Our client, a nationally renowned Heart and Lung Institute located in a highly desirable southeastern city, is seeking a Director for Research and Technology. The Director of Research and Technology will guide, manage and promote the collaborative research activities of the Heart and Lung Institute. The Director will work with the faculty of a nearby university and other researchers to enhance the level and volume of cardiovascular research; facilitate the initiation and completion of quality research projects; promote and support the acquisition and maintenance of quality extramural funding; promote and support the publication of abstracts and papers; and be responsible for identifying new research opportunities and directions.

Requirements include a Ph.D. with cardiology or cardiovascular surgery research background and a track record for doing and/or managing basic, applied, or trial research in cardiology or cardiovascular surgery. Areas of focus at the institute include basic and applied research, device and clinical trials, database research, outcomes research, industry liaisons, and editorial support.

Please submit your curriculum vitae to: Allen Kupchik, Franklin Allen Consultants, Ltd., 401 Franklin Avenue, Garden City, NY 11530. Telephone: 516-248-4511; FAX: 516-294-6646.

Our client is an Equal Opportunity Employer.

### ENTOMOLOGIST FOR BIOLOGICAL CONTROL OF WEEDS

The U.S. Department of Agriculture, Agricultural Research Service, Pest Management and Agricultural Systems Research Unit located in Sidney, Montana, is seeking a Research Entomologist, GS-11/12/13 (\$37,507 to 69,492 per annum, salary commensurate with experience) to conduct research on ecological methods of exotic weed management. The scientist will serve as a member of a team conducting research to obtain knowledge about the biology and cultural management of exotic weeds infesting range and crops on the northern Great Plains. A Ph.D. in entomology is highly desirable; however, all applicants for this position must have a degree with at least 16 semester hours in entomology and one year of specialized experience that has provided the knowledge, skills, and abilities to develop, conduct, and document a scientific research project concerning biological control. This is a competitive, permanent appointment and U.S. citizenship is required. For information concerning the position, contact the Research Leader, Northern Plains Agricultural Research Laboratory at: Telephone: 406-482-2020. For application procedures/forms please contact Charlotte Anderson, Administrative Officer, at: USDA/ARS/HRD/WOB, 6305 Ivy Lane, Suite 200, Greenbelt, MD 20770-1435. Telephone: 406-482-9432; e-mail: canderso@sidney.ars.usda.gov; FAX: 406-482-9450. Application must be postmarked by August 18, 1997. ARS is an Equal Opportunity Employer.

**GRECC DIRECTOR.** Director of the Geriatric Research Education and Clinical Center at the Veterans Affairs Medical Center at Little Rock, Arkansas. M.D.'s or M.D./Ph.D.'s with an established record of research productivity in diseases of the elderly, including health service research, are invited. Expertise in some area of clinical geriatrics is also required. The selected applicant will have a joint appointment at the University of Arkansas for Medical Sciences (UAMS) at the level of Full Professor and will also serve as the Vice Chair of the recently founded Donald W. Reynolds Department of Geriatrics. Interested candidates should send a description of their special interest areas, curriculum vitae, and a list of references to: Stavros C. Manolagas, M.D., Ph.D., University of Arkansas School of Medicine, Slot 587, 4301 West Markham, Little Rock, AR 72203. Closing date for applications is August 31, 1997. Equal Opportunity Employer.

### SOFTWARE DEVELOPMENT IN STRUCTURAL BIOLOGY

Full- or part-time research programmer or postdoctoral positions: molecular computer graphics and computational projects in structural molecular biology.

Experience in C++, graphics programming, UNIX, HTML, Java, software development, and molecular structure desirable.

Contact by e-mail: alwalker@scripps.edu.

## TENURE-TRACK POSITION National Eye Institute

The Laboratory of Immunology, National Eye Institute, National Institutes of Health, Public Health Service is searching for a tenure track M.D. scientist with expertise in gene therapy and the diagnosis and treatment of retinal diseases. The candidate will be responsible for the development and implementation of ocular gene therapy trials involving retinal diseases particularly inflammatory and vascular disorders. The candidate will be expected to have expertise in basic science techniques relating to gene therapy with board-certification in ophthalmology and fellowship training in retina. Space, post-doctoral fellow support, supply budget and salary are committed. Applicants must be U.S. citizens or permanent residents. A curriculum vitae, bibliography, three letters of recommendation, and a detailed statement of research interests and selected publications should be submitted to:

**Chair, LI Search Committee**  
**NEI, c/o Cheryl Wild**  
**Building 31, Room 6A18**  
**31 Center Drive MSC 2510**  
**Bethesda, MD 20892-2510**



NIH is an Equal Opportunity Employer

## Staff Engineer

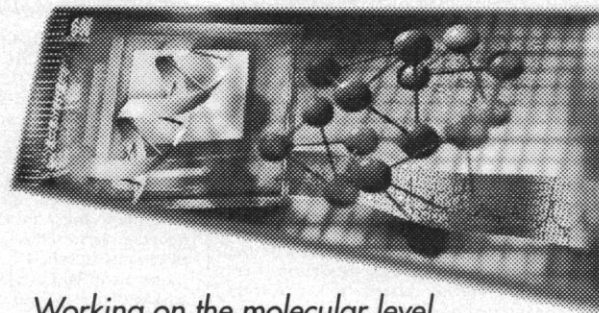
Life Technologies, Inc., a producer of scientific research products, has an immediate opportunity in Frederick, MD for a Senior or Staff Engineer specializing in the development of downstream processes for the manufacture of biological products. The selected candidate will be responsible for planning, modeling, execution, and technical transfer of projects as part of the Technical Manufacturing group. He/she will also lead technical projects interacting closely with staff from both the R&D and Manufacturing Divisions, in addition to external collaborations. The projects include process organization, scale-up, new product introduction, and new process technology introduction. The primary technical expertise sought is in Tangential Flow and Depth Filtration with a working knowledge of fermentation, cell culture, chromatography, and extraction unit operations. Management of one or more junior level engineers will be an additional responsibility of the position.

Minimum requirements are a Ph.D. with 2 years' experience or an MS with 5 years' experience in process engineering related fields. Good written and oral communication skills, as well as excellent analytical skills are essential. Candidates should have project management experience.

LTI offers a competitive salary and flexible benefits program which includes a company matched 401(k). Mail or fax resumes along with salary requirements in confidence to: **LIFE TECHNOLOGIES, INC., 7335 Executive Way, Frederick, MD 21704. FAX: 301-846-2333.**



LTI is an equal opportunity employer. We provide a drug-free workplace



*Working on the molecular level  
to conquer, treat, or prevent  
debilitating diseases.*

## INFECTIOUS DISEASES DISCOVERY RESEARCH

### AT SCHERING-PLOUGH

At the Schering-Plough Research Institute, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of exploratory pharmaceutical discovery, become part of an advanced multidisciplinary research group focused on infectious diseases.

## ASSISTANT SCIENTIST/ MICROBIOLOGIST

### Chemotherapy and Molecular Genetics

The Microbiologist we seek will utilize bacteria and fungi to evaluate antibacterial or antifungal drugs using various *in vitro* and *in vivo* procedures. To qualify, you will need a BS degree in Microbiology, Immunology or a related scientific field and 2-4 years of laboratory experience, or an MS degree and 1-2 years of experience. Background must include sterile techniques, growing microorganisms, *in vitro* testing (e.g., MICs) and a range of *in vivo* experimental techniques. Knowledge of computer applications and molecular biology techniques is an asset.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter referencing Dept. DD7124-PC, original copy only, to: Human Resources-PC, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, 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

## POSITIONS OPEN

### SCIENTIST, WORLD HEALTH ORGANIZATION GENEVA, SWITZERLAND VACANCY NOTICE NO. 97/76-E

Global Programme for Vaccines and Immunization (GPV), Expanded Programme on Immunization (EPI), seeks well-qualified doctoral-level virologist. Incumbent will assist in the development and operation of a network of reference and national laboratories to support polio eradication and measles and yellow fever control activities. Ten years of experience at the national or the regional level in a diagnostic laboratory performing viral isolation and characterization, two years experience at the international level, and experience in managing a virology laboratory are desired. Additional qualifying information is available from: [www.who.org/programmes/per/vacancies/vacancy.htm](http://www.who.org/programmes/per/vacancies/vacancy.htm). Applications should be received by 22 August 1997 and sent (quoting vacancy notice number and including a detailed curriculum vitae and photograph) to: **Head, Professional Candidates, Division of Personnel, World Health Organization, 20 Avenue Appia, CH-1211 Geneva 27. FAX: 41-22-791-0746; e-mail: vacant@who.ch.** This vacancy is open to applicants of either sex. Applications from women are encouraged.

### POPULATION GENETICS/BIOLOGY

The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track Assistant Professor position in population genetics/biology. We encourage applicants whose research interests are at the interface between population biology and genetics and who use the study of molecular and/or quantitative trait variation to investigate population-level processes. Desired starting date January, 1998. The successful candidate will have a Ph.D. or equivalent degree and postdoctoral experience in population genetics/biology. Responsibilities include development of a strong, funded research program directing student research, and teaching at the undergraduate and graduate level. Closing date for applications: September 8, 1997 or until candidate selected. Applications, including curriculum vitae, representative publications, brief statement of research and teaching interests, and three letters of reference should be sent to:

**Dr. William J. Platt**  
Chair, Population Genetics/  
Biology Search Committee  
Department of Biological Sciences  
Life Sciences, Room 508  
Louisiana State University  
Baton Rouge, LA 70803  
E-mail: [btplat@unil.sncc.lsu.edu](mailto:btplat@unil.sncc.lsu.edu)

**STAFF SCIENTIST.** The Laboratory of Cellular and Molecular Biology, National Cancer Institute is seeking a Staff Scientist with a minimum of six years of postdoctoral training who has documented expertise in the area of growth factor-mediated signal in relationship to cancer. Preference will be given to candidates demonstrating a strong peer-reviewed publication record in these areas of research. Experience in construction and screening of cDNA libraries and expression vectors, transfection, Southern, Northern, PCR analysis, FACS sorting, advanced protein biochemistry, and receptor-ligand binding assays are required. The candidate will work under the supervision of a tenured investigator. *Candidates must have a M.D. or Ph.D. and U.S. citizenship.* Salary will be commensurate with experience.

Interested applicants should submit a curriculum vitae, bibliography, a one- to two-page summary of research experience, and three references to: **Patrick H. Miller, Building 41/Room A206, 41 Library Drive, MSC 5055 Bethesda, MD 20892.** Applications will be accepted for 30 days from the date of this journal issue.

