

# NEW PRODUCTS

## APOPTOTIC DNA LADDER

### Genotech

For more information call 314-645-2050 or **circle 147** on the Reader Service Card

The Apoptotic DNA Ladder kit contains all the reagents necessary for the preparation of a nucleosomal DNA ladder. The protocol involves cell lysis and removal of cellular debris followed by precipitation of the DNA. The nucleosomal DNA is detected after standard 1.8% agarose gel electrophoresis.

## VOLUME VISUALIZATION SOFTWARE

VoxBlast volume-rendering software now includes a RealTime version that works with a volume-rendering accelerator card that eliminates long waits by processing 500 million voxels per second. A general-purpose rendering application for research, VoxBlast

### VayTek

For more information call 515-472-2227 or **circle 148** on the Reader Service Card

accepts stacks of registered two-dimensional (2D) images and creates three-dimensional (3D) projections from any viewpoint using an alpha-blending or surface-rendering algorithm. It includes tools for pseudo-coloring, transparency, lighting, 2D and 3D measurements, 2D slice viewing, cropping, seed fill, movie loop generation, filters, palette editing, surface extraction, polygon rendering, and more.

## TINY TRANSILLUMINATOR

The Nano-Lite tiny transilluminator is suitable for mini-gels, for light laboratory use, or as a personal desktop transilluminator for a quick read of gels. Safety features include a four-sided ultraviolet blocking cover, thermal cutoff to prevent overheating, and automatic ultraviolet safety cutoff switch. Its dimensions are 7.5 inches long, 4.5 inches wide, and 4 inches high.

### Ultra-Lum

For more information call 562-529-5959 or **circle 149** on the Reader Service Card

## PARTICLE SIZER

The Sysmex SD-2000 ultra-high resolution particle counter and sizer delivers high-performance analysis from 1  $\mu\text{m}$  to 120  $\mu\text{m}$  by combining electrozone sensing with hydrodynamic focusing and sheath flow technology. Hydrodynamic focusing with sheath flow directs particles through the center of the measurement aperture to ensure that uniform electrical signals are produced for the generation of counting and sizing data.

### Malvern Instruments

For more information call 508-480-0200 or **circle 150** on the Reader Service Card

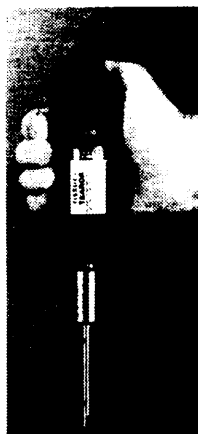
Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement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

# Homogenizers and Cell Disrupters

## Tissue • Tearor™

### Small Sample Lab Homogenizer

- Rotor-stator homogenizer with 4-10 mm dia. probes for samples as small as 0.5 mL.
- Powerful 30,000 rpm motor completes homogenization in a few seconds.
- Hand held or can be stand mounted.
- Easy to clean.
- Price includes both motor and one probe.



**Order No.**  
B-985370

**Description**  
Tissue-Tearor

**Price**  
\$595.00

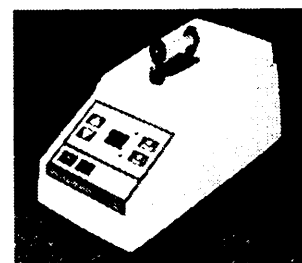
## Cell Disrupter

### and Grinding Mill for Small Samples

The MINI-BEADBEATER™ violently agitates a sealed microrcentrifuge tube containing cells or tissue and thousands of minute glass beads. Even resistant samples like yeast spores or fibrous tissue are COMPLETELY HOMOG-ENIZED IN 1-3 MINUTES.

The non-foaming method preserves enzymes, nucleic acids and organelles and no aerosols are formed. Ideal for PAGE, PCR APPLICATIONS and diagnosis using ANTIBODIES or OLIGONUCLEOTIDE PROBES.

- SIMPLE TO USE
- DISPOSABLE VIALS
- RAPID AND EFFICIENT
- POWERFUL



**Order No.**  
B-3110 BX

**Description**  
Mini-Beadbeater

**Price**  
\$695.00

## BioSpec Products, Inc.

P.O. Box 788, Bartlesville, OK 74005-0788 • Phone/Fax (800) 617-3363  
<http://www.biospec.com> • [info@biospec.com](mailto:info@biospec.com)

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Signal  
Transduction...

It's not  
as complicated  
as you think.

## Science's new online tool for exploring signal transduction

The Signal Transduction Knowledge Environment is a new electronic resource of up-to-date information in the fast-moving field of cell signaling.

### Come see what's new:

**Protocols** Mathias Mann and colleagues discuss the use of mass spectrometry to study signaling pathways.

Michael Lenardo, Roger Tsien, and colleagues present new techniques for FRET analysis of protein interactions in live cells.

**Q&A discussion forums** Interested in apoptosis signaling? Don't miss the chance to interact with moderator David Vaux.

**Perspectives and Reviews** Notch signaling as explained by Helmut Kramer, complete with animation that shows the receptor in action.

Silvia Corvera explains the role of protein domains in the localization of signaling proteins to the cell membrane.

Jeffrey Wrana discusses how cellular responses to TGF- $\beta$  depend on crosstalk with other signaling pathways.

**Full text access** to the latest published research has expanded to include over 40 journals.

### Coming Soon—More Connections Map.

This unique resource provides automatically generated maps of signaling pathways that reflect the latest information submitted by leading authorities into a specialized database. Just click on pathway components or relations to access detailed information.

Science's  
**stke**

Signal Transduction Knowledge Environment  
a product of *Science* and Stanford University Libraries

[www.stke.org](http://www.stke.org)



# DNA samples

DNA samples from a

## global collection network

*We can meet your sample needs from inventory or by exercising our Global Collection Network on your behalf. We are adding samples, disease states, and collection sites on a regular basis.*

### GenomicsCollaborative

*has a growing collection of  
DNA and serum matched to  
phenotypic data from  
patients with high prevalence  
diseases. These samples are  
available to support  
your research.*

**Some examples of samples we currently have, and are actively collecting, in the following disease states are:**

- Cardiovascular disease (hyperlipidemia, hypertension, AMI stroke)
- Cancers (Breast, Ovarian, Colon, Prostate, Leukemia, Lymphoma)
- Diabetes
- Asthma
- Renal failure

### All material is:

- Collected under IRB approved protocols and compliant with GCP
- Processed and stored under GCP conditions

*For information regarding our current inventory of samples and disease states please contact us.*

## GenomicsCollaborative

1-877-GENOMIX, extension 248 (877-436-6649)  
email: [getsamples@DNArepository.com](mailto:getsamples@DNArepository.com)  
[www.DNArepository.com](http://www.DNArepository.com)

## Classified Advertising

### UNITED STATES

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Jill Steinberg (Northeast Sales)  
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Fax: 202-289-6742

E-mail: science\_displayads@aaas.org

#### Line Classified Advertising

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Christina Geiger  
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E-mail: science\_classifieds@aaas.org

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www.sciencecareers.org

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#### Display, Line, and Online Classified Advertising

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Fax: +44 (0) 1223 326 532

E-mail: european\_ads@science-int.co.uk

**Ad Materials:** Send to: *Science International*, Advertising Dept., Bateman House, 82-88 Hills Road, Cambridge CB2 1LQ, United Kingdom

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### POSITIONS OPEN



Texas Agricultural Extension Service  
THE TEXAS A&M UNIVERSITY SYSTEM

#### FACULTY POSITIONS IN ANIMAL GENOMICS

The Department of Animal Science invites applications for two tenure-track positions at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level with a 12-month academic appointment. The successful candidate will be responsible for conducting an extramurally funded and nationally/internationally recognized research program in animal genomics relevant to the livestock industry, including QTL mapping and detection, EST sequencing, identification of SNPs within EST sequences, EST mapping with high-throughput SNP genotyping in a reference population, positional cloning, and gene expression analysis. These positions will require teaching graduate-level courses in population genetics, quantitative genetics, and molecular biology, as well as support of activities of the Center for Animal Biotechnology and Genomics and the Intercollegiate Faculty of Genetics. The appointees will be expected to collaborate/cooperate with other faculty to study genetics and molecular biology of nutrient metabolism, tissue development, and various physiological functions. The successful applicants will contribute to a team effort in animal genomics and interact with industry partners to commercialize discovered technologies. The successful candidates will report to the head of the Animal Science Department and through him/her to the College of Agriculture and Life Sciences and Texas Agricultural Experiment Station. The successful senior applicant may be appointed Section Leader for Animal Breeding and Genetics to serve as administrative liaison with the department head. Modern laboratory facilities and excellent equipment and animal resources for animal genomics research and teaching are available. The successful candidate will have (1) a Ph.D. in a biological science with emphasis in animal genomics, (2) demonstrated ability to conduct research in animal (livestock) genomics, (3) strong records of publications in the scientific literature and extramural grant support for research, (4) ability to teach and to develop a strong graduate program in animal genomics, and (5) a record of performance required to qualify for appointment to rank of Associate Professor or Full Professor with tenure at Texas A&M University. Salary will be commensurate with training and experience.

Closing date for applications: Applications received by October 1, 2000, are assured consideration. Send applications that include detailed curriculum vitae, reprints of publications within the past two years, a two-page statement of research and teaching interests relative to the position, and three letters of reference from individuals who can provide a critical evaluation of the applicant's qualifications for the position to:

**Dr. Bryan H. Johnson, Professor and Head**  
Department of Animal Science  
133 Kleberg Center  
Texas A&M University  
College Station, TX 77843-2471  
Telephone: 979-845-1543; FAX: 979-845-6433  
E-mail: b-johnson@tamu.edu

*The Texas A&M University System Agriculture Program is an Equal Opportunity Employer.*

**RESEARCH ASSOCIATE POSITION** is available immediately to join a multidisciplinary team investigating vascular endothelial gene expression and thrombosis. The successful candidate must have a Ph.D. and experience in cDNA cloning and gene expression analysis. Experience in tissue culture and transfection is highly desirable. For consideration, please submit curriculum vitae and brief description of prior research experience to the following address: **Thomas F. Slaughter, M.D., Box 3094, Duke University Medical Center, Durham, NC 27710; e-mail: slaug003@mc.duke.edu.** *Duke University is an Equal Opportunity Employer.*

### POSITIONS OPEN

#### COMPUTATIONAL STRUCTURAL BIOLOGY OR BIOINFORMATICS UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Molecular Biology and Biochemistry invites applications for a **TENURE-TRACK FACULTY POSITION** in the area of computational structural biology or bioinformatics at any level. The successful candidate will be expected to establish an active research program using computational methods to address fundamental problems in but not limited to macromolecular structure and function. There is substantial campuswide interest in computational biology, including an Institute for Genomics and Bioinformatics; a BioMedical Engineering Center; a computer science Ph.D. program in informatics in biology and medicine; an interdisciplinary Ph.D. program in protein engineering; a large medical school; and national centers for neuroscience and cancer, including the Informatics Center for the NCI Cancer and Genetics Network. The city of Irvine is the largest planned community in North America and has numerous parks, greenbelts, and open spaces. Geographically it is located close to the long golden beaches of the "California Riviera," midway between Los Angeles and San Diego. On-campus faculty housing is available. Interested applicants should submit curriculum vitae including the names of at least three references and brief outline of future research plans by September 1, 2000, to: **Dr. Hartmut Luecke, 3205 BioSci II, University of California, Irvine, CA 92697-3900. E-mail: hudel@uci.edu.** *University of California, Irvine, is an Equal Opportunity Employer committed to excellence through diversity.*

#### POSITIONS IN FEMALE REPRODUCTIVE BIOLOGY

The University of Missouri, Columbia, will fill two tenure-track positions in female reproductive biology: (1) **MOLECULAR BIOLOGIST** with interest in biochemical endocrinology that might include signal transduction; (2) **MOLECULAR BIOLOGIST, CELL BIOLOGIST, or DEVELOPMENTAL BIOLOGIST** with interests in some aspect of early embryonic development in mammals.

The successful applicants will join an interdepartmental group representing eight departments and four colleges. Candidates must have postdoctoral experience. Appointments will be 80% research and 20% teaching in the candidate's area of expertise. Appointees will contribute to the mission of the College of Agriculture, Food, and Natural Resources and Food for the 21st Century program. Applications are due September 1, 2000, or when suitable candidates are found. Applications should include a letter describing area of interest and future plans, curriculum vitae, and names of three to five persons who can be contacted for reference. Send applications to: **Dr. H. Allen Garverick, 163 Animal Sciences Center, 920 East Campus Drive, University of Missouri-Columbia, Columbia, MO 65211-5300.** *The University of Missouri is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from qualified women and minorities.*

#### PATENT AGENT TRAINEES

MBM & Co. is an Ottawa-based patent and trademark firm specializing in all aspects of intellectual property law with particular expertise in high technology, including information technology and biotechnology. MBM invites you to join us to draw upon and expand your knowledge of science by working with inventors to obtain patents for cutting-edge technology. MBM offers a unique relaxed yet professional environment for team players. Positions are available for Patent Agent Trainees with a Ph.D. in the following areas: chemistry, biochemistry, molecular biology, engineering, and computer technology. Interested applicants should submit their résumés to: **Betty Seltzer, Marusyk Miller & Swain/MBM & Co., 270 Albert Street, 14th Floor, Ottawa K1P 5G8 ON. Telephone: 613-567-0762; FAX: 613-563-7671; e-mail: bseltzer@mbm-law.com.**



## Ortho-Clinical Diagnostics

a Johnson & Johnson company

Ortho-Clinical Diagnostics, a Johnson & Johnson company, is a leading provider of high-value diagnostic products and services for the global health care community. For more than half a century, the company has been committed to providing accurate, timely, and cost-effective solutions for screening, diagnosing, monitoring and confirming diseases.

OCD has recently created a new division of Molecular Diagnostics, which is currently recruiting key personnel required to develop and implement research and business strategies. The division aims to become a leader in the field of molecular pathology and in the development of molecular diagnostics to support the safe and effective use of drug and surgical therapies. The new business represents an exciting venture by J&J and is currently structured as an incubator company. Early employees will therefore enjoy the opportunity to work with the General Manager to shape the direction of the initiative.

### Business Development

Two positions are available for individuals with an interest in the development and commercialization of a new generation of molecular diagnostics. The positions will be responsible for identifying and developing collaborations with groups within J&J and within the broader community. The focus of the positions will be to identify additional targets as candidates for clinical diagnostics in key market areas, or in developing access to diagnostic technology required to measure and monitor genetic variation.

The successful candidates will have a strong background in science, medicine or engineering. In addition, experience in an aspect of business development such as in intellectual property management, licensing, strategic marketing or financial analysis is essential. The successful candidate will be independent, must be able to think creatively and have well-developed communication and organizational skills. Finally, the candidate should have the ability to work in an exciting and rapidly evolving business. Vacancies are to be filled immediately and to be located in New Brunswick, NJ. (Reference #MD006/7)

### Senior Scientist

A position is available immediately for a scientist to establish and manage a research group focusing on the generation and use of genetic signatures as tools to understand the progression of cancer. The group will be located in La Jolla, CA and will have access to J&J's core DNA microarray facility. The successful candidate will have 3-5 years post-doctoral experience with a strong background in genomics, cancer biology or molecular pathology. The position requires an independent individual with a strong drive and well-developed communication and organizational skills. (Reference #MD008).

Please submit your resumes referencing these job numbers to:

**Ortho-Clinical Diagnostics,  
100 Indigo Creek Dr.,  
Rochester, NY 14626-5101**

email at [SGodfrey@ocdus.jnj.com](mailto:SGodfrey@ocdus.jnj.com).

*OCD is an Equal Opportunity Employer*

### DIRECTOR, RESEARCH & DEVELOPMENT

■ 451600

Minimum position requirements include a Ph.D. in the physical or biological sciences, 10 years experience in developing immunoassays preferably in Drug Monitoring, a demonstrated record of achievement in the field of Diagnostics and experience leading interdisciplinary group efforts. Reporting to the Vice President of US Research and Development in our newly created Indianapolis, Indiana research center, the successful individual will lead a group of 35 scientists in the Research and Development of immunologically based reagents for laboratory testing in a Drug Monitoring area. Additional responsibilities will include Product Support, Strategic Planning, the ability to manage several complex projects simultaneously and a strong sense of the Market and customer needs.



#### Who to contact

We offer an excellent compensation and benefit program including 401(k). Qualified candidates should send a resume, including salary requirements, to: **Roche Diagnostics, job title and reference#, 9115 Hague Road, Indianapolis, IN 46250**, or e-mail to [roche@rpc.webhire.com](mailto:roche@rpc.webhire.com). Principals only please. Roche is committed to providing equal opportunity to a diverse workforce. If your area of interest is not addressed in the above position, Roche has many other opportunities ranging from clerical to scientific and welcomes receiving your resume.

**Roche**

Roche is a world leading research-based health care organization with principal businesses in pharmaceuticals, diagnostics, vitamins, fragrances and flavors. Roche products and services address prevention, diagnosis and treatment of diseases, thus helping people live better lives.