*The National Cancer Institute is an Equal Opportunity Employer.*

### PROGRAMMER/ANALYST I

A computer programmer position to lead the Infomatics group of the Arabidopsis Genome Sequencing project at the University of California at Berkeley/USDA Plant Gene Expression Center is available. The individual will be responsible for the information aspects of high-throughput DNA sequencing. Experience in UNIX-based computers and programming with Perl and C is required. Deadline: August 15, 1997. Send résumé to: **University of California, Berkeley, Campus Personnel Office #3540, Job#07-216 20/CP, 2200 University Avenue, Room 7-6, Berkeley, CA 94720-3540.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**PLANT MOLECULAR BIOLOGIST/RESEARCH GENETICIST (PLANTS).** U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Corn and Soybean Research Unit, Wooster, Ohio, has a permanent full-time position in which the incumbent will have primary responsibility to develop a research program to identify and elucidate the molecular mechanisms underlying the genetic and biological bases of virus resistance/tolerance in corn. Applicants must have professional knowledge of classical and molecular genetics, and cellular and molecular biology of plants. Applicants must have had the experience to perform techniques involved in traditional and molecular approaches to identify, map, and clone genes and determine their functions, as well as evidenced the ability to plan, conduct, and report research. Professional research experience and/or directly related education required. Research experience involving the molecular biology, genetics, and development of corn in relation to virus disease is highly desirable. Salary commensurate with experience (\$37,507 to \$58,442). *U.S. citizenship required.* For information about the research program, contact **Dr. Raymond Louie: 330-263-3834.** For application information, call the ARS Dial-A-Vacancy service: **301-344-8057** (identify announcement number ARS-D7N-0137) or access ARS Employment Opportunities: <http://www.ars.usda.gov>. Incomplete applications will not receive consideration. Applications must be postmarked by September 19, 1997. *USDA/ARS is an Equal Opportunity Employer.*

### THE JOHNS HOPKINS MEDICAL INSTITUTIONS IMMUNOPATHOLOGY FELLOWSHIP

Description: This is a two-year, academically oriented, ACGME-approved fellowship leading to Board eligibility in immunopathology. The Fellow gains experience with clinical and laboratory aspects of immune-mediated diseases, becomes qualified to administer an immunopathology laboratory, and is prepared for an academic research-oriented career. Qualified students may apply for doctoral training in immunology. Requirements: Completion of residency training in pathology. Stipend: Commensurate with applicant's level of relevant postdoctoral training. Application: Please send curriculum vitae and three letters of recommendation to: **Noel R. Rose, M.D., Ph.D., Director of Immunology, Department of Pathology, Ross Research Building 659, Johns Hopkins University, School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205-2196. Telephone: 410-614-4173; FAX: 410-614-3548.** Applications for the 1997-1998 academic year are being accepted now. *Equal Opportunity Employer/Minorities/Females/Disabled. Drug-free and smoke-free.*

### MANAGER OF TRANSGENIC FACILITY DEPARTMENT OF BIOLOGICAL SCIENCES COLUMBIA UNIVERSITY

A position is available to manage a newly established transgenic/knockout mouse facility. Applicants should have a B.S. or M.S. degree and experience in blastocyst recovery, injection and implantation techniques, and ES cell culture. Experience in tissue processing, embedding, and histology is desirable but not required. Please submit a curriculum vitae and three letters of recommendation by September 12, 1997, to: **Terrance Cope, Business Manager, Department of Biological Sciences, Columbia University Mail Code 2401, 1212 Amsterdam Avenue, New York, NY 10027.**

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

### ADMINISTRATIVE DIRECTOR

Center for Health and the Global Environment, Harvard Medical School, first Center in the United States focusing on health and global environmental change. Need M.D., M.P.H., or science Ph.D., three to five years as leader in environmental or medical organization, and fund-raising experience. \$75,000. Send résumés to: **R. Amelio, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115.**

**RESEARCH FELLOW POSITION** available for a physician scientist who has research experience in animal models and gene transfer or stem cell. The projects are to develop gene therapy for cancer and HIV-1 (*Nature*, 353: 78; *Nat. Biotech.* 15:46). Competitive salary, depending on experience. Send curriculum vitae and the names of three references to: **Dr. Si-Yi Chen, Department of Cancer Biology, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27157.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TEACHING POSITION IN PHARMACOLOGY/PHYSIOLOGY

The Department of Pharmacodynamics in the College of Pharmacy at the University of Florida is seeking an Assistant/Associate Scholar to join the department January 1, 1997. The position will involve full-time effort in teaching of pharmacology and physiology to undergraduate pharmacy students. The position is a 12-month, non-tenure-track faculty position which is renewable annually. Applicants must have a Ph.D. in pharmacology, physiology, or a related field and must have previous teaching experience. Applicants should submit a curriculum vitae, a statement of teaching experience and interests, and letters from three references by September 15, 1997 to: **Dr. Joanna Peris, Chair, Pharmacodynamics Search Committee, Box 100487, University of Florida, Gainesville, FL 32610. FAX: 352-392-9187.**

If any candidate needs an accommodation for this position due to disability, please contact **Dr. Joanna Peris** at: **352-392-9768.** *The University of Florida is an Equal Opportunity/Affirmative Action/ADA Employer. The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records laws. Search committee meetings and interviews will be open to the public, and all applications, résumés, and other documents related to the search will be available for public inspection.*

### SENIOR SCIENTIST/TOXICOLOGIST

The ILSI Risk Science Institute, a nonprofit scientific institute, seeks a **SENIOR SCIENTIST** broadly trained in toxicology with expertise in human health risk assessment. Position requires a Ph.D. in toxicology or related biological science and three-plus years of professional experience. Successful applicant will work with scientists from diverse disciplines on issues related to human health risk assessment. Responsibilities include organizing and staffing technical working groups, evaluating and analyzing scientific data, drafting and editing manuscripts, creation of project concepts, and identification and solicitation of funding support for projects. Strong quantitative skills and experience in exposure assessment, PB-PK modeling, uncertainty analysis, or epidemiology desirable. Position level and salary commensurate with experience. To be considered, send detailed résumé, publication list, names and address of four references, and salary history to: **Human Resources, ILSI, 1126 16th Street, N.W., Washington, DC 20036. E-mail: [rboyce@ilsr.org](mailto:rboyce@ilsr.org); FAX: 202-659-3859.** *Equal Opportunity Employer, Minorities/Females.*

### MODELERS

The National Institute for Occupational Safety and Health (NIOSH), Health Effects Laboratory Division (HELD), has immediate openings for mathematicians, scientists, and engineers skilled in mathematical/computer modeling. Candidates should have an M.S. or Ph.D. degree and extensive experience in modeling research. Experience in occupational or environmental safety and health research is highly desirable for the leadership position. Specific research areas include *ab initio* quantum mechanics, analysis of complex spectroscopic data, molecular modeling, quantitative structure-toxicity relationships, toxicokinetics, complex biological systems, computational fluid dynamics, and complex engineering/physical systems. Salary range is \$31,000 to \$82,000; benefits packages available. For application information, contact: **NIOSH, HELD/EAB/MR, 1095 Willowdale Road, Morgantown, WV 26505.** Permanent positions are announced on the CDC home page at: <http://www.cdc.gov>. *U.S. citizenship required for permanent positions.* Some temporary positions also available. *CDC/NIOSH is an Equal Opportunity Employer.*

**SENIOR NATURAL SCIENCE EDUCATOR** for Natural History Museum. Plan, implement docent training. Develop, implement, monitor, and interpret conservation, environmental, natural history, evolution, and planetary science programs. Instruction and course developed with other education department training programs. M.A. in biology, Ph.D. preferred. Five or more years of teaching experience, college level preferred; curriculum/program development desirable. Excellent oral, written, interpersonal, organizational, and problem solving skills, and dynamic public speaker. Able to work some evenings and/or weekends. Salary commensurate with experience, excellent benefits. Send a letter of interest, résumé, and three references to: **California Academy of Sciences, HR Department #SSE, Golden Gate Park, San Francisco, CA 94118. FAX: 415-750-7210.** No calls please. *Equal Opportunity Employer.*



#### FUNDING AVAILABLE

CaP CURE, the Association for the Cure of Cancer of the Prostate, is soliciting proposals for its 1997/1998 funding year. The organization's goal is to find a cure for advanced prostate cancer.

Applications are competitive and accepted from individuals with or without institutional affiliation. Awards range from \$50,000–\$200,000 for the year. Applications (3–5 pages) can be for basic research, clinical investigations or a combination and must be relevant to the treatment of advanced prostate cancer. We encourage interdisciplinary collaborations between basic scientists and clinicians. (For-profit companies are not eligible.) Applications will be accepted August 15, 1997 through September 30, 1997. Awards will be announced by December 1, 1997.

*For consideration, please first request application guidelines:*

CaP CURE  
1250 Fourth Street, Suite 360  
Santa Monica, CA 90401  
Phone: (310) 458-2873 Fax: (310) 458-8074  
(800) 757-2873 E-mail: [capcure@mcimail.com](mailto:capcure@mcimail.com)

#### RESEARCH

### ASSOCIATE SCIENTIST/RESEARCH SCIENTIST

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

You will work closely with the drug metabolism group in characterizing small molecule drug metabolites in biological matrices from both in vivo and vitro sources. Responsibilities will include identification and characterization of degradation/impurities present in newly synthesized drugs. Requirements for this position include a BS in Medicinal Chemistry, Bioanalytical Chemistry, or a related field, and typically 8-10 years' experience in metabolite and degradation product identification, and hands-on experience with LC/MS. MS degree in the Life Sciences preferred. Research Scientist requirements include a Ph.D. and completed post-doctoral training or the equivalent industrial experience. Candidates should possess strong interpersonal and communication skills and be able to interface effectively with scientists from related disciplines.

**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, Human Resources, Job Code BNSCB11102, P.O. Box 19409, Boulder, CO 80308-2409. Please consult our Web site at [www.amgen.com](http://www.amgen.com) or call our Job Hotline at 800-446-4007 for information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V

*3-Dimensional Pharmaceuticals, Inc., is a drug discovery company integrating advanced technologies in structure-based drug design, combinatorial chemistry, and chemi-informatics to discover breakthrough pharmaceuticals.*

## Enzymology/High Throughput Screening

We are currently seeking individuals to join our enzymology group to identify new targets, develop enzyme and receptor assays, characterize enzyme and inhibitor mechanisms, develop automated systems and adapt assays for high throughput screening. Qualified candidates will have a background in high throughput screening or enzymology, experience with building automated systems and developing automated enzyme and receptor binding assays. Positions are available at the following levels:

- **Director:** The ideal candidate will possess a Ph.D. in biochemistry, biology, chemistry or a related discipline with a minimum of 7 years of pharmaceutical industry experience and will have a record of accomplishment in enzymology, small molecule drug discovery and project management. Excellent communication, interpersonal, and leadership skills are essential. (Job Code: ES2)
- **Ph.D.:** Qualified candidates will have a Ph.D. in biochemistry, biology, chemistry or a related discipline with a minimum of 2 years of postdoctoral research experience. (Job Code: ES3)
- **BS/MS:** Successful candidates will have a BS or MS degree in chemistry, biochemistry or biology and 2 years of relevant pharmaceutical industry experience. (Job Code: ES4)

## Molecular Biology/Protein Expression

- **BS/MS:** Successful candidates will have a BS or MS degree in an appropriate scientific discipline and have a minimum of 3 years of relevant research experience. The individual will be responsible for cloning and expression of target proteins for x-ray crystallography and drug discovery. Special consideration will be given to candidates with a history of successful teamwork. (Job Code: MB1)

3-DP is located in Exton, PA and offers a comprehensive salary and benefits package. Qualified individuals are invited to send a resume and contact data for three references to:

3-Dimensional Pharmaceuticals, Inc.  
Job Code: \_\_\_\_\_, 665 Stockton Drive  
Suite 104, Exton, PA 19341



**3-Dimensional Pharmaceuticals, Inc.**  
<http://www.3dp.com>

AN EQUAL OPPORTUNITY EMPLOYER

## POSITIONS OPEN

### MOLECULAR BIOLOGIST

Kemin Industries, Inc., located in Des Moines, Iowa, is a worldwide manufacturer and distributor of specialty ingredients for the feed and food industry. Kemin Biotechnology, L.C. is a subsidiary of Kemin Industries, Inc.

Kemin Biotechnology, L.C. has immediately available a research scientist position for a molecular biologist who will conduct exploratory and applied research on the engineering of microbial organisms for the production of recombinant proteins. The candidate should have a Master's degree and at least three years of experience or a Ph.D. degree in microbiology, molecular biology, or biochemistry. A strong background in microbial, recombinant DNA technology and molecular biology is required. Experience in carbohydrate chemistry and fermentation technology is a plus. No smoking is allowed on the premises.