At Roche Diagnostics Corporation we're using our Vision and Values to make a difference. Based in Indianapolis, we are the North American headquarters for Roche's diagnostics business. We are comprised of a dynamic force of individuals who together are enhancing the well being of people and their quality of life. Those with a competitive spirit and commitment to Roche and its customers will find an unmatched environment offering development opportunities and personal rewards.

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

**Committed**  
to speed, growth and innovation  
Committed to your **Future**



**Avigen, Inc.** is a leader in the development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited & acquired diseases. Our continued growth has created the following openings in our Alameda, CA facility for experienced and self-motivated professionals to join our expanding Team.

#### **DEVELOPMENT SCIENTISTS**

As part of an ongoing expansion of our Development Group, we are seeking highly qualified scientists to fill key roles in the development of recombinant AAV vectors for human clinical trials. Successful candidates should have a strong background in virology/viral vectors, mammalian cell culture, vector purification, and process development and optimization, scale-up, and validation. This position will play a key role in designing and implementing formulation and stability studies of viral vectors.

A good working knowledge of relevant FDA regulations and cGMP required. Candidates must have a PhD degree, 3+ years of relevant experience, and excellent communication skills.

#### **BUSINESS DEVELOPMENT MANAGER**

Exciting opportunity for the right individual to be responsible for analyzing and assessing potential business opportunities. In conjunction with senior management, will evaluate technologies and make recommendations based on risk, market potential, and other business considerations. Will also be responsible for developing licensing objectives and assist in licensing negotiations.

Minimum requirements are a strong scientific background, preferably Ph.D. level, experience with licenses and technical assessments. Some travel required.

#### **SCIENTIST/GROUP LEADER - AAV VECTOR CORE FACILITY**

To support Avigen's expanding Research and Development activities, we are seeking a key individual to lead a Core Vector Production/Testing Facility with the mandate to provide purified AAV vectors for in vitro and in vivo studies.

The successful candidate must have a PhD degree in a relevant scientific discipline, 5+ years experience with virus/viral vector production (cell culture, vector purification) and characterization, and relevant supervisory experience. This individual will lead a group consisting of a minimum of 6 Development Associates, report to the Director of Development, and will interact closely and knowledgeably with R&D scientific staff and external collaborators.

#### **REGULATORY AFFAIRS SPECIALIST\***

Exciting opportunity for a dedicated professional to support the Vice President of Regulatory Affairs. Responsibilities include, but are not limited to, preparation and coordination of all aspects of regulatory submissions, close interface with project members, participation in project meetings and establish and maintain regulatory files.

Qualified candidates must have a Bachelor degree in a scientific discipline, 1 - 2 years of experience in regulatory affairs, and 5 - 7 years of experience in the pharmaceutical industry. Position requires an individual who has good interpersonal and organizational skills, excellent communication skills, demonstrated ability to work well independently and in a team environment and a high attention to detail.

#### **DEVELOPMENT ASSOCIATES\***

We are seeking experienced Development Associates to play key roles in a core facility for AAV vector production and characterization. A background in virology/viral vectors, and experience in cell culture and virus purification required.

Candidates must have a BSc or MSc degree, and 3+ years relevant experience. Industry/cGMP experience a plus.

#### **QUALITY CONTROL SPECIALIST/ANALYST\***

We are seeking a key individual to be responsible for conducting routine and non-routine analysis of raw materials, in-process, finished products and stability samples according to SOPs, developing, validating/qualifying, and improving assays for better efficiency and consistent results.

Position requires a BS in Microbiology, Biology, Molecular Biology or Chemistry; 3-5 years biotech/pharmaceutical work experience; and familiar with SDS-PAGE, Western/Southern blot, cell-based potency assays, LAL, DNA hybridization, protein assay, and GLP/GMP. HPLC and/or QPCR a plus. Solid computer skills (MS Excel and Word). An organized, detail-oriented professional with excellent teamwork skills is ideal.

#### **FORMULATION SCIENTIST**

As part of an ongoing expansion of our Development Group, we are seeking a highly qualified scientist to fill a key role in the development of recombinant AAV vectors for human clinical trials.

The successful candidate will have a strong background in the optimization of formulation and stability of biotechnology products, ideally viral vectors. A good working knowledge of relevant FDA regulations and cGMP required. Experience in vector purification process optimization and scale-up a plus. Candidates must have a PhD, 3+ years of relevant experience, and excellent communication skills.

We offer competitive salaries, benefits paid in full by the Company, stock options, 401(k), growth potential and an exciting opportunity to work with a dynamic team focused on exploring the impact of gene therapy on selected human diseases.

To apply, email/send/fax resume, **SPECIFYING POSITION OF INTEREST**, to: **Avigen, Inc., Human Resources, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: [sdelph@avigen.com](mailto:sdelph@avigen.com), fax: (510) 748-7155.** EOE - Principals Only - NO CALLS.

\*No relocation authorized.

## ENVIRONMENTAL MICROBIOLOGIST

The Westinghouse Savannah River Company, whose professional environment broadens your career horizons using state-of-the-art technology, operates the Savannah River Site for the United States Department of Energy. SRS missions include defense programs, non-proliferation, environmental clean-up and restoration, waste management, research and development, and technology transfer. We are currently recruiting an Environmental Microbiologist to join a multi-disciplinary team of Chemists, Engineers and Microbiologists in the Environmental Biotechnology Section of the Savannah River Technology Center.

**The successful senior scientist will discover, develop and implement biological processes for the bioremediation of organics, metals and mixed wastes in soils and groundwater. Research opportunities also exist in the areas of biofouling, biocorrosion, wastewater biotreatment and biodegradation. Strong candidates will have experience and career interests in environmental microbiology, microbial ecology, molecular biology and bioremediation. Excellent written and oral communication skills are mandatory.**

**Candidates should be nationally/internationally recognized experts in microbial ecology, environmental biotechnology and bioremediation. Candidates must also have an impressive record of publications and presentations, field/deployment experience and a proven ability to obtain competitive research funding. A history of teamwork, successful scientific collaboration and technical leadership is expected. PhD degree in Microbiology or Biochemistry is required.**

**Additional positions may be available for entry-level Microbiologists and/or mid-career Researchers with appropriate experience and educational background.**

### U.S. CITIZENSHIP AND ABILITY TO OBTAIN DOE CLEARANCE IS REQUIRED.

Our location offers a mild climate with easy access to some of the Southeast's most attractive cultural, recreational and educational resources (Atlanta, Augusta, Charlotte, Columbia, Charleston, Hilton Head, Savannah).

Salary is commensurate with your training and experience. Our highly regarded benefits program includes relocation assistance. For confidential consideration, please send resume and salary history, to: Mr. Lamar Cherry, Westinghouse Savannah River Company, Employment, Building 719-4A, Aiken, SC 29808, or FAX (803) 725-8781, Email: willie.bell@srs.gov

WESTINGHOUSE SAVANNAH RIVER COMPANY AN EQUAL OPPORTUNITY EMPLOYER



## GENETICS/GENOMICS



The Department of Physiology and Pharmacology at the Oregon Health Sciences University invites applications from individuals pursuing new opportunities in emerging areas of biomedical research, and employing research strategies that bridge traditional disciplinary boundaries. We seek to fill positions at the level of Assistant Professor and invite applications from individuals with postgraduate training in Genetics whose research programs would complement existing programs in ion channel biology, receptor structure and function, neurobiology, cardiovascular biology, and reproductive biology; and who could contribute to emerging programs in functional genomics and pharmacogenetics. We seek individuals who will develop an independent research program and contribute to the teaching of Medical Students and Graduate Students, and who are excited by the prospect of an interdisciplinary environment in which molecular and integrative studies are ongoing in a single academic department (<http://eluviiis.ohsu.edu/PhysPharm/>). OHSU offers a highly interactive research environment and superb opportunities for career development in the spectacular setting of the Pacific Northwest.

Applications or inquiries may be directed to:

**David C. Dawson, Ph.D. ([dawsonda@ohsu.edu](mailto:dawsonda@ohsu.edu))**  
Professor and Chair, Faculty Search (GG)  
Department of Physiology and Pharmacology (L334)  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098

## Department of Biomedical Sciences and Pathobiology Virginia-Maryland College of Veterinary Medicine



Two tenure-track calendar-year Assistant/Associate Professor positions are available January 1, 2001 as follows:

**Physiology/Pathophysiology.** Preference will be given to candidates working in neural, cardiovascular, gastrointestinal, reproductive, or endocrine systems.

**Molecular Immunology.** In addition to the appointee's own research, collaboration in ongoing departmental programs in vaccine development, autoimmunity, immunotoxicology, and/or cancer immunology is strongly encouraged. The appointee is also expected to interact with faculty of the Pharmaceutical Engineering Institute, which is focused on transgenic animals and plants. Participation in the Bioinformatics Institute is also possible.

Applicants must have a Ph.D. and post-doctoral experience. In addition, the D.V.M., M.D., or equivalent medical degree is preferred. The appointees will be expected to establish independent and extramurally funded research programs. Though primarily research focused, mentoring of graduate students and participation in the graduate program is expected. Some participation in the D.V.M. instructional program is also anticipated for the Physiology position.

Send a letter of application, description of research goals, curriculum vitae, and names of 3 references to either **Immunology Search** or **Physiology Search**, Department of Biomedical Sciences and Pathobiology, College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061.

Individuals with disabilities desiring accommodations in the application process should notify **Dr. Ludeman Eng, at the address above, or by calling (540) 231-4652, or by e-mail at [laeng@vt.edu](mailto:laeng@vt.edu), or the Virginia Telecommunications Relay Service (800) 828-1120.** Review of applications will begin on August 8, 2000 but applications will be accepted until suitable candidates are identified.

*Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities.*

# Ground-breaking Research. Advanced Technology. Dedicated People.

*At Axys Pharmaceuticals, our scientific staff employs state-of-the-art biotechnology techniques to develop therapeutic treatments for cancer. Our Preclinical Sciences Department is expanding, and we currently have opportunities for Scientists and Research Assistants. If you are committed to quality and excellence, bring your skills and expertise to Axys Pharmaceuticals and play an integral role in our success.*

## Scientist

### Formulation/Preformulation & Pharmacokinetics

This individual will be responsible for preformulation and formulation studies and in vivo pharmacokinetic studies. S/he will apply her/his knowledge of drug delivery and physical chemistry to formulate new chemical entities for pharmacokinetic and pharmacodynamic evaluation. Also, s/he may perform preformulation studies on new chemical entities, explore new drug delivery approaches, analyze pharmacokinetic data, and participate in project teams. S/he may also have the opportunity to be involved in metabolism and/or absorption studies. The experimental skills involved in drug delivery such as solubility, stability, identifying degradation products, measuring ionization constants, analytical quantitation such as HPLC, as well as kinetic modeling are required. Knowledge of physical pharmacy or physical organic chemistry is required. Familiarity with high-throughput absorption screening techniques such as cell-based assays or other in vitro methods is a plus. The candidate has a Ph.D. in pharmaceutical sciences, chemistry, biochemistry, or a related field, with 0-5 years of industrial experience. (Job Code: 00-041-SCI)

## Scientist

### Drug Metabolism

The Department of Preclinical Sciences is seeking an individual with background in drug metabolism to establish in vitro models and high-throughput methods. This individual will study the pharmacokinetics and metabolism of drug candidates in small animals and various in vitro systems, allowing a better prediction of in vivo metabolism and cross-species extrapolation. A combination of the following training and skills are preferred: (1) experience working with in vitro/in vivo systems to assess metabolism, (2) drug analysis in biological matrices (HPLC), and (3) kinetic/dynamic modeling. Ph.D. with 2-4 years of experience in drug metabolism of small molecule therapeutics. A degree in pharmacy, biology, chemistry, biochemistry, or related discipline required. Post-doctoral experience and prior management experience preferred. (Job Code: 00-037-SCI)

## Research Assistant

### Drug Metabolism

This individual will study the pharmacokinetics and metabolism of drug candidates in small animals and various in vitro systems. Experience with high-throughput screening techniques and drug analysis in biological matrices (HPLC) preferred. Small animal surgery a plus. BS/MS with 2-4 years of experience in drug metabolism of small molecule therapeutics. A degree in pharmacy, biology, chemistry, biochemistry, or related discipline preferred. (Job Code: 00-036-SCI)

## Research Assistant

### Formulation & Preformulation

This individual will design and prepare the necessary dosage forms for in vivo pharmacokinetic and pharmacodynamic studies. S/he will conduct formulation and preformulation studies, such as solubility, stability, identifying degradation products, and measuring ionization constants, as well as quantitative RP-HPLC analysis of new molecular entities. This individual will learn current formulation practices and strategies, as well as exciting new formulation approaches. This individual will also have the opportunity to analyze pharmacokinetic data and to participate in project teams. The candidate has a BS/MS in chemistry, biochemistry, pharmaceutical sciences or a related field, with 0-5 years of laboratory experience. (Job Code: 00-035-SCI)

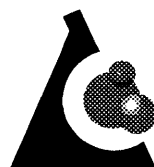
## Research Assistant/ Animal Tech

### In Vivo Pharmacokinetics

This individual will assist with the conduct of in vivo pharmacokinetics studies. S/he will dose rats and mice by various routes (IV, IP, SC, PO), perform cannulation surgeries, collect samples at specified timepoints and prepare samples for LC/MS/MS analysis. Assist with animal husbandry as needed, and willing to work flexible hours when necessary. BS in Pharmacokinetics, Pharmacology, Biology or related field, or AA degree (AHT) and applicable experience. Previous experience with in vivo pharmacokinetics procedures desirable. AALAS certification and prior pharmacokinetic data analysis a plus. (Job Code: 00-034-SCI)

Besides attractive salaries and outstanding benefits, we offer the opportunity to be part of a dynamic environment that fosters professional & personal growth. Please forward your resume/cv to:

Axys Pharmaceuticals  
HR Department  
Attn: (Job Code)  
180 Kimball Way  
South San Francisco, CA 94080  
Email: [human\\_resources@axyspharm.com](mailto:human_resources@axyspharm.com).  
We look forward to hearing from you. EOE



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## Senior Scientists

### Protein Engineering Job # 252

Ambion seeks several individuals to join a group generating proteins with novel functions. Experience in the following areas a plus: Directed Evolution, Procarvotic Expression, Protein Structure-Function, or Phage Display

### In situ Hybridization Job # 253

We are looking for an individual with in situ hybridization and histology experience to work on the development of new products in this area.

### RNA Methodology Job # 254

We are always looking for talented individuals with experience related to any aspect of technologies related to RNA. Experience with arrays or differential display a plus.

Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Senior Scientists have considerable freedom in developing their own research programs and participate in a collegial team environment that drives the development of new ideas. They typically have a small research group, NIH small business grants and write papers and patents. We feel that Ambion's diverse and interactive R&D group is unique in the industry and has been important to our continuing success.

## Manufacturing - QC

### Manufacturing Development Scientist Job # 255

Ambion seeks a creative scientist who can add depth to our manufacturing group. An MS in molecular biology or related field, Ph.D. is preferred. A diverse background in RNA related techniques and the innate ability to tinker and troubleshoot is highly desirable. Previous experience in biotech manufacturing is a plus. This individual will provide leadership for our manufacturing development group and interact well with both R&D and manufacturing scientists.

### Senior Production Associate Job # 251

Ambion seeks a talented scientist to lead a production group in the manufacture of products in the areas of high-throughput gene analysis, arrays, in situ hybridization and cDNA synthesis. A BS in molecular biology or related field, MS or Ph.D. preferred, and strong experience in RNA related techniques are required. This individual must have proven supervisory skills and interact well with both R&D and manufacturing scientists.

### Quality Control Manager Job #256

Ambion seeks a dynamic scientist to head our Quality Control Department. All scientists with backgrounds in molecular biology, lab management and quality systems will be considered.

## Postdoctoral and Research Associate positions are also available.

**Ambion is a rapidly growing biotechnology company that focuses on applications related to RNA.** It is located in Austin, the state capital, on the edge of the "Texas Hill Country", which provides rivers, lakes, scenic rolling hills and a comfortable climate. Austin is home to the main campus of the University of Texas and offers an exciting array of restaurants, music and cultural events. Austin is widely recognized as one of America's most livable cities and was recently listed as a "runner up" in Money Magazine's "Best Big Cities in America". See [http://www.money.com/money/depts/real\\_estate/bestplaces/austin.html](http://www.money.com/money/depts/real_estate/bestplaces/austin.html)

We offer a stimulating work environment, competitive salary and benefits, 401(K) plan, employee stock option and bonus plans. Equal Opportunity Employer. M/F/D/V

Reply to: Ambion, Inc., 2130 Woodward St., Austin, TX 78744-1832  
Ph: (512)651-0200 Fax: (512)651-0201 Email: [resumes@ambion.com](mailto:resumes@ambion.com)

**Ambion®**  
THE RNA COMPANY™

## Applications Scientist - Biosciences

Labsystems, a leading innovator in optical biosensor and microplate technologies, has two immediate openings for application scientists with 0-2 years post degree experience. One scientist will be based on the East Coast (preferably the Boston area), the other in the San Francisco Bay area.

The ideal candidate will possess a Ph.D. in Biochemistry, Molecular Biology or a related discipline. Experience with conventional biomolecular binding assays, kinetic calculations, and equilibrium/affinity measurements is desirable. A background in protein crosslinking/labeling, nucleic acid purification, and fluorescence/luminescence would be helpful. The selected individual will also possess excellent communication and computer skills, and be willing to travel approximately 30% of business days.