Send résumé to: Dr. F. Brinkhaus, Kemin Biotechnology, L.C., 2100 Maury Street, Des Moines, IA 50301.

*Equal Opportunity Employer.*

### RENAL PHYSIOLOGIST

Applications are invited for an appointment as a renal physiologist to lead a strong and distinguished research program in regulatory physiology in the Division of Intramural Research, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health. Candidates are sought with experience using modern molecular and cellular approaches, including functional studies in genetically modified animals, to understand intrarenal regulation of the circulation. Candidates should have a strong international reputation and record of a highly competitive and productive research program. Please send curriculum vitae and bibliography to: Ms. Kay Place, Division of Intramural Research, NIDDK, Building 10, Room 9N222, 10 Center Drive MSC 1818, National Institutes of Health, Bethesda, MD 20892-1818. Closing date is August 28, 1997.

### UNIVERSITY OF FLORIDA

Seeks an **ENDOCRINOLOGIST** for the Department of Medicine, Division of Endocrinology and Metabolism, with the rank of Clinical Assistant Professor. M.D. degree, Board certified in Internal Medicine, Board eligible for Endocrinology. Responsibilities include quality patient care, teaching, and clinical research. Salary and benefits commensurate with experience. Recruiting deadline August 14, 1997. Anticipated starting date October 1, 1997. Reply with curriculum vitae to: M. B. Grant, M.D., Associate Professor and Chief, Box 100226 JHMC, Gainesville, FL 32610. *An Affirmative Action/Equal Opportunity Employer.*

### SENIOR TECHNICIAN/ LABORATORY MANAGER

The Howard Hughes Medical Institute at Children's Hospital has an opening for an experienced individual to provide support to an active molecular biology laboratory investigating blood cell development. Strong research experience, excellent organizational and communication skills required. M.S./Ph.D. strongly preferred.

HHMI offers a competitive salary and excellent benefits package. Respond to: Steven Barbour, HHMI/Children's Hospital, 320 Longwood Avenue, Boston, MA 02115. E-mail: barbours@hq.hhmi.org.

*Equal Opportunity Employer.*

### UNIVERSITY OF PENNSYLVANIA

**POSTDOCTORAL POSITION** available immediately to study glycoprotein interactions with cellular receptors during herpes simplex virus entry into mammalian cells. The candidate should have a strong background in molecular or cell biology, virology, or biochemistry. Please send curriculum vitae, and names of three references with telephone numbers to: Drs. Gary H. Cohen and Roselyn J. Eisenberg, Microbiology, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA 19104-6002. *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** is available with the Laboratory of Cellular and Molecular Biology, National Cancer Institute, to study growth factor-mediated signal transduction in relationship to cancer. Applicants must have a Ph.D. or M.D. and less than five years of postdoctoral experience. Submit a curriculum vitae with names and phone numbers of three references to: Dr. Jacalyn H. Pierce, Building 37/Room 1E24, 37 Convent Drive, MSC 4255, Bethesda, MD 20892.

## POSITIONS OPEN

### ELECTRON MICROSCOPIST NATIONAL INSTITUTES OF HEALTH

The National Institute of Child Health and Human Development (NICHD) invites applications for an **ELECTRON MICROSCOPIST** position in the Cell Biology and Metabolism Branch (CBMB). The position is at a senior technician level, although individuals with other levels of training will be considered depending on qualifications and experience. The ability to perform cryo-sectioning, gold immunolabeling, and quantitative electron microscopy is an essential requirement for this position. Salary will be commensurate with experience. The successful candidate is expected to collaborate with several groups at CBMB, a branch of NICHD that pursues studies in various areas of cell and regulatory biology. Applicants should send a curriculum vitae and three letters of reference to: Dr. Juan S. Bonifacio (Re. EM Search), CBMB-NICHD, National Institutes of Health, Building 18T Room 101, 18 Library Drive MSC 5430, Bethesda, MD 20892-5430, U.S.A. Deadline for receipt of applications: September 1, 1997.

*NIH is an Equal Opportunity Employer.*

### ELECTRON MICROSCOPIST

The Scripps Research Institute (TSRI) has an opening for an Electron Microscopist to carry out routine maintenance on the Hitachi/Philips microscopes; perform tissue preparation, including fixation, embedding, and sectioning. Experience in cryo-ultramicrotomy, freeze-fracturing, and confocal microscopy desirable. Qualified candidate will possess a B.S. or M.S. in a biological science and three to five years of directly related experience.

Send résumé to: TSRI, 10550 North Torrey Pines Road, TPC11, La Jolla, CA 92037. FAX: 619-784-8071. Reference "Science" on your cover letter. *We value and support diversity in our workforce/Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION ALZHEIMER'S DISEASE NEURODEGENERATION

Available immediately to study the role of inflammation in Alzheimer's disease neurodegeneration. Candidates with strong background in immunohistochemical and molecular-neuroanatomical techniques (*in situ* hybridization) are strongly encouraged to apply. Qualified candidates should forward curriculum vitae and the names of three references to: Giulio Maria Pasinetti, M.D., Ph.D., Department of Psychiatry, Box 1229, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-5579. Telephone: 212-241-5579. *We are an Equal Opportunity Employer fostering diversity in the workplace.*

### RESEARCH POSITION IN MAGNETIC RESONANCE MICROSCOPY

Associate in Research to assist in performing small animal research in *in vivo* MR microscopy. Technical skills required in the following areas: anesthesia, surgery, and physiology of small animals (rodents); working knowledge of data acquisition and computer processing. Master's degree in animal biology/vertebrate physiology, and/or biomedical engineering with animal experience involving physiologic recording and surgery are required. Send résumé to: H. Benveniste, M.D., Ph.D., Box 3302 Duke University Medical Center, Durham, NC 27710. E-mail: resa@orion.mc.duke.edu.

**POSTDOCTORAL ASSOCIATE** position available at Cornell University. Position available to study genes involved in the developmental regulation of folate status and metabolism in animal models. Preference given to candidates with expertise in protein chemistry/molecular biology or murine development/transgenics. Ph.D. required. Send curriculum vitae and three letters of reference to: Dr. P. Stover, Division of Nutritional Sciences, Cornell University, Savage Hall, Ithaca, NY 14853-6401. E-mail: pis13@cornell.edu. *Affirmative Action/Equal Opportunity Employer.*

The Exeter Group is a medical education company whose clients are among the leaders in the pharmaceutical industry. By educating physicians, we help our clients meet their commercial goals. We seek a **MEDICAL EDITOR/WRITER** to join our team. The successful candidate will have a strong science background (Ph.D. preferred) and exceptional communication skills. This position entails significant responsibility. Salary will be competitive. Curriculum vitae, letter to: Personnel, 400 Madison Avenue, Suite 807, New York, NY 10017.

## POSITIONS OPEN

### FELLOWSHIPS IN AIDS RESEARCH

New York University, an NIH-designated Center for AIDS Research, invites applications to a multidisciplinary postdoctoral program for training in basic research related to the immunopathogenic mechanisms underlying HIV infection. Trainees will work collaboratively with mentors specializing in immunology, retrovirology, molecular biology, anti-viral therapeutics, or pediatrics. The program is placed within a multi-institutional setting with labs located at NYU Medical Center, the Public Health Research Institute, Veterans Administration Medical Center, and Bellevue Hospital. As many as seven fellows will be accepted into this NIH-sponsored program for up to three years of training.

Individuals with an M.D., Ph.D., or M.D./Ph.D. may apply. *Candidates must be U.S. citizens or permanent residents.* Please submit a curriculum vitae with a summary of past research experience and arrange for three letters of recommendation to be sent directly to:

Susan Zolla-Pazner, Ph.D.  
V.A. Hospital

423 East 23rd Street, Room 18124N  
New York, NY 10010-5050  
FAX: 212-951-6321

*Women and minority candidates are encouraged to apply.*

**POSTDOCTORAL POSITION** available immediately to study the role of RGS (regulator of G-protein signaling) proteins in heterotrimeric G-protein-mediated signal transduction processes (*Nature* 379:742, 383:172, 1996). Studies include structure-function relationships determining biochemical interaction of RGSs with G-proteins and the role of RGSs in inflammatory and immune processes through development of transgenic animals. Experience in cellular and molecular biology is required and some familiarity with either protein biochemistry or transgenic/knockout technology is desirable. Please send curriculum vitae and the names, addresses, and phone numbers of three references to:

Dr. Kirk Druey,  
Laboratory of Allergic Diseases  
NIAID/NIH/Twinbrook II  
12441 Parklawn Drive  
Rockville, MD 20852 U.S.A.  
E-mail: kdruey@atlas.niaid.nih.gov.

*NIH is an Equal Opportunity Employer.*

**POSTDOCTORAL** position available immediately in the Department of Medicine, University of Florida. The NIH-sponsored project involves the development of GC-MS and other methods for drugs and metabolites labeled with stable isotopes and the application of these methods to human and animal studies of *in vivo* drug kinetics and metabolism. The applicant must hold a Ph.D. in chemistry, medicinal chemistry, pharmaceuticals, biochemistry, or a related field. Proficiency in MS and GC-MS is required and experience with the application of GC-MS or LC-MS methods to drug metabolism is preferred. Send curriculum vitae, cover letter, and name, address, and telephone number of three references before August 31 to: Peter W. Stacpoole, Ph.D., M.D., Director, Clinical Research Center and Professor of Medicine, Biochemistry and Molecular Biology, Box 100226, University of Florida, Gainesville, FL 32610-0226.

### POSTDOCTORAL RESEARCH POSITION IN CEREBROVASCULAR DISORDERS

The Cerebrovascular Laboratory at the University of Vermont is seeking a postdoctoral research fellow for ongoing studies in stroke. Candidates must have a thorough understanding of cerebrovascular physiology. Technical expertise in whole animal models/surgery preparation and experience in immunohistochemistry required. A background in cell culture techniques is highly desirable.

Send curriculum vitae and three letters of recommendation by October 1, 1997 to: Martin M. Bednar, M.D., Ph.D., Director of Surgical Research, Given D319, University of Vermont, Burlington, VT 05405. FAX: 802-656-0680.

**POSTDOCTORAL POSITION** available immediately to study the physiology of oxygen chemoreception and intracellular calcium control in carotid body cells. Experience in ratiometric fura-2 photometry is essential, and in calcium imaging is preferred. Send curriculum vitae and names of three references to: Dr. Frank Powell, University of California San Diego, Department of Medicine, Physiology Division-0623A, 9500 Gilman Drive, La Jolla, CA 92093-0623. E-mail: fpowell@ucsd.edu. *Equal Opportunity/Affirmative Action Employer.*



## THE UNIVERSITY OF IOWA

### POSTDOCTORAL ASSOCIATE POSITIONS THE UNIVERSITY OF IOWA College of Medicine

Please contact the following departments for Postdoctoral positions at the College of Medicine. Postdoctoral positions are limited to a maximum of three years. A Ph.D. or equivalent is required. Desirable qualifications are based on Project Investigator's interest for research. Send curriculum vitae and the names/telephone numbers of three references to the individual listed below. Please specify area of interest in letter of application in accordance with the categories listed under each department below. *Women and minorities are strongly encouraged to apply.* **The University of Iowa, College of Medicine, Iowa City, Iowa, 52242, is an Equal Opportunity/Affirmative Action Employer.**

**ANATOMY**—Research areas include fetal alcohol syndrome, cell and molecular biology, cancer, development, muscle including cardiovascular, and neuroscience. **George McHenry**, 1-577 Bowen Science Building.