The application scientist acts as the technical liaison between Labsystems and our customers. Main responsibilities include demonstration of biosensor and microplate instrumentation, customer training and application support pre- and post-sale, presentation of instrument theory, data analysis methods and applications, and contribution to the preparation of new applications and technical publications.

Labsystems offers a challenging and stimulating opportunity to work with a wide range of researchers throughout North America. For consideration, please either e-mail or fax your resume and desired work location to: [penny.tenaglia@thermobio.com](mailto:penny.tenaglia@thermobio.com) or fax 508-541-0447.

 **Labsystems**

## PHARMACOLOGY FACULTY POSITION

The University of Health Sciences College of Osteopathic Medicine invites applications for an **ASSISTANT OR ASSOCIATE PROFESSOR** faculty position that is available immediately. Under the direction of the Chair of Pharmacology, this individual will teach medical pharmacology. Qualified candidates will have a Ph.D. in Pharmacology or a Pharm.D. degree and postdoctoral teaching and research experience.

The candidate filling this position must have a strong interest in and commitment to teaching medical students, research, University service and/or other scholarly activities. Faculty members are encouraged to participate in University research activities, which currently include programs in cancer therapeutics and prevention, signal transduction and protein chemistry. We are looking for positive team players with exemplary professional and personal characteristics. All inquiries will receive a written response and submitted information will be forwarded to Patricia Hentosh, Sc.D., Chair, Department of Pharmacology.

Salary and rank will be commensurate with experience and qualifications. We offer an outstanding benefits package including an exceptional retirement plan. Applications will be reviewed until successful candidates are identified. Please send a letter of interest, curriculum vitae, a statement of teaching philosophy, a statement of research interests, and the names, addresses, and telephone numbers of three references to:

**Susan M. Schmidt**  
Assistant Director of Human Resources  
the University of Health Sciences  
1750 Independence Ave.  
Kansas City, MO 64106-1453  
E-mail: [cenyeart@alum.uhs.edu](mailto:cenyeart@alum.uhs.edu)  
(Word format only, please)  
Phone: 1-800-234-4847  
Fax: 816.283.2285  
[www.uhs.edu](http://www.uhs.edu)



the University of Health Sciences

EOE



# Help shape the future of Pharmaceutical Innovation.

The outstanding success of Schering-Plough stems from a basic commitment to scientific research & development. In order to discover, and expedite the movement of new compounds into development, R&D expenditures have steadily increased since the early 1980's, with those in 1999 exceeding \$1 billion. At Schering-Plough Research Institute, our scientists are identifying and developing new drugs that directly target the causes of disease and may offer significant improvements over older treatments that only address disease symptoms. New tools and techniques are being used that help speed the selection and development of new therapeutic candidates that may have potentially fewer side effects, better efficacy and a greater likelihood of gaining marketing approval.

We invite candidates who meet any of the following requirements to join the exciting growth environment at Schering-Plough Research Institute's campuses in Northern New Jersey, approximately one hour from New York City.

## IMMUNOLOGY

### Postdoctoral Fellow - Viral Chemokines

MD or Ph.D. and background in immunology required. Study the biological role of viral chemokines and perform targeted mutagenesis of orphan GPCRs and focus on the analysis of several transgenic models, including the recently described model for Kaposi's sarcoma (JEM 191:445-454, 2000). **Job Code: XHHTM0016**

### Research Associate - Genomics

BS or MS with 2-5 years of experience in molecular biology/cloning required. Quantitative PCR experience is a plus. General computer software experience required. Will participate in gene expression analysis of transgenic mice and provide genomic cloning, targeting vector and transgenic cloning support to the group. **Job Code: XHXDD00GV**

### Research Associate - Autoimmune Diseases

Will participate in projects directed toward discovery of potential therapeutics for autoimmune diseases such as arthritis, psoriasis and multiple sclerosis. BS or MS in Biology or related discipline with experience in conducting in vivo models of autoimmune disease as well as isolating and characterizing leukocytes, flow cytometry, immunohistochemistry, histology, tissue culture and/or general immunological methodology (e.g., cytokine ELISAs and cell proliferation assays). **Job Code: XHXDD0002**

## MOLECULAR GENETICS

### BS Research Associate - Functional Genomics

BS and some experience in molecular biology, genetics, or functional genomics. Experience with infectious micro-organisms or fungal model systems is a plus. Proven scientific track record desired; recent graduate with relevant lab experience will be considered. **Job Code: XHXDD0121**

## TUMOR BIOLOGY

### BS/MS - Research Associate

Contribute to the discovery and assessment of novel cancer therapeutics. BS or MS in Biochemistry, Molecular Biology or related discipline with 3-5 years of experience in: enzymology, receptor binding, molecular biology techniques, mammalian cell culture and/or gene expression including quantitative PCR. Research experience related to growth factor receptors or prostate cancer is an asset. **Job Code: XHXDD00YW**

## ALLERGY

### BS/MS Research Scientist

Diverse and varied dimensions in research and discovery. BS or MS with strong background in Biology, Physiology and/or Pharmacology, and in vivo modeling and in vitro modeling skills required. Cell and molecular biology techniques (e.g. cell culture, cell-based assays, ion influx measurement, ELISA, RIA, Western Blot, PCR, etc.) are desired. Knowledge of electrophysiology and expertise in computer based data handling are preferred. **Job Code: XHXDD0128**

## BONE BIOLOGY

### Ph.D. Scientist

Ph.D. in Biochemistry or Molecular Biology with 6-8 years of experience. Osteoclast and osteoblast biochemistry and/or molecular biology is essential. Functional genomic experience is highly desired. **Job Code: XHXDD00JA**

## PHARMACOGENOMICS

### BS/MS Research Associate

BS or MS with 4+ years of lab experience in Molecular Biology and Genomic methodologies to support SNP discovery efforts in drug target candidate genes. Ideal applicant will have expertise in PCR and automated DNA sequencing as well as familiarity with laboratory automation and various mutation detection methods including dHPLC and SSCP. Experience with data analysis essential. **Job Code: XHXDD00JS**

## CHEMICAL RESEARCH

### Ph.D.- Research Associate (Protein Engineering/Biophysical Methods)

Provide expertise in expression and purification of large quantities of protein for X-ray and NMR analysis, and perform biophysical characterization of protein-ligand interactions. Ph.D. in Biochemistry, Molecular Biology or related life science discipline with 3 to 6 years experience (including post-doc). Background in cloning, expression in E. coli and Sf9 cells, site specific mutagenesis, protein purification, protein characterization, ligand binding and enzymology a must. Experience with protein purification for X-ray crystallization/NMR, fluorescence, Circular Dichroism, BioCore, radio ligand binding, calorimetry and protein unfolding are highly desirable. **Job Code: XHXDD0122**

## DRUG METABOLISM

### Ph.D. Senior Scientist - (Receptor/Reporter Gene Assay Research)

Design and set up receptor/reporter gene assays in cultured cell lines. These assays will be used for screening new chemical entities for potential induction of liver drug metabolizing enzymes. Ph.D. in Molecular Biology, Biochemistry, Pharmacology or related life science discipline with up to 2 years of relevant post-Ph.D. experience. Background to include lab experience with cell culture, cDNA cloning, reporter gene assays and other biochemical and/or molecular biology techniques. Experience with cell culture of primary hepatocytes is desirable. **Job Code: XHXDD0077**

## SCIENTIFIC INFORMATION SYSTEMS

### Senior Scientific Systems Analyst - Structural Chemistry

MS or Ph.D. in Chemistry and experience in development, maintenance, support of computational chemistry software required. Develop, maintain and support vendor and proprietary research software for computer aided drug design, protein NMR and protein crystallography. **Job Code: XHXRI9938**

### Senior Scientific Systems Analyst - Bioinformatics

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of computational biology software required. Develop, maintain and support vendor and proprietary research software for bioinformatics. **Job Code: XHXRI2016B**

### Senior Scientific Systems Analyst - Drug Metabolism

MS/Ph.D. in Life Science and experience in development, maintenance, support of scientific and lab automation software. Experience in information systems regulatory compliance a must. Develop, maintain and support vendor and proprietary research software to provide lab automation and data analysis for Drug Metabolism and Pharmacokinetics research. **Job Code: XHXRI2016A**

### Senior Scientific Systems Analyst - Discovery Research

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific and lab automation software. Develop, maintain and support vendor and proprietary research software for lab automation and data analysis in support of a variety of pharmaceutical discovery research and technology programs. **Job Code: XHXRI2016D**

### Senior Scientific Systems Analyst - Discovery Informatics

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific and lab automation software. Develop, maintain and support vendor and proprietary research software for lab automation and information management in support of pharmaceutical discovery research. **Job Code: XHXRI2016C**