**BIOCHEMISTRY**—Research areas include biochemistry, biophysics, cell biology, and molecular biology. **Dr. Arthur A. Spector**, 4-403 Bowen Science Building.

**MICROBIOLOGY**—Research areas include immunology, virology, pathogenic bacteriology, microbial genetics, microbial physiology, biotechnology, and medical mycology. Send curriculum vitae and the names/telephone numbers of 3 references to **Ms. B.K. Spence**, 3-403C Bowen Science Building.

**NEUROLOGY**—The Department of Neurology welcomes applications for postdoctoral associate positions which may be recruited in the following subspecialty areas: Neuropsychology, Epilepsy, Cerebrovascular Disease, Stroke, Clinical Electrophysiology, Neuromuscular Disease, Neurochemistry, and the Laboratory of Neurobiology and Circulatory Control. **Antonio R. Damasio, M.D., Ph.D.**, Professor and Head, Department of Neurology.

**OBSTETRICS/GYNECOLOGY/PHARMACOLOGY**—Postdoctoral Associate position is available to study the molecular genetics of oncogene/tumor suppressor gene expression in ovarian cancer with a goal of establishing novel gene therapy strategies. Molecular biology experience required. **Richard E. Buller, M.D., Ph.D.**, Associate Professor, Director, Division of Gynecologic Oncology, Department of Obstetrics and Gynecology and Pharmacology. **Phone: (313) 356-2015.**

**OPHTHALMOLOGY**—Research areas include both molecular biology (pcr, DNA sequencing, SSCP) and cell biology (light and electron microscopy, tissue culture).

**PATHOLOGY**—Research areas include molecular and cellular pathology, immunology, translational research and outcomes research. **Mari Kucera**, 125 Medical Laboratories.

**PEDIATRICS**—**Dr. Frank H. Moriss, M.D.**, Professor and Head. Possible openings in all of pediatric specialties.

**PHARMACOLOGY**—Openings available in all areas of Pharmacology, including molecular and cellular mechanisms of drug action and metabolism, signal transduction, and neuropharmacology. **Dr. Gerald F. Gebhart**, Professor and Head, Bowen Science Building.

## The Science of Agricultural Genetics

### SENIOR RESEARCH ASSOCIATE

#### Plant Molecular Biology — Crop Protection (Job #CP-710)

The successful candidate will assume a key role in an established molecular biology group responsible for the rapid isolation and development of genes for transgenic control of crop insect pests. This individual will show initiative and team leadership, contributing to technology development and the timely completion of defined projects. Qualifications include competence in the production of genomic and cDNA libraries and characterization of clones, DNA sequence analyses, PCR, oligonucleotide design, Southern, northern and western blots, familiarity with methods of microbiology and protein biochemistry, gene modification, gene expression, and related detection methods. Practical experience with plant molecular biology is preferred. Computer skills include: expertise with construct design, sequence alignments and analyses for proteins and nucleic acids, database analyses, data entry. **EDUCATIONAL REQUIREMENT:** Minimum M.S. in molecular biology or closely related field and at least five years practical experience in molecular biology with strength in protein biochemistry.

### POSTDOCTORAL ASSOCIATE

#### Receptor Molecular Biology — Crop Protection (Job #CP-711)

The successful candidate will assume a key role in an established molecular biology group responsible for the control of crop insect pests. This individual will show initiative and team leadership, contributing to technology development for the isolation, study and targeting of insect receptor systems. Qualifications include competence in the production of genomic and cDNA libraries and characterization of clones, nucleic acid analyses, protein biochemistry, receptor-ligand interactions, PCR, oligonucleotide design, Southern, northern and western blots, gene modification, gene expression, transfection of cultured eucaryotic cells, related detection methods. Computer skills include: expertise with construct design, manipulation of protein and nucleic acid sequences, database analyses, molecular modeling. **EDUCATIONAL REQUIREMENT:** Minimum Ph.D. in molecular biology or closely related field and practical experience in molecular biology with strength in protein biochemistry.

### RESEARCH ASSOCIATE

#### Genome Research — Targeted Genetics (TUSC) (Job #GR-707)

The successful candidate will assume a key role on a team dedicated to facilitating the analysis of gene function in maize. A current approach uses transposon mutagenesis, array technologies, and PCR-based screening to identify "knockout" alleles for targeted genes of interest. This position requires a minimum B.S./B.A. in biology, genetics, molecular biology, or related field, plus 2-3 years direct experience in molecular biology. Emphasis is placed on organizational skills to supervise assistant-level personnel, manage laboratory operations, and complete defined projects while contributing to technology development. Fundamental knowledge of genetics and plant biology, and experience in DNA sequence alignment/analysis, PCR protocol optimization, oligonucleotide primer design, and relational databases is desired.

### RESEARCH ASSOCIATE

#### Genome Research (Job #GR-709)

This position requires a M.S. or B.S. degree or equivalent in molecular biology, biochemistry, or related field with 2-3 years experience with total and/or polyA RNA preparation from plant material. Primary responsibility will be to develop and test procedures for rapid preparation of large numbers of RNA samples. Additional responsibilities will include development and production of customized arrays of cDNA clones, cataloging RNA samples, QC, and assistance in managing transcript profiling data using proprietary software. Other skills such as Southern, Northern, RPA, PCR, and/or RT-PCR analyses are expected. Experience with robotics or automated systems and familiarity with plant breeding and genetics are a plus. Excellent computer skills with experience in DNA/RNA-related and statistical analysis are essential. Interpersonal communication and ability to work with limited supervision are also essential.

For confidential consideration send 3 copies of your current resume and cover letter indicating job number by August 31, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job # ———), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages.



**PIONEER HI-BRED  
INTERNATIONAL, INC.**  
An Equal Opportunity  
Employer



HÔPITAL  
GÉNÉRAL  
D'OTTAWA

OTTAWA  
GENERAL  
HOSPITAL

## Research Associate

### Neuromuscular Disease Laboratory

Reporting to the Director of Research, you will have responsibility for a small research group involved in viral and non-viral approaches to gene delivery in muscle, with a long-term goal of gene therapy for neuromuscular disease.

Your PhD is complemented by postdoctoral experience in molecular genetics, preferably with experience in the study of neuromuscular disease. You must also have extensive experience with genetic manipulation of plasmids, transfection of mammalian cells and assays for reporter gene expression. Additional knowledge of muscle cell culture and gene expression in muscle or of viral and non-viral vectors for gene delivery to muscle would be a definite asset.

Please forward your résumé in confidence by August 15, 1997, including three references and quoting reference number HG SC 97-011, to **Dr. Ronald Worton, Director of Research, c/o Department of Human Resources, Ottawa General Hospital, 501 Smyth Road, Ottawa, Ontario K1H 8L6. Fax: (613) 737-8204.**

## Ph.D. Scientist

### Cardiovascular Disease

**COR Therapeutics, Inc.**, is a publicly-held biopharmaceutical company located in South San Francisco. We're focused on the discovery and development of novel therapeutics for the treatment of severe cardiovascular disease, and we currently have an excellent opportunity for a well-qualified scientist with a proven track record to join our dynamic research team.

We are looking for a hands-on scientist with a strong background in protease enzymology to work on the characterization and structure/activity relationships of small molecule coagulation inhibitors. The position requires a Ph.D. in biochemistry along with a minimum of 4 years of postdoctoral experience in enzymology.

We offer competitive salaries, outstanding benefits, attractive equity positions, and the opportunity to make significant research contributions. To apply, please reference Job #97031-SCI and send resume to: **COR Therapeutics, Inc., Human Resources, 256 East Grand Avenue, South San Francisco, CA 94080; Fax: (415) 244-9208. COR is an equal opportunity employer.**

**COR** COR THERAPEUTICS, INC.

## CHAIR

### Department of Medicine The University of Chicago

The Division of the Biological Sciences, which includes The Pritzker School of Medicine, at the University of Chicago, is seeking a Chair of the Department of Medicine. This is a multi-disciplinary department with 180 faculty in the fields of cardiology, dermatology, emergency medicine, endocrinology, gastroenterology, internal medicine, hematology/oncology, infectious diseases, nephrology, pulmonary/critical care, and rheumatology. The Chair reports to the Dean of the Division/Vice-President of the University, and is responsible for providing academic and administrative leadership in clinical care delivery, research and teaching of undergraduate, graduate, post-graduate and medical students. The successful applicant will have an outstanding record of scientific accomplishment and demonstrated teaching and administrative abilities that will qualify him or her for the rank of Professor. The University of Chicago is an Equal Opportunity, Affirmative Action Employer. Please send curriculum vitae and the names of three individuals familiar with your work to: Bruce Gewertz, M.D., Chair, Dept. of Medicine Search Committee, The University of Chicago, 5841 S. Maryland Ave., MC 1000, Chicago, IL 60637-1470. Applications should be submitted by September 30, 1997. E-mail: gewertz@surgery.bsd.uchicago.edu



**THE UNIVERSITY  
OF CHICAGO**

## Associate Editor

An editorial position at **SCIENCE** is available for a Ph.D. scientist with a broad range of interests and research experience in biochemistry, structural biology, and/or neuroscience. We are seeking someone with at least 2 or 3 years of postdoctoral experience in the life sciences and publications in peer-reviewed journals. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a full-time position in either our Washington, DC, or Cambridge, UK, office.

Please send résumé and list of publications with cover letter and salary requirements to:

**Mr. Gregory Stokes**

**AAAS**

**1200 New York Avenue, N.W.  
Washington, DC 20005**



DEAN OF THE COLLEGE OF AGRICULTURAL AND LIFE SCIENCES  
and DIRECTOR OF THE EXPERIMENT STATIONS OF THE  
UNIVERSITY OF WISCONSIN—MADISON

The University of Wisconsin—Madison, one of the largest land-grant universities in the United States, invites nominations and applications for the position of Dean of the College of Agricultural and Life Sciences.

The College of Agricultural and Life Sciences offers graduate and undergraduate instruction in a wide range of specialties keyed to research, business, industry, communications, education, conservation and natural resources, production and technical assistance in national and international programs. The College enrolls approximately 1,000 graduate and 2,100 undergraduate students. Additional information about the College can be accessed at: <http://www.cals.wisc.edu>.

The dean provides leadership to a faculty and professional staff of approximately 1,200 and a budget of approximately \$115 million. The dean serves as director of the Wisconsin Agricultural Experiment Stations and is the chief academic and executive officer of the College with responsibility for personnel, budget, fund raising, community relations, curriculum, academic affairs, and physical facilities. The dean also is responsible for coordinating Cooperative Extension Service programs within the College, but shares administrative and budgetary control with UW-Extension. Many of the biological sciences are in this College; therefore, the search is for a dean with major contributions to shared leadership of the basic and applied biological sciences.

Major qualifications for this position include: a proven record of administrative skills and successful leadership in higher education; a thorough appreciation of the complex issues involving agriculture, environmental, basic and applied life sciences, and economic development; academic accomplishments as a scholar and teacher that meet the standards for a tenured appointment rank of full professor in the University of Wisconsin—Madison faculty; a commitment to maintain and improve quality undergraduate and graduate instruction, research, extension, and public service; and a demonstrated commitment to diversity. The successful candidate will be expected to interact with a wide range of groups including client organizations, alumni, legislators, foundations, and the business community.