### Scientific Systems Project Manager - Drug Safety and Toxicology

MS or Ph.D. in Life Sciences and experience in project leadership/supervision for the development, maintenance, and support of vendor and proprietary research software for complex scientific systems. Experience in software validation and information systems regulatory compliance a must. **Job Code: XHXRI9913**

### Project Managers, Scientific Information Systems

BS or MS in Computer Science, Physical Science, Engineering, Mathematics or related field with 8+ years experience in the development and support of scientific systems (3+ years vendor software management experience; 3+ years project leadership and/or supervisory level experience; and 3+ years software validation and regulatory compliance experience) required. Will have project oversight and management responsibility for vendor-developed and in-house custom software in support of Drug Safety and Toxicology. **Job Code: XHXRI9912**

**For additional information or to apply online, visit our web site at [www.sp-research.com](http://www.sp-research.com)**

We offer an excellent compensation package that includes relocation assistance, a competitive salary, a cash incentive bonus program, profit sharing and 401(k). Comprehensive benefits include: group insurance and retirement programs, flexible work arrangements, education assistance, and health and wellness programs. If you meet our qualifications and can thrive in a fast-paced and collaborative environment, please submit your resume, which must include the Job Code for position of interest, to: E-mail: [sprisc@isearch.com](mailto:sprisc@isearch.com), Mail: Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300. 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.



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*Celltech Chiroscience, Inc., a leading biotech company located near Seattle which uses its diverse, state-of-the-art genomics and target validation technologies to discover, develop and bring to market novel medicines for improved healthcare, has an immediate opportunity.*

### SCIENTIST – DISCOVERY BIOLOGY

Working in an interdisciplinary team environment, this individual will be responsible for providing expert technical direction in immunopathology. The successful candidate will conduct state-of-the-art tissue examinations for both gene and protein expression and assist in the selection and validation of appropriate protein targets using both human and murine systems. In addition, this individual will interact with clinicians outside the company for coordination of additional expertise and for human tissue acquisition. The position is a leadership role within the group and requires the ability to evaluate and develop new methodologies, including image analysis and laser capture microdissection.

This position requires a M.S. or Ph.D. or equivalent in Pathology or a related discipline. The ideal candidate will have strong capabilities in all investigative aspects of Pathology (preferably in an immunological context), a demonstrated capability in routine histological techniques (including IHC and ISH), 5+ years related experience and strong computer skills. Good written and verbal communication skills and previous leadership experience are essential.

*For information on other open positions, please see our job postings at [celltechgroup.com/celltech\\_chiroscience/index.html](http://celltechgroup.com/celltech_chiroscience/index.html), under Recruitment.*

*Celltech Chiroscience, Inc. offers competitive compensation & benefits & the chance to join one of science's most exciting fields – gene discovery! For consideration, please fax, mail, or email your resume to: Human Resources, Job Code DBScience700, Celltech Chiroscience, Inc., 1631 220<sup>th</sup> St. SE, Bothell, WA 98021 Fax: 425-489-8018, Email: [careers@chiroscience.com](mailto:careers@chiroscience.com)*



**St. Jude Children's  
Research Hospital**  
ALBAC - Danny Thomas, Founder

### Postdoctoral Research Associate

A newly funded position is available immediately to study mechanisms of mammalian checkpoint control regulated by the ATM and ATR protein kinases. The project will focus on characterizing the function of RAD cell cycle checkpoint genes using biochemical and genetic approaches. Candidates should possess a Ph.D. and have a strong background in molecular biology and biochemistry. Qualified applicants should submit a cover letter, their curriculum vitae, and names of three references to:

**Christine Canman, Ph.D.**  
Department of  
Hematology/Oncology  
St. Jude Children's  
Research Hospital  
332 N. Lauderdale Street  
DTRT 1034  
Memphis, TN 38105  
[www.stjude.org](http://www.stjude.org)  
eoe m/f/d/v

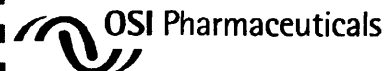
### M.D. & Ph.D. Scientists

The Ruy V. Lourenco Center for the Study of Emerging and Reemerging Pathogens is located at the New Jersey Medical School (Newark) Campus of the University of Medicine and Dentistry of New Jersey. The Center is recruiting M.D. and Ph.D. Scientists with a research focus on infectious agents. Current institutional interests are in *Mycobacterium tuberculosis*, Human Immunodeficiency Virus, Hepatitis C, *Helicobacter pylori*, Lyme Disease and antimicrobial resistance. Investigators studying these and other emerging pathogens are invited to apply. Tenure track academic appointments will be made in the appropriate basic or clinical science department. Space, salary, fringe benefits and start-up funds are competitive. If interested, please send a biographical sketch and three letters of reference to:

**Dr. Jerrold J. Ellner**  
Director, Dr. Ruy V. Lourenco Center  
for the Study of Emerging and  
Reemerging Infections  
New Jersey Medical School  
MSB Room 1-510  
185 South Orange Avenue  
Newark, NJ 07103-2714



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### Compound Libraries Manager Uniondale, NY

As a hands-on leader, you will manage chemical inventory; supervise a team of 6 or more professionals; direct workflow; prioritize tasks; and troubleshoot the database. Ideally, you will have a BS degree in chemistry or chemical engineering, 2-6 years' related experience and be comfortable working with industry standard databases. Supervisory, programming and robotics experience desired.

Please mail/resumes to: **Human Resources, OSI Pharmaceuticals, 106 Charles Lindbergh Blvd., Uniondale, NY 11553; FAX: (516) 222-0114.**

### Pharmacology Group Tarrytown, NY Associate Scientist

Supporting Internal Drug Discovery programs, you will undertake functional and radioligand binding experiments; utilize recombinant and native receptor systems to explore drug-receptor interactions; as well as design/perform experiments to measure cyclic AMP, intracellular calcium and other second messenger systems. We require a BS degree, 4-7 years experience in a pharmacology or biochemistry laboratory and excellent independent work skills.

### Research Associate

We need a motivated self-starter with a good eye for detail to perform radioligand binding experiments and measure intracellular second messengers to support GPCR programs. To succeed, you need a BS degree in the biological sciences, strong organizational skills and the ability to work efficiently in a team setting. Laboratory experience is an asset.

Please mail or fax resume to: **Human Resources, OSI Pharmaceuticals, Inc., at Tarrytown, 777 Old Saw Mill River Road, Tarrytown, NY 10591-6705; Fax: (914) 345-3565.**

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resumes (indicate position of interest) to: **e-mail: [employment@osip.com](mailto:employment@osip.com). Equal Opportunity Employer M/F/D/V.**

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**General Manager / Technology Development**  
 We are looking for an exceptional engineer and manager with a proven track record building and leading a team of engineers, software developers and molecular biologists. Must have a mastery of DNA chip field. Manage both internal and external resources. Product development and manufacturing experience required.

Job Code: 046-00.

**Director / Instrument Development**

You must have a strong track record developing instrumentation for DNA analysis. Expertise in liquid handling, optics and computer control, as well as familiarity with microfabrication methods is required. M.S./Ph.D. Engineering required.

Job Code: 047-00

**Director/Molecular Biology Methods**

We are looking for a Ph.D. Biochemistry/Biology with a 4+ year track record of DNA methods development. Encyclopedic knowledge of molecular biology protocols and methods, as well as multiple publications required. You must also have extensive knowledge of DNA hybridization field and strong quantitative skills.

Job Code: 048-00

**Research Scientist / Advanced Engineering**

Develop methods and instrumentation for DNA analysis. M.S. or Ph.D. in engineering, chemistry or related field required, as is familiarity with solid phase hybridization, optics and micro-fluidics. Programming experience on C++ or Perl desired.

Job Code: 106-00

Please send cover letter, resume /  
 CV and 3 letters of  
 recommendation.  
 EOE

## Vice President, Grants and Special Programs

The **Howard Hughes Medical Institute**, a national and international philanthropy devoted to biomedical research and science education, is seeking a **Vice President of Grants and Special Programs** to join our headquarters in **Chevy Chase, MD**.

The Vice President will oversee HHMI's grants programs, which focus in the areas of science education (pre-college through postgraduate), medical education and training for research, and international biomedical research with an annual budget of about \$100 million.

The successful candidate will hold a Ph.D. or M.D. degree and have a national reputation in science or medical education; demonstrated skill in managing people, programs, and innovative technologies; and the vision for strong and imaginative leadership for the future of biomedical science education.

Applications should include a CV; a brief summary of scientific and educational interests and accomplishments; and a description of administrative experience by **August 21, 2000**.

Please address expressions of interest to: **Reid Knight, Director of Human Resources, Howard Hughes Medical Institute, 4000 Jones Bridge Road, Chevy Chase, MD 20815.**

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## Deputy Division Director

**Summary:** Reports to the Division Director. Shares in the leadership, operation, and management of LANSCE-Division. Will have responsibility for directing research activities at the user facility and for oversight of the user program. Responsibilities include providing scientific leadership and maintaining high standards for the quality of scientific pursuits in the Division. Formulate long-range plans and program development for the division. Ensure that the division is responsive in its interactions with Laboratory programs and other divisions. Represent and promote the scientific work carried out by LANSCE-Division members both within and outside the Laboratory. Line management responsibilities include participating in personnel management, financial reporting, and professional development of staff. Aggressively pursue Laboratory objectives in the areas of Environment, Safety and Health, Diversity, Security and Technology Transfer.

**Required Skills:** Demonstrated record of success in providing scientific leadership in neutron science or experimental materials research. Proven record of personal scientific and technical accomplishments in neutron science, or experimental materials research. Familiarity with the user programs at a major neutron, or synchrotron user facility. Demonstrated success in strategic and tactical planning. Demonstrated effective interpersonal skills, including mentoring and development of others. Demonstrated ability to understand and resolve conflicting technical issues. Demonstrated capabilities in leading, building and strengthening teams. Record of effective written and verbal communications as evidenced by internal and external interactions, including briefings, presentations and publications. Demonstrated experience working effectively in a team environment.

**Desired Skills:** Demonstrated familiarity with a broad range of neutron research activities. Extensive personal research activities at a neutron or synchrotron facility. Demonstrated technical management in a research-oriented organization including program development, responsible management of resources and effective resolution of conflicts. Record of promoting diversity. Knowledge of Laboratory, DOE, and other national programs of relevance to Division's activities. Education: Ph.D. degree in Experimental Science, or an equivalent combination of education and experience.

**Notes to Applicants:** For specific questions about the status of this job, call (505) 667-9904.

For the full text of this job advertisement, see [www.hr.lanl.gov/jobs](http://www.hr.lanl.gov/jobs), and look under the Professional section for Job #005867.

To apply, submit a comprehensive resume and cover letter that addresses the specific required and desired criteria, referencing "SCIENCE005867", to the Resume Service Center, Mailstop MSP286, Los Alamos, NM



**Los Alamos**  
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Science Serving Society

Genetic Therapy, Inc. (GTI), a Novartis company, is a leader in the research and development of human gene therapy products and technologies for the treatment of genetic and acquired diseases. We are seeking enthusiastic scientists to join our Vector Process Development Group, which is responsible for developing scalable processes for the production and purification of viral vectors.

## Manager - Downstream Process Development

The ideal candidate will provide leadership to a group of scientists carrying out experiments to establish and troubleshoot purification processes. It is expected that the candidate will be highly interactive with other scientists and engineers within the department and the company to seek out opportunities for contribution, and will be self-directing of his/her research. The candidate will have supervisory experience and will be responsible for directing and performing hands-on lab work in the following: chromatography; filtration processing methods; analytical chemistry; HPLC; mass spectrometry; light scattering; gel electrophoresis; bioassays; experimental statistical methods; process validation; and technology transfer to GMP manufacturing. A working knowledge of cGMP is preferred, and experience with viral vectors or vaccines an asset. The candidate will provide internal expertise, and is expected to establish and maintain an international reputation in the field via publications, presentations, conference participation, and networking. Minimum qualifications include a Ph.D. in Chemical Engineering, biochemistry, pharmaceutical science or relevant scientific discipline with at least 5 years experience in downstream process development in the biopharmaceutical industry. Please specify job code G8002013.

## Scientists - Downstream Process Development

We are seeking energetic scientists to work in the downstream vector process development group to carry out experiments to establish and troubleshoot cell culture downstream processing; purification processes; and process validation. The candidate should have a working knowledge of most of the following techniques: chromatography; filtration processing methods; analytical chemistry; HPLC; mass spectrometry; light scattering; gel electrophoresis; bioassays; experimental statistical methods; and process validation. A working knowledge of cGMP preferred, but not essential, and experience with viral vectors or vaccines an asset. Minimum qualifications include a BS or MS in Chemical Engineering, biochemistry, pharmaceutical science or relevant scientific discipline with at least 2 years experience in downstream process development in the biopharmaceutical industry. Please specify job code G8002014.

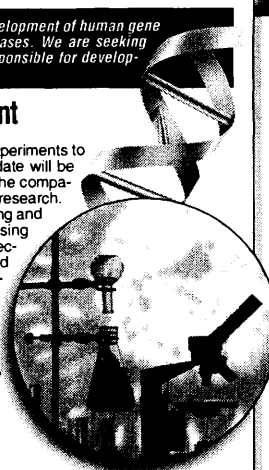
All candidates should have strong organizational and communication skills, as well as the ability to work in a fast-paced, team-oriented environment. All of our positions encourage creative thinking! GTI offers a stimulating and innovative environment with competitive salaries and benefits. Fax or send curriculum vitae to:



**GENETIC THERAPY, INC.**  
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Genetic Therapy, Inc.  
9 West Watkins Mill Road  
Gaithersburg, MD 20878  
Fax: (301) 258-4605  
Email: [gti.jobs@pharma.novartis.com](mailto:gti.jobs@pharma.novartis.com)

Genetic Therapy, Inc. is an equal opportunity employer.



## Chair, Dept. of Pharmacological Sciences

The School of Medicine in the University at Stony Brook invites nominations and applications for the position of Chair, Department of Pharmacological Sciences. The School of Medicine is dedicated to excellence in teaching, research, and clinical care. The school has a long standing record of accomplishments in the basic science which it seeks to grow. The dept. is currently comprised of 15 full-time faculty and has internationally recognized research programs in a variety of areas including cellular signal transduction, molecular pharmacology and toxicology, and neurotransmitter receptor structure and function. Its research is NIH-ranked fifth in the nation based on external funding.

Candidates should have an outstanding record of achievement in scholarship and be committed to the academic goals of the University. Applicants must hold a doctoral degree or equivalent and be qualified for senior faculty appointment.

Nominations and applications that include a resume and three references will be accepted as of August 1, 2000, submit to: Dafna Bar-Sagi, Search Committee Chair, Dept. of Molecular Genetics and Microbiology, 220 Life Sciences, SUNY/Stony Brook, Stony Brook, NY 11794- 5221

Search will remain open until a suitable candidate is appointed.  
AA/EOE

**STONY BROOK**  
STATE UNIVERSITY OF NEW YORK



## BIOPHYSICS/ BIOENGINEERING

The Department of Physiology and Pharmacology at the Oregon Health Sciences University invites applications from individuals pursuing new opportunities in emerging areas of biomedical research, and employing research strategies that bridge traditional disciplinary boundaries. We seek to fill positions at the level of Assistant Professor and invite applications from individuals with postgraduate training in Molecular Biophysics and Bioengineering whose research programs complement existing programs in ion channel biology, receptor structure and function, neurobiology, cardiovascular biology and reproductive biology. We seek individuals who will develop an independent research program and contribute to the teaching of Medical Students and Graduate Students, and who are excited by the prospect of an interdisciplinary environment in which molecular and integrative studies are ongoing in a single academic department (<http://eluvii.ohsu.edu/PhysPharm/>). OHSU offers a highly interactive research environment and superb opportunities for career development in the spectacular setting of the Pacific Northwest.

Applications or inquiries may be directed to:

**David C. Dawson, Ph.D. ([dawsonda@ohsu.edu](mailto:dawsonda@ohsu.edu))**  
Professor and Chair, Faculty Search (BB)  
Department of Physiology and Pharmacology (L334)  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098

## GLADSTONE INSTITUTE OF NEUROLOGICAL DISEASE UNIVERSITY OF CALIFORNIA SAN FRANCISCO

### RESEARCH SCIENTIST

Research Scientist position available in the laboratory of Dr. Lennart Mucke. Research will focus on the analysis and experimental manipulation of in vivo and in vitro models of Alzheimer's disease and other neurodegenerative disorders. A solid background in electrophysiology, signal transduction, or cell biology is preferred. Job #N00-10S

### POSTDOCTORAL FELLOWSHIP

Postdoctoral Fellowship position available in the laboratory of Dr. Lennart Mucke. Training will focus on the multidisciplinary analysis of molecular pathways that link genetic changes to the development of neurodegenerative disorders, particularly Alzheimer's disease. Job #N00-11S

All positions require a Ph.D., M.D., or both, an outstanding record, and a commitment to an academic career in disease-related neuroscience.