The position is available January 1, 1998. Applications and nominations must be received by October 1, 1997 to ensure consideration. Later applications and nominations may also be considered. Applicants should include a current curriculum vitae and a cover letter that addresses how their strengths match the qualifications for the position and what they see as challenges and opportunities for the position. Submit nominations and applications to:

Professor Michael Pariza, Chair  
College of Agricultural and Life Sciences  
Dean Search and Screen Committee  
University of Wisconsin—Madison  
500 Lincoln Drive, 133 Bascom Hall  
Madison, WI 53706  
(608) 262-9337

*The University of Wisconsin—Madison is an Equal Opportunity, Affirmative Action Employer.*



## The Starting Line For The Pursuit Of DISCOVERY...

Promega Corporation, a world leader in Biotechnology, strives to provide a rewarding work experience for our employees and to achieve unparalleled excellence, quality and prosperity in our business. We offer an environment that seeks a balance between work and life activities, reflected in our comprehensive benefit package which includes on-site fitness facilities, daycare and an informal work environment. We are currently seeking a **Senior Research and Development Scientist** to join our Molecular Diagnostic and Genetic Analysis programs.

### R&D Molecular Geneticist

Specialists in nucleic acid manipulation or non-radioactive detection of nucleic acids who have a thorough understanding of genetic disease assays are encouraged to apply. Some experience in *in situ* hybridization using mammalian systems is preferred, but not required. A Ph.D. in Molecular Biology or related discipline, 4+ years' postgraduate experience and a demonstrated record of achievement in the area of molecular genetics or molecular diagnostics employing clinical specimens are required. The chosen candidate will be responsible for evaluation and development of new technologies and applications in these fields.

For confidential consideration, please mail or e-mail your resume, along with salary requirements, to: **Promega Corporation, Job Code 11104JS, P.O. Box 7879, Madison, WI 53707-7879.**  
**E-mail: [hr@promega.com](mailto:hr@promega.com).**  
To find out about other opportunities at Promega please call our **Career Opportunities Line at (800) 356-9526 option 9** or visit our website at **[www.promega.com](http://www.promega.com)**. EOE



**Promega**

## POSTDOCTORAL POSITIONS

The Center for Advanced Molecular Biology and Immunology  
(CAMBI)  
STATE UNIVERSITY of NEW YORK at BUFFALO

is cosponsoring a postdoctoral training program in the area of Structure and Molecular Mechanisms of Ion Channels. This program offers a unique breadth of opportunities to work in a multidisciplinary environment where training occurs between laboratories with diverse fields of expertise, through a series of ongoing research collaborations. Career development is a focus of the program, including help in application for extramural fellowships. Openings are available in:

- Mechanisms Regulating Na<sup>+</sup> Channel Function in *Drosophila*. **Linda Hall**
- AFM as a Tool to Investigate the Structural Basis of Voltage Gating. **Fred Sachs**
- Molecular Mechanisms and Structure of the C-terminal Gating Domain of Connexins. **Bruce Nicholson, Josh Wand & Bill Duax**
- Ligand Binding, Gating & Ion Permeation of ACh & NMDA Receptors. **Anthony Auerbach**
- Genetic, Molecular & Biophysical Characterization of Ca<sup>++</sup> current regulation in *Drosophila*. **Steve Free & Satpal Singh**

Candidates with experience in membrane systems, including protein biochemistry, molecular biology, electrophysiological analysis, or AFM, are particularly encouraged. Salary will be competitive based on experience. SUNY offers a generous program of benefits. *EOE/AA*. Please send CV, a brief description of past accomplishments & future goals, (3) letters of reference, and a cover letter indicating preference for research project by **September 15, 1997** to: **Dr. Bruce Nicholson: CAMBI, 653 Cooke Hall, SUNY at Buffalo, Buffalo, NY, 14260.** [[xen@acsu.buffalo.edu](mailto:xen@acsu.buffalo.edu)]



## Research Scientist, Cross Cancer Institute, Edmonton, Alberta

Applications are invited for a joint position as Research Scientist in Experimental Oncology at the Cross Cancer Institute and Assistant or Associate Professor in the Department of Oncology at the University of Alberta. The Cross Cancer Institute (CCI), operated by the Alberta Cancer Board, and affiliated with the University of Alberta, is the comprehensive cancer treatment and research facility serving Edmonton and Northern Alberta. Academic staff of the CCI are members of the Department of Oncology in the Faculty of Medicine at the University of Alberta. The Department of Oncology consists of more than 80 members and has six Divisions: Experimental Oncology, Medical Oncology, Medical Physics, Palliative Medicine, Radiation Oncology, and Surgical Oncology.

Current research areas in Experimental Oncology include DNA damage and repair, growth and spread of malignancies, tissue injury, gene regulation in neoplasia, tumor suppressor genes, and membrane transporters. Active translational research programs are in neuro-oncology, pediatric oncology, breast cancer, prostate cancer, hematologic malignancies, and gynecologic malignancies. Further information on the research programs of Experimental Oncology can be found at the Department of Oncology's website (<http://www.ualberta.ca/~oncology>).

Applicants require a Ph.D. and/or M.D. and must have an established research program, or have demonstrated outstanding potential to develop a research program, in cellular and molecular biology in an area related to cancer. Areas of particular interest are cell adhesion, migration and metastasis, membrane and protein trafficking, cell cycle, gene expression, tumor suppressor genes or signal transduction. Individuals with expertise in cellular imaging technologies, gene targeting procedures or protein biochemistry are especially encouraged to apply. The successful candidate will be guaranteed three years of salary support, during which time he/she will be expected to obtain career and establishment funding from provincial and/or national agencies. Remuneration will be based on qualifications and 75% of time will be protected for research activities. Laboratory and office space will be in the new 40,000 ft<sup>2</sup> research wing of the Cross Cancer Institute with access to excellent multiuser facilities, including facilities for flow cytometry, confocal and video imaging microscopy, electron microscopy, automated DNA sequencing, protein isolation, recombinant DNA technology, and small animal experimentation.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada although others are encouraged to apply. The Cross Cancer Institute is a smoke-free workplace. Applicants should submit their curriculum vitae, a synopsis of previous and proposed research and a list of three referees by October 15, 1997 to: **Experimental Oncology Search Committee, c/o Dr. Carol E. Cass, Chair of Oncology & Associate Director (Research), Cross Cancer Institute, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2.**

We thank all applicants for their interest, however, only those selected for interviews will be contacted.

## GLOBAL CAREER OPPORTUNITIES

### Norwegian University of Science and Technology Centre for Women's Research ADJUNCT PROFESSOR IN GENDER ASPECTS OF THE SCIENCES

Norwegian University of Science and Technology (NTNU), announces the following vacant adjunct professorship in gender aspects of the sciences.

The position is based in the Centre for Women's Research, NTNU. The Centre is an interdisciplinary unit which is administratively organised directly under the Governing Board (Kollegiet) of the University. The Centre's main objective is to encourage the integration of Women's Studies- and Gender Studies-approaches in all the subject areas represented in the university. The Centre wishes to contribute to the development of such approaches in the sciences. The Adjunct Professorship is one aspect of the efforts being made to achieve this objective. The person appointed will cooperate primarily with others working in the sciences, and will work both at the Centre and at the relevant department.

The person appointed as Adjunct Professor in Gender Aspects of the Sciences must be able to document academic qualifications in a science and also an academic contribution to the promotion of gender perspectives within that subject area. Qualifications in feminist theories of knowledge will be an advantage.

It is very important that the person appointed is able to think innovatively and to take the initiative in cooperation in research, teaching and other developmental work. Particular emphasis will be given to developing teaching and research in the area of gender aspects in the sciences at NTNU.

Adjunct professorships are remunerated at 20% of a full-time position.

Further details about the Professorship can be obtained from professor Kari Melby, tel. +47 73 59 17 28 or senior administrator Agnes Bolsø, tel. +47 73 59 17 27, or by E-mail [karhei@sts.ntnu.no](mailto:karhei@sts.ntnu.no).

Applications are to be sent to the Norwegian University of Science and Technology, Personnel Department, 7034 Trondheim. The application deadline is 15th Oct. 1997. The file number for the position 16/97 is to be clearly stated on the application.

29 August 1997

# BS & MS Careers Advertising Supplement

**Get BS & MS scientists excited about career opportunities at your company or university.**

SCIENCE offers you a unique opportunity to tell the best science students about your employment opportunities and graduate programs in the 29 August 1997 BS & MS special advertising supplement.

### All full-page advertisers receive:

- Prime placement of your ad in the editorial section of the advertising supplement.
- Feature listing in the advertiser index that will appear in the regular recruitment section of SCIENCE and SCIENCE online.
- Free link from your ad featured on our website to your e-mail or website address.
- Placement in a special reprint of the advertising supplement that will be distributed to the nation's top schools for biological and chemical sciences<sup>1</sup> as well as historically high-minority-enrollment institutions.
- Free year-long listing on Academic Connections, the online center for scientific graduate schools.

### All advertisers receive bonus distributions to:

- SCIENCE Career Fair, 5-6 September, MIT, Cambridge, MA
- American Chemical Society Meeting, 8-10 September, Las Vegas, NV.

**Advertising deadline: 12 August 1997**

**To reserve your space:** Call Gabrielle Boguslawski, Recruitment Advertising Manager at (718) 491-1607 or fax (202) 289-6742.

**SCIENCE**  
[www.sciencemag.org](http://www.sciencemag.org)

<sup>1</sup>The nation's top schools for biological sciences, various chemistry disciplines and clinical medicine ranked by the Institute for Scientific Information's *Science Watch* as well as the top 20 schools from *US News & World Report's* Annual America's Best Colleges issue.

**National Institute for Occupational  
Safety and Health  
Health Effects Laboratory Division  
Center for Disease Control  
Department of Health and Human  
Services**

NIOSH has established a new state-of-the-art research facility and research division in Morgantown, West Virginia, to conduct applied and multifaceted laboratory-based research into the diagnosis, mechanisms, and control of adverse health effects due to workplace exposure to hazardous substances or agents.

The Toxicology and Molecular Biology Branch is seeking a:

**Molecular Biologist/Molecular Toxicologist** to direct a research team in the area of occupational lung diseases. Included, but not limited to, topics such as early changes in gene expression associated with fibrosis and association of HL-A genes with lung diseases (e.g., asthma, hypersensitivity, beryllium).

*NIOSH is an Equal Opportunity Employer*

Send résumé to:

**Teresa Cummins  
NIOSH/HELD/TMBB  
1095 Willowdale Road M/S 3014  
Morgantown, WV 26505  
c/o Molecular Biologist/Toxicologist**

**FACULTY POSITION  
for  
MOLECULAR GENETICIST**

Assistant or Associate Professor M.D. or Ph.D., to develop independent research program in aspect of molecular genetics related to diseases prevalent in urban populations and to create medical genetics presence in Department of Medicine. Opportunities to interact with a number of research teams, with established programs in genetic epidemiology, and to develop interdepartmental graduate program in medical genetics. Appointment and space in Bimolecular Medicine Section with potential for joint appointment in basic science department. Competitive salary and start-up package with potential of recruiting additional faculty.

Send CV to **Jerome S. Brody M.D., Vice-Chair Department of Medicine, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118; FAX 617-536-8093; e-mail jbrody@bupula.bu.edu.**

**G**enzyme Genetics is a \$50 million, full service genetic testing laboratory with facilities throughout the U.S.

**MOLECULAR LABORATORY DIRECTOR**

In this key position, you will work with other lab directors, supervisors, technologists, and genetic counselors to coordinate the operations of a high volume DNA laboratory. You will assume responsibility for technical performance of assays, staff training, and continuing education and review and sign-out of patient results. Qualifications: ABMG Certified or eligible Clinical Molecular Geneticist with 2 years' experience. You must be organized, detail-oriented, and capable of working well within a large group. **Dept. BB-A860**

**TECHNICAL SUPPORT SCIENTIST**

You will lead a group responsible for ensuring the optimization of molecular diagnostic assays to meet the needs of a clinical laboratory. This includes coordinating assay transfer and training between R&D and the clinical lab, as well as providing enhancements to existing tests or protocols. Qualifications: MA/MS with 4 years' or Ph.D. with 0-2 years' experience in human molecular genetics. Expertise in assay development using a wide range of molecular biology techniques necessary. ABMG Certification or eligibility in Clinical Molecular Genetics and experience with automation a plus. **Dept. DP-R865**

Genzyme Genetics offers competitive compensation and benefits that include incentive stock options, a 401(k) plan, tuition reimbursement, and extensive insurance plans.

To inquire about the opportunities available, send your resume to: Human Resources, P.O. Box 9322, Framingham, MA 01701. An equal opportunity employer.

**genzyme**  
GENETICS



**CHAIR**

**Department of Genetics and Developmental Biology  
University of Connecticut School of Medicine**

The University of Connecticut Health Center School of Medicine invites applications for the Chair of a newly-created basic science department of Genetics and Developmental Biology. It is intended that the department should have a significant focus in mammalian (including human) genetics but also substantial research on other organisms. The Chair will enjoy an outstanding resource package that includes a significant number of new tenure-track faculty positions, generous start-up funds, and departmental space in a new state-of-the art research building, which is presently under construction with an expected completion date of November, 1998. The ideal candidate should be a leader of a nationally and internationally recognized research program in genetics or developmental genetics and have the academic background and leadership qualities required to ensure vigorous departmental growth. Applicants should submit a complete curriculum vitae by November 1, 1997 to: **Chair, Genetics and Developmental Biology Search Committee, Medical Dean's Office, The University of Connecticut School of Medicine, 263 Farmington Avenue, Farmington, CT 06030-1920. (Search Code 98-14).**

*An Affirmative Action/Equal Opportunity Employer  
M/F/PwD/V*

## POSITIONS OPEN

Un service de recherche approuvé  
par le Comité d'Éthique de la Recherche  
approuvé par le Comité d'Éthique de la Recherche



affilié à l'Université d'Ottawa  
affiliated with the University of Ottawa



CIVIC  
OTTAWA

### POSTDOCTORAL RESEARCH ASSOCIATE

To assist in the planning and supervision of a molecular/cell biology research program in transcriptional regulation. Ph.D. or M.D. with several years of postdoctoral experience in signal transduction molecular biology is sought. Experience in studying transcription regulation is desirable, while direct experience in nuclear hormone receptor action and/or ser/thr kinase function would be an asset. Interested individuals should send a detailed curriculum vitae plus three references immediately to: **Dr. Robert Haché, Ottawa Civic Hospital, Loeb Research Institute, University of Ottawa, 1053 Carling Avenue, Ottawa, Ontario, Canada K1Y 4E9. E-mail: hache@civich.ottawa.on.ca; FAX: 613-761-5036.**

**POSTDOCTORAL AND Ph.D. STUDENT POSITIONS** are available immediately to investigate cell-to-cell communication in plants by using GFP-tagged tobacco mosaic virus cell-to-cell movement (*Science* 270:1983-1985; *Gene* 173:75-79; *Plant J.* 10:1079-1088; *Trends Plant Sci.* 1:412-418) as a model system. Research will be conducted in collaboration with international research groups. Candidates should have some experience in plant tissue culture and a strong background in cell biology and molecular biology/biochemistry. Experience in virology and/or molecular genetics is considered favorably and any experience in microscopy/microinjection is welcomed. Applicants should send immediately a curriculum vitae and names, telephone numbers, and e-mail addresses of three references to: **Dr. Manfred Heinlein, Friedrich Miescher-Institut (FMI), P.O. Box 2543, CH-4002 Basel, Switzerland. E-mail: heinlein@fmi.ch; Telephone: (+41)-61-6978517; FAX: (+41)-61-6973976.**

### POSTDOCTORAL FELLOW

The Geraldine Brush Cancer Research Institute (GBCRI), a division of California Pacific Medical Center (CPMC), seeks a Postdoctoral Fellow. The successful candidate will study the mechanisms by which helix-loop-helix transcription factors affect growth, differentiation, and invasion of normal and transformed breast cells.

Applicants must have a Ph.D. degree and a strong background in molecular biology. Experience in cell biology is a plus. Position will be at least one year in duration.

We offer competitive compensation and an excellent benefits package. Please send curriculum vitae, summary of research experience, and the names of three references to: **Geraldine Brush Cancer Research Institute, ATTN: P. Y. Desprez, Ph.D., 2330 Clay Street Stern Building, San Francisco, CA 94115. Equal Opportunity Employer.**

### POSTDOCTORAL POSITION VIRAL POPULATION DYNAMICS

Position available immediately at the Centers for Disease Control and Prevention, Atlanta, Georgia, for pursuit of independent research in the area of viral population dynamics in HIV-infected persons. Candidates must have advanced training in evolutionary biology, population genetics, or computational biology. Experience in molecular biology laboratory techniques is preferred but not required. Send curriculum vitae or contact: **Dr. Marcia Kalish, CDC, 1600 Clifton Road, N.E., Mailstop D-12, Atlanta, GA 30333. E-mail: mlk3@cdc.gov; Telephone: 404-639-1024.**

**POSTDOCTORAL POSITION** available immediately to join NIH-funded project investigating molecular regulation of cytokine production by inflammatory cells in asthma. Familiarity with cell and molecular techniques essential. Please send curriculum vitae, three references, and summary of research activities to: **J. S. Malter, A4/204-CSC, UWMC, 600 Highland Avenue, Madison, WI 53792. FAX: 608-263-1568; e-mail: js.malter@uwmsg.wisc.hosp.edu.**

**POSTDOCTORAL RESEARCH POSITION** immediately available to study cell-cycle specific phosphorylation of human DNA polymerase delta. Recent Ph.D. with strong background in protein phosphorylation/cell cycle control/DNA replication or repair preferred. Send curriculum vitae and three letters of recommendation to: **Dr. Marietta Lee, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595. An Equal Opportunity Employer.**

## POSITIONS OPEN

### FACULTY POSITIONS OPEN

The AMC Cancer Research Center, located in Denver, Colorado, wishes to hire several senior scientists for its Center for Cancer Causation and Prevention. AMC Cancer Research Center is a national, not-for-profit research institution located at the foot of the Rocky Mountains on the West side of Denver.

Now under the direction of **Dr. Thomas Slaga**, the Center for Cancer Causation and Prevention conducts basic research in the processes leading to an understanding and prevention of carcinogenesis, cancer recurrence, and metastatic spread. Scientists with experience in prostate, colon, lung, skin, breast, and other hormone-related cancers are preferred, as well as scientists capable of running molecular core resources. Minimum qualifications include doctoral-level training, peer-reviewed grants or contracts as PI or equivalent, and a good publications record in peer-reviewed scientific journals.

To apply for these positions, please submit your curriculum vitae to: **Search Committee, c/o Human Resources Department, AMC Cancer Research Center, Lakewood, CO 80214. E-mail: dobbinsl@amc.org; FAX: 303-239-3340.**

### POSTDOCTORAL POSITION IN CELLULAR SIGNALING

Highly motivated and creative individuals are invited to apply for a postdoctoral position in the Department of Pathology and Cell Biology at Thomas Jefferson University. Focus is on organization of calcium signaling at the subcellular level. In particular, the mechanism of calcium control over endoplasmic reticulum/mitochondrial functions and the regulation of IP3 receptor will be investigated (*J. Biol. Chem.* 269:10280, 1994; *Nature* 370:474, 1994; *Cell* 82:415, 1995; *EMBO J* 16:3533, 1997). Position has benefit of learning fluorescence imaging techniques. Background in one or more of the following areas is desirable: biochemistry, electrophysiology, cell or molecular biology. Send curriculum vitae and names of references to: **Dr. Gyorgy Hajnoczky, Department of Pathology and Cell Biology, Thomas Jefferson University, 1020 Locust Street, Room 230C JAH, Philadelphia, PA 19107. FAX: 215-923-2218; e-mail: hajnocz1@jefflin.tju.edu. Equal Opportunity Employer.**

Two **POSTDOCTORAL POSITIONS** immediately available in tumor immunology to study immune response to tumor cells and antibody targeting in murine models. One position will focus on the utilization of transgenic models to study immune tolerance to human tumor-associated antigens and the development of peptide vaccines, engineered antigen presenting cells, and/or recombinant vaccines. The other will develop and examine engineered bifunctional antibodies and/or cytokine fusion proteins for the delivery of boron-rich macromolecules or cytokines to tumor cells. Broad experience in cellular immunology or molecular biology required. Send curriculum vitae, summary of research interests, and the names of three references to: **F. James Primus, Ph.D., Department of Pathology, Vanderbilt University Medical Center, C-3321 MCN, Nashville, TN 37232.**

**POSTDOCTORAL/RESEARCH ASSOCIATE POSITION (PLANT MODELING/PLANT PHYSIOLOGY)** is available immediately to join in development of computer simulation models for sweet potato and peanut grown in controlled environments for future space applications. Design of experiments for validating models and establishing a database on plant response to altered gravity conditions also expected. A Ph.D. in plant or other life sciences with a strong background in modeling preferred. Send résumé: **Dr. Phil Loretan, Campbell Hall, Tuskegee University, Tuskegee, AL 36088. Telephone: 334-727-8129; FAX: 334-724-4451. Women and minorities are encouraged to apply.**

**POSTDOCTORAL OR VISITING SCIENTIST** positions are available to study funded projects in the molecular mechanism of plant-microbe interactions. One project will focus on virulence gene regulation and function in *Agrobacterium tumefaciens* and the other on plant transformation and regeneration. Previous experience in similar fields is highly preferred. Please submit your curriculum vitae, names and telephone numbers of three references to: **Shouguang Jin, Ph.D., Department of Microbiology, Slot 511, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205. E-mail: jinshouguang@exchange.usams.edu; FAX: 501-686-5359.**

## POSITIONS OPEN



### POSTDOCTORAL RESEARCH POSITION SIGNAL TRANSDUCTION AND IONIZING RADIATION

Medical College of Virginia at Virginia Commonwealth University has a postdoctoral position available to study the potentiation of ionizing radiation-induced cell death in breast and squamous carcinoma cells by specific modulation of signal transduction pathways. Applicants should have a strong background in cellular biology and biochemistry. This position is funded by a scholarship from The V Foundation. See Schmidt-Ullrich *et al.*, *Oncogene* September, 1997. Please send cover letter stating interests, curriculum vitae with addresses of references to: **Paul Dent, MCV/VCU, Department of Radiation Oncology, P.O. Box 980058, Richmond, VA 23298-0058. Telephone: 804-828-8778; FAX: 804-828-6042; e-mail: pdent@gems.vcu.edu.**

Virginia Commonwealth University is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION

Position immediately available to study the role of mammalian HMG-I(Y) architectural transcription factors in controlling chromatin structure/function and gene expression. Highly motivated individuals with a Ph.D., or equivalent degree, and a background in either protein biochemistry, nucleic acid chemistry, or molecular biology are encouraged to apply. More information available on the Internet at: <http://www.wsu.edu:8080/~reevelab>. Applicants should send, FAX, or e-mail a curriculum vitae, a summary of research experience, and three reference letters to: **Dr. Raymond Reeves, Department of Biochemistry/Biophysics, Washington State University, Pullman, WA 99164-4660. Telephone: 509-335-1948; FAX: 509-335-9688; e-mail: reevesr@mail.wsu.edu. An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY

A postdoctoral position is available to study replication, genetics, and pathogenesis of bovine respiratory syncytial virus using reverse genetic techniques. Particular interest is directed toward genetic engineering of attenuated vaccine strains. Background in molecular biology is essential. Appointment may be up to three years. Please send curriculum vitae and names of three references to: **Dr. Siba K. Samal, Regional College of Veterinary Medicine, 8075 Greenmead Drive, University of Maryland, College Park, MD 20742. FAX: 301-935-6079.**

**POSTDOCTORAL POSITION** for NIH-funded studies of physiological and molecular mechanisms involved in control of the cerebral circulation, including investigation of altered gene expression of cyclooxygenase, nitric oxide synthase, and ion channels following anoxic stress. Ph.D. or M.D. required. Background in molecular biology is preferred but not essential. Send curriculum vitae and names of three references to: **Dr. David Busija, Department of Physiology and Pharmacology, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. FAX: 910-716-0237. Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL POSITION

Research Fellow position available to study signal transduction and gene transcription control mechanisms in T lymphocyte development. Minimum requirements include Ph.D. and/or M.D. degrees and significant research experience in cell signaling and/or molecular biology. Please send résumé and names of three references to: **David J. McKean, Ph.D., Department of Immunology, 321 Guggenheim Building, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.**

**POSTDOCTORAL POSITION** available immediately to participate in a functional genomics project. Expertise in molecular biology, mouse genetics, and computer-assisted laboratory automation preferred. Interested individuals should send a curriculum vitae and the names of three references to: **David W. Threadgill, Ph.D., Department of Cell Biology, Vanderbilt University Medical Center, 1161 21st Avenue South, Nashville, TN 37232-2175. Vanderbilt is an Equal Opportunity Employer.**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF BACTERIAL PATHOGENESIS

Two postdoctoral positions are available immediately in the Department of Microbiology at the University of Colorado Health Sciences Center to work on structure and function of cholera toxin and on characterization of the diphtheria toxin repressor and its regulon in *Corynebacterium diphtheriae*. A Ph.D. in microbiology, molecular biology, genetics, biochemistry, cell biology, or a related field is required. Research facilities and professional environment are excellent. Salary is commensurate with training and experience. Submit curriculum vitae, bibliography, and names of three professional references to: **Dr. Randall Holmes, Department of Microbiology, Campus Box B-175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

Two postdoctoral research positions in **NEUROENDOCRINOLOGY/NEUROSCIENCE** available immediately at The Salk Institute for Biological Studies. Research focuses on the central nervous system control of the HPA and HPG axes in wild type and knockout rodents. Studies include basic molecular techniques, measurement of protein secretion, regulation of gene transcription and expression, identification of novel transcripts, and immunocytochemistry. Preference will be given to candidates who are independent, highly motivated, and experienced with several of the above methodologies. Send curriculum vitae, statement of research interests, and names of three references to:

**Dr. Catherine Rivier**  
The Salk Institute for Biological Studies  
10010 North Torrey Pines Road  
La Jolla, CA 92037

A **POSTDOCTORAL POSITION** is available immediately to study the mechanism of HIV-1 integration. Projects focus on pre-integration complexes isolated from infected cells and recombinant integrase/DNA. The position will in part be funded through an NIH training grant, which requires U.S. citizenship or residency.

Send curriculum vitae and three letters of recommendation to: **Dr. Alan Engelman, Division of Human Retrovirology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115.** The Dana-Farber Cancer Institute is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the molecular mechanisms of retinal angiogenesis. Ph.D. in biomedical sciences is required. Significant experience with molecular biological and cellular techniques is desirable. Please send curriculum vitae with names of three references to: **Dr. John S. Penn, Director, Arkansas Center for Eye Research, Jones Eye Institute, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205; E-mail: jpenn@acer.uams.edu.** The University of Arkansas is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study RA and BMP-induced apoptosis during cardiovascular development in chick embryos and the mechanism by which RA induces BMP2 ([website: www.cas.usf.edu/biology/rogers.html](http://www.cas.usf.edu/biology/rogers.html)). Experience in chick embryology or molecular biology preferred. Send a curriculum vitae and three reference letters to: **Melissa Rogers, Ph.D., Biology, LIF136, University of South Florida, 4202 East Fowler Avenue, Tampa, FL 33620.**

Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodations, call: 813-974-2623.

**POSTDOCTORAL POSITION** available for exploring cellular processes and molecular mechanisms of the immune system using transgenic/knockout animal models. A strong background in molecular biology and/or immunology is preferred. Please send curriculum vitae, statement of research interest, and names of three references to: **Jianzhu Chen, Center for Cancer Research, MIT, E17-128, 40 Ames Street, Cambridge, MA 02139. E-mail: jchen@mit.edu.**

**POLYMER OR ORGANIC CHEMIST.** Postdoctoral research with interdisciplinary team. Molecular recognition, metal complexes for carbohydrate recognition and sensing. **Website: <http://www.che.caltech.edu/groups/fha>.** Send curriculum vitae and names of three references to: **Professor F. H. Arnold 210-41, California Institute of Technology, Pasadena, CA 91125.** Caltech is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available at University of Michigan, Ann Arbor to study pathogenesis of serious Group A streptococcal infections. Start fall/winter 1997 for up to three years. NIH funded. Opportunities exist for industry interactions. Contact: **Neil Barg, Division of Infectious Disease, Telephone: 313-769-7100 ext. 5815; e-mail: nbarg@umich.edu.**

### NIH TRAINING PROGRAM IN REPRODUCTIVE BIOLOGY CENTER FOR STUDIES IN REPRODUCTION THE UNIVERSITY OF MARYLAND

**PREDOCTORAL AND POSTDOCTORAL POSITIONS** are available to study various aspects of female reproduction including: fetal-placental endocrinology (**Eugene Albrecht**), steroid synthesis and action in breast (**Angela Brodie**), mechanisms regulating prolactin secretion (**Karen Gregerson**), ovarian and uterine angiogenesis (**Robert Koos**), mechanisms of brain sexual differentiation (**Margaret McCarthy**) and GABAergic control of GnRH release (**Michael Selmanoff**). Applicants must have U.S. citizenship. Contact either the individual faculty or: **Dr. Eugene Albrecht, Department of Ob/Gyn and Reproductive Sciences, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201. E-mail: ealbrech@ummc001.ummc.ab.umd.edu.**

### POSTDOCTORAL POSITION VOLLUM INSTITUTE

Applications are invited for a postdoctoral position in the laboratory of **Dr. John Scott** to study functional aspects of kinase and phosphatase targeting in neural cultures. Expertise in electrophysiology and basic molecular biology techniques is required. Qualified candidates must possess an M.D. or Ph.D. degree.

Please submit a letter of interest, curriculum vitae, and three letters of reference to: **Dr. John Scott, Vollum Institute, 3181 S.W. Sam Jackson Park Road, L-474, Portland, OR 97201.** Equal Opportunity Employer.

**POSTDOCTORAL POSITION** immediately available in the Center for *In Vivo* Microscopy in pulmonary imaging of small animals. Current projects focus on applying proton and hyperpolarized gas magnetic resonance imaging (MRI) to examine pulmonary pathology. Animal research experience with pulmonary imaging is required. Knowledge of MRI desirable. Send curriculum vitae in text format to: **Laurence Hedlund, Ph.D., Department of Radiology, Box 3808, Duke University Medical Center, Durham, NC 27710. E-mail: pdoc@orion.mc.duke.edu.** Duke University is an Equal Opportunity/Affirmative Action Employer.

### CAMECO MS NEUROSCIENCE RESEARCH CENTER, UNIVERSITY OF SASKATCHEWAN

**POSTDOCTORAL POSITIONS** available in 1998 to study cellular responses in nervous system pathology. Experience in molecular biology, *in situ* hybridization, or EM preferred. Appointments contingent on external funding. Send résumé and names of three references by September 1 to: **Dr. David J. Schreyer, CMSNRC, Room 5800, Saskatoon City Hospital, 701 Queen Street, Saskatoon, Canada, S7K 0M7. E-mail: <http://www.usask.ca/anatomy/cmsnrc.html>.**

**POSTDOCTORAL POSITIONS** in immunology immediately available for recent Ph.D. or M.D. interested in cellular and molecular aspects of lymphocyte development, repertoire establishment, and differentiation into memory. Current research areas include B cells (**Hardy**) and CD4 T cells (**Hayakawa**). Please forward curriculum vitae and names of two or three references to: **Dr. Kyoko Hayakawa or Dr. Richard R. Hardy, Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** Equal Opportunity Employer.

### POSTDOCTORAL POSITION

Position available to study gene regulation during development of the human T cell surface protein CD8. Send curriculum vitae and names of three referees to: **Dr. Paula Kavathas, Departments of Laboratory Medicine, Genetics, and Section of Immunobiology, Yale University, 333 Cedar Street, New Haven, CT 06520-8035. FAX: 203-737-4111; e-mail: kavathas@beaker.med.yale.edu.**

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS IN NEUROBIOLOGY.** Two postdoctoral positions are available for studies of nicotinic acetylcholine receptors (AChRs). Both require experience in cell and molecular biology. These positions involve making mAbs to characterize native and cloned AChRs, treating experimental autoimmune myasthenia gravis with bacterially-expressed AChR subunits, cloning and expressing AChR subunits in permanent mammalian cell lines, and *in vitro* mutagenesis and expression of AChR constructs in several systems. Send curriculum vitae and name, address, telephone, FAX, and e-mail addresses of three references to: **Dr. Jon Lindstrom, Department of Neuroscience, Medical School of the University of Pennsylvania, Philadelphia, PA 19104-6074. FAX: 215-573-2015; e-mail: jslkk@mail.med.upenn.edu.**

**POSTDOCTORAL RESEARCH POSITION** immediately available to study regulation of mammalian protein phosphatase-1. Recent Ph.D. with strong background in enzymology/molecular biology and interests in protein phosphorylation/dephosphorylation preferred. Send curriculum vitae and three letters of recommendation to: **Dr. Ernest Lee, Chairman, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595.** An Equal Opportunity Employer.

### PROTEIN PURIFICATION SEPTEMBER 17 TO 19, 1997

Hands-on laboratory and theory are used to teach the essentials of protein purification. Each participant will use theoretical knowledge gained in lectures to create useful purification plans that will then be used to isolate and characterize active biomolecules from complex biological sources. **Biotechnology Center, Utah State University, Logan, UT, 84322. Telephone: 801-797-3504; FAX: 801-797-2766.**

## CONFERENCE

**THERAPEUTIC ANTIBODY TECHNOLOGY 97;** September 21 to 24, 1997; Holiday Inn-Union Square, San Francisco; Organizers: **J. Larrick, D. Burton.** Sponsor: **Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 415-694-4996; FAX: 415-694-7717; e-mail: paimm@netgate.net.** See *Science* May 2, 1997 for speakers.

## MARKETPLACE

Our Symbol Means  
**QUALITY ANTIBODIES**  
Custom MABs/PABs/Hybridoma  
Many other services & products available  
Call for your new catalog today!  
1-800-824-8540 or Fax 1-916-758-6307  
Antibodies Incorporated  
Davis, CA

Circle No. 10 on Readers' Service Card

### Fast DNA Sequencing

from NBI/Genovus

\$0.95/bp, double stranded

1-8kb in 1-3 weeks

800/747-4362 or 612/550-2012

NBI E-mail: [nbi@natbio.com](mailto:nbi@natbio.com) Web: <http://www.natbio.com>

Circle No. 29 on Readers' Service Card

### Protein Express

Protein Expression and Purification

> Recombinant or Native

> 10 mg to 1 g

> Strain construction

> Methods

development

For more

information,

call

(410)-455-6319.



Athena Environmental

[athenaES@concentric.net](mailto:athenaES@concentric.net)

Circle No. 20 on Readers' Service Card

# MARKETPLACE



**MORE PRODUCTS  
ON PREVIOUS PAGE**

- Automated DNA sequencing
- Custom DNA/RNA synthesis
- Protein/peptide synthesis & sequencing
- Spectroscopy/calorimetry
- Mass spec services

**Commonwealth Biotechnologies, Inc.**  
*Your one stop biotech shop*

LET US QUOTE YOUR SPECIAL PROJECTS  
Comprehensive biotech services. For information please call:

1-800-735-9224

Visit our web page at:  
[www.cbi-biotech.com](http://www.cbi-biotech.com)

Fax: 804-648-2641

E-mail: CBI@i2020.net

Circle No. 7 on Readers' Service Card



**Custom Polyclonal Antibodies**  
BEST PRICES • BEST ANIMALS  
**ANIMAL PHARM SERVICES**  
INCORPORATED  
(800)808-0550

Circle No. 13 on Readers' Service Card

**Opioid Receptor Antibodies**  
Delta, Mu & Kappa Isoform Specific  
• ELISA • Westerns  
• Cytochemistry  
**Research & Diagnostic Antibodies**  
Toll Free **R&D**® Fax  
**800-858-RDAb** **Ab** **510-262-9127**

Circle No. 18 on Readers' Service Card

**PEPTIDE + ANTIBODY**  
**HIGH QUALITY \$1200**  
 $\beta$ -AMYLOID(1-40) \$200/mg  
**ANASPEC**  
800-452-5530 // service@anaspec.com

Circle No. 12 on Readers' Service Card

**NEW for 1997**

Cell Systems

Serum-Free Human Cell Systems  
Vascular Smooth Muscle Cells

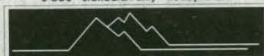
1-800-697-1211

[www.cellsystems.com](http://www.cellsystems.com)

Circle No. 8 on Readers' Service Card

# MARKETPLACE

Custom Primers - 48 hr turnaround: \$1.00/base  
5 ODU - Standard Purity - Ready to Use



**ransom hill bioscience, inc.**

<http://www.ransomhill.com>

no setup - no minimum - no baloney!

internet: visla@ix.netcom.com fax: (800) 597-8509

Circle No. 6 on Readers' Service Card

**XX IDT**  
INTEGRATED DNA TECHNOLOGIES, INC.

**Custom DNA Synthesis**

**95¢ / Base**

100 nmole Scale

No Set-up Fee

Column Purified

24 Hour Shipping

Ask about our  
*group discount programs!*

E-mail: [orders@idtdna.com](mailto:orders@idtdna.com)

Web Site: <http://www.idtdna.com>

Fax: 1-319-645-2921

Phone: 1-800-328-2661

Circle No. 3 on Readers' Service Card

CUSTOM **DNA** SYNTHESIS

PURE & SIMPLE

- Superb Technical Support

- Impeccable Quality

- World's Fastest Service

- Cap Gel & TOF Mass Spec

\* Some restrictions apply. Please call for details.

**\$1<sup>19\*</sup>**  
per base  
\$10 setup  
50 nmole  
scale

**MIDLAND**

STILL THE UNDISPUTED #1 CUSTOM DNA SYNTHESIS SERVICE

THE MIDLAND CERTIFIED REAGENT COMPANY

Phone 1-800-247-8766 FAX 915-694-2387

email [mcrc@oligos.com](mailto:mcrc@oligos.com)

Circle No. 4 on Readers' Service Card

**Multipin™ Peptide  
Synthesis Kits**

Synthesize from one to hundreds of peptides  
simultaneously. Make your own libraries!

Wide range of options available. Please call for details:

**CHIRON TECHNOLOGIES**

US: East Coast Tel: 800 633 8161 Fax: 800 424 3970

US: West Coast Tel: 800 644 1866 Fax: 800 655 1866

International Tel: +61 3 9565 1111 Fax: +61 3 9565 1199

Europe Tel: +33 141 38 9400 Fax: +33 141 38 9409

Circle No. 15 on Readers' Service Card

# MARKETPLACE

**EASY WEB ORDERING**

<http://www.biosyn.com>

[biosyn@onramp.net](mailto:biosyn@onramp.net)

**PRIMERS**  
PURIFIED

NO SET UP FEES  
**65¢**  
/base

50 nmole  
Full QC  
Guaranteed Quality  
Just order > 400 bases  
at the same time

**PEPTIDES**  
FREE MASS SPEC

NO SET UP FEES  
**15<sup>00</sup>**  
/residue

10-20 mgs  
8-15 residues  
Shipped in 5 days

**ANTIPEPTIDES ANTIBODY  
PRODUCTION SERVICES & MORE**

**BIO SYNTHESIS**

TEL: 800-227-0627 FAX: 972-420-0442

Circle No. 5 on Readers' Service Card

**QUALITY CUVETTES!!!**

Inexpensive Electroporation Cuvettes  
Each sterile package includes a free  
pipette for easy sample removal!

**BTX**

1-800-289-2465

FAX: 619-597-9594

Circle No. 17 on Readers' Service Card

**ATLANTIC ANTIBODIES**

Custom Immunization Service

- Custom Polyclonal Antiserum
- Normal Serum
- Quality Control Testing
- Research Support Services

TEL 207-856-6151 FAX 207-856-6751

Circle No. 11 on Readers' Service Card

**DNA Sequencing**

as low as \$40/run

Single & Double Stranded DNA  
Plasmid or PCR DNA  
Fast Turn Around

1-800-OLIGOS-1

<http://www.ana-gen.com>

**ANA-GEN**

Ana-Gen Technologies, Inc.

Circle No. 14 on Readers' Service Card

**Custom DNA**

Purified & Delivered in 48 Hours

**\$1.20 per base • Purified**

<http://www.resgen.com>

**Research Genetics, Inc.**

1-800-533-4363

Circle No. 2 on Readers' Service Card

# A TASTY REDUCTION IN THE PRICE OF ZUCCHANA.



## SUCH A DEAL ON DNA. JUST 60¢ A BASE.

Attention shoppers. You don't have to settle for second best, to save a bunch. Buy the Zucchana, and you get both price and quality. No compromises.

Operon now makes custom DNA on the 0.05  $\mu$ mole scale for just 60¢ per base, with a \$5 set-up fee. Larger scales are also very affordable.

We offer a complete range of modifications, so you can enjoy "one-stop-shopping" for all your custom DNA needs. And at Operon, you can order by phone, fax, e-mail or just visit our

web site at [www.operon.com](http://www.operon.com). Shopping for custom DNA has never been easier.

Fast turnaround, high purity, unconditional

guarantee, and great prices. No wonder Operon is the market leader in custom oligos. So if you're in the market for DNA, put the Zucchana on your shopping list today! Operon. Anything is possible.



# OPERON

### Custom DNA Synthesis Prices

Scale	Price/base	Set-up
0.05 $\mu$ mole	\$0.60	\$5.00
0.2 $\mu$ mole	\$1.20	\$10.00
1.0 $\mu$ mole	\$2.40	\$20.00

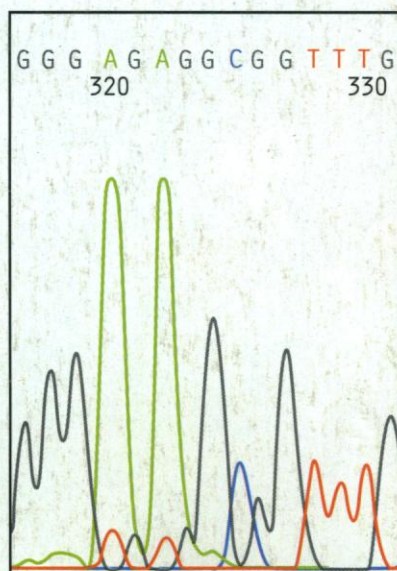
WORLD'S LEADING SUPPLIER OF SYNTHETIC DNA

Phone: (800) 688-2248 or (510) 865-8644 • Fax: (510) 865-5255 • e-mail: [dna@operon.com](mailto:dna@operon.com) • Web: <http://www.operon.com>  
©1996 Operon Technologies, Inc., 1000 Atlantic Avenue, Alameda, CA 94501, USA. NIHBP 263-00033233

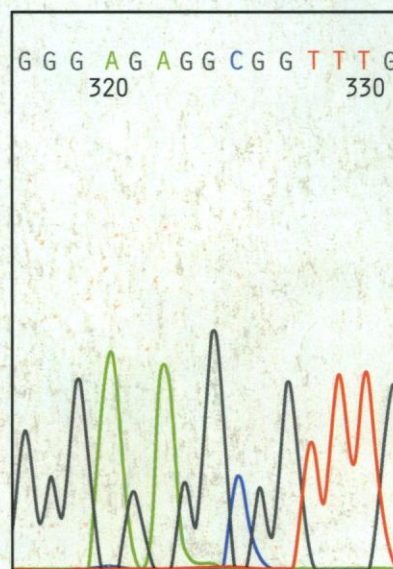
Circle No. 35 on Readers' Service Card

New dRhodamine dye terminators

# Our best DNA sequencing chemistry just got better.



*Conventional dye terminators*



*New ABI PRISM dRhodamine dye terminators*



Compared to conventional dye terminators, the new ABI PRISM™ dRhodamine terminators provide cleaner signal and more uniform peak patterns. As a result, you get greater basecalling accuracy for every sequencing application, including heterozygote determination.

A set of terminators based on four new dichlororhodamine dyes makes the difference. Combined with AmpliTaq® FS enzyme, they give you less background noise, with even peaks and a significant improvement in the "weak G after A" pattern characteristic of conventional rhodamine dye terminators.

Of course, some things are exactly the same. You still get the one-tube convenience of our previous dye terminator kits. And the new dyes were developed specifically for ABI PRISM 377, 377XL and 310 systems, so performance is guaranteed on all those platforms.

See what a difference the accuracy of ABI PRISM dRhodamine dye terminators can make in your sequencing. To order in the U.S., call 1-800-345-5224. Outside the U.S., contact your local sales representative. On the Internet, visit [www.perkin-elmer.com/ab](http://www.perkin-elmer.com/ab).

**For 377, 377XL  
and 310 systems.**

## **PE** Applied Biosystems

Europe: Langen, Germany Tel: 49 (0)6103 708 301 Fax: 49 (0)6103 708 310

Japan: Tokyo, Japan Tel: (0473) 80-8500 Fax: (0473) 80-8505

Latin America: Mexico City, Mexico Tel: 52-5-651-7077 Fax: 52-5-593-6223

Australia: Melbourne, Australia Tel: 1 800 033 747 Fax: 61 3 9212-8502

PE Applied Biosystems PCR reagents are developed and manufactured by Roche Molecular Systems, Inc., Branchburg, New Jersey, U.S.A.



The PCR process is covered by patents owned by Hoffmann-La Roche, Inc. and F. Hoffmann-La Roche Ltd. Perkin-Elmer is a registered trademark and ABI PRISM and its design, PE Applied Biosystems, PE, and Applied Biosystems are trademarks of The Perkin-Elmer Corporation. AmpliTaq is a registered trademark of Roche Molecular Systems, Inc. PE Applied Biosystems products are developed and produced under the quality requirements of ISO 9000.

Circle No. 24 on Readers' Service Card