Please indicate job number in cover letter and send CV, description of experience and interests, and three references to:

Lennart Mucke, M.D.  
Gladstone Institute of Neurological Disease  
P.O. Box 419100  
San Francisco, CA 94141-9100  
email: [Lmucke@gladstone.ucsf.edu](mailto:Lmucke@gladstone.ucsf.edu)  
<http://gladstone.ucsf.edu/gind>

Equal Opportunity/  
Affirmative  
Action Employer



## St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

### FACULTY MEMBER Immunology

The Department of Immunology at St. Jude Children's Research Hospital (SJCRH) is recruiting faculty who may be at the Assistant, Associate, or Full Member (Professor) level. Applications will be considered from those interested in all areas of immunology. The current faculty: P.C. Doherty, C. Coleclough, M.E. Conley, E. Gulbins, J.L. Hurwitz and D.A.A. Vignali pursue studies related to viral immunity, lymphocyte activation, genetic disorders of the immune system, antigen recognition and apoptosis. Candidates must possess a Ph.D. and/or M.D., and have a record of research productivity and extramural support consistent with rank of appointment.

Attractive recruitment packages are available, including competitive salaries, generous start-up funds, and laboratory space. SJCRH is noted for its outstanding and affordable core research facilities which include a state-of-the-art Flow Cytometric and Cell Sorting facility, an MHC Tetramer laboratory, Tissue Processing, Cell Microinjection, Cytogenetics, Transgenic/Gene Knockout, Bioinformatics/DNA Chemistry/Protein Chemistry, and Specific Pathogen Free (SPF) animal facilities.

SJCRH is a hospital and a basic research institution with a focus on fundamental areas of biology that apply to catastrophic diseases of childhood including cancer, infectious diseases and genetic disorders of hematopoietic cells. It has a large faculty of basic and clinical investigators organized into traditional academic departments, including Biochemistry, Tumor Cell Biology, Virology and Molecular Biology, Developmental Neurobiology, Genetics, Structural Biology, and Molecular Pharmacology. The organization supports and encourages strong interdepartmental basic and clinical programs.

Applicants should send a curriculum vitae and the names of three references to: **Chairman, Immunology Faculty Search Committee, Department of Immunology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105.** Interested persons are encouraged to visit [www.stjude.org](http://www.stjude.org) for additional institutional information. St. Jude Children's Research Hospital is an Equal Opportunity/Affirmative Action Employer.

## ANTEX BIOLOGICS

ANTEX BIOLOGICS INC. is a biopharmaceutical company focused on the development of products to treat and prevent chronic infections and related diseases using proprietary platform technologies. Antex is located near Washington, DC and is seeking highly motivated research scientists to join our Company. You will become a member of an interdisciplinary team consisting of molecular biologists, biochemists, microbiologists and immunologists focused on the discovery and development of new vaccines and new drug targets to treat infectious diseases.

### Senior Research Scientist Ph.D., Molecular Biology (#4)

A Senior Research Scientist position is available within our Molecular Biology Department. The successful candidate will lead the Company's effort in the cloning and expression of bacterial genes encoding novel antigens and potential drug targets. The qualified individual must have a Ph.D. in Molecular Biology, Microbiology or Cell Biology with 5-8 years of relevant laboratory and managerial experience preferably in the pharmaceutical or biotechnology industry. Technical qualifications include proficiency in the following: 1) computational identification of ORFs using stand-alone bioinformatic packages (NTI, GCG, DNA\* etc), experience with more advanced genomic sequence analysis platforms is preferred; 2) cloning and expression of heterologous proteins in bacteria with additional experience in yeast and insect cells/baculovirus preferred; 3) advanced PCR techniques (primer design, RT-PCR, Taq-man assays); 4) in vitro mutagenesis procedures. The candidate must be able to work independently but within a multidisciplinary R&D group and possess excellent communication skills.

### Senior Research Associate MS/BS, Molecular Biology (#6)

We have an immediate opening for a Senior Research Associate to develop procedures to rapidly optimize recombinant protein expression in *E. coli*. The successful candidate will have demonstrated hands-on experience with different expression vectors. In addition, the candidate should be proficient with methods for characterizing recombinant proteins. Experience with mammalian, insect or yeast expression systems is desirable. The scientist should have an MS or BS in Molecular Biology, or a related discipline, with 3-5 years of laboratory experience.

### Research Scientist Ph.D., Assay Development (#7)

The successful candidate will be involved with developing a screening program aimed at identifying novel compounds to treat infectious bacterial diseases. The research involves identification of targets, development of molecular and cellular assays and implementation of the assays. The candidate must be team orientated and interact with medicinal chemistry, molecular biology, microbiology/cell biology and immunology to qualify novel bacterial drug targets and to identify hits and lead optimization. The position requires a Ph.D. in Cell Biology, Microbiology, Biochemistry or Molecular Biology with a minimum of 3-4 years of industry experience in drug discovery and, specifically, the development of high throughput screening assays.

### Research Scientist Ph.D., Drug Target Discovery (#9)

We are looking for creative scientists with research experience in the discovery and qualification of novel bacterial drug targets. This position requires an in depth knowledge of microbial pathogenesis and, specifically, with processes that are essential for host colonization and infection. Armed with this experience, the candidate will be responsible for leading an effort to identify, evaluate and develop assay methods to qualify these targets. The position requires a Ph.D. in Microbiology with a minimum of 3-4 years in pharmaceutical development.

ANTEX BIOLOGICS INC. is located in Gaithersburg, Maryland. We offer competitive compensation and benefits, including medical, life insurance, 401(K) and stock options. Send resume, referencing position number, to **HR, Antex Biologics Inc., 300 Professional Drive, Gaithersburg, MD 20879** or E-mail to: [hr@antexbiologics.com](mailto:hr@antexbiologics.com)

## INTERNATIONAL SYMPOSIUM ON CANCER RESEARCH

"Cancer in Children and Adults: Advances in the Understanding of Basic Mechanisms and Development of Therapeutic Strategies"

TEXAS RESEARCH PARK ~ SAN ANTONIO, TEXAS  
OCTOBER 11-13, 2000

## Speakers

Dr. Frederick Alt, Boston, MA;  
Dr. Eric Brown, Pasadena, CA;  
Dr. Judith Campisi, Berkeley, CA;  
Dr. Martin Cheever, Seattle, WA;  
Dr. Ronald DePinho, Harvard, MA;  
Dr. Errol Friedberg, Dallas, TX;  
Dr. Jan H.J. Hoeijmakers, Rotterdam, Netherlands;  
Dr. Mark Israel, San Francisco, CA;  
Dr. Maria Jasin, New York, NY;  
Dr. Michael Lieber, Los Angeles, CA;

Dr. Thomas Look, Boston, MA;  
Dr. Mike O'Donnell, New York, NY;  
Dr. John Petrini, Madison, WI;  
Dr. Louise Prakash, Galveston, TX;  
Dr. Satya Prakash, Galveston, TX;  
Dr. Frank Rauscher, Philadelphia, PA;  
Dr. Daniel Von Hoff, Tucson, AZ;  
Dr. Ted Weinert, Tucson, AZ;  
Dr. Stephen West, Herts, England;  
Dr. Samuel Wilson, Research Triangle Park, NC

## Sponsors

Affiliates of The University of Texas Health Science Center at San Antonio:  
The Institute of Biotechnology  
The Children's Cancer Research Center  
The San Antonio Cancer Institute

For additional information:

<http://www.uthscsa.edu/cancersymposium>

### Biotechnology Company Seeks Research Scientists

Genetic Therapy, Inc. (GTI), a Novartis company, is a leader in the research and development of human gene-therapy products and technologies for the treatment of genetic and acquired diseases. We presently have the following openings:

#### ANTI-ANGIOGENESIS PROGRAM

We are looking for highly motivated individuals to join our team in developing angiogenesis based gene-therapy products to treat cancer. The ideal candidate will have expertise in endothelial cell biology and at least two of the following areas; molecular & cell biology, protein biochemistry, functional genomics, or cancer biology. A knowledge of gene therapy vectors is an advantage. Minimum qualifications include a Ph.D. in one of the biological sciences with at least 4 years of experience. **Please specify job code GB003035 when applying.**

#### LENTIVIRAL VECTOR PROGRAM

We are seeking motivated scientists to join our Lentiviral Vector team, which is responsible for the development of novel, sustained-expression gene transfer systems. The ideal candidate will have expertise in retrovirology and molecular biology. Experience in the development of viral vector-based gene transfer systems is desired. Minimum qualifications include a Ph.D. in Virology, Molecular Biology or a related field, with two or more years of relevant postdoctoral training. **Please specify job code GB002009 when applying.**

GTI offers a stimulating and innovative team environment with competitive salaries and benefits. Fax or send curriculum vitae to:

Genetic Therapy, Inc.  
9 West Watkins Mill Road  
Gaithersburg, MD 20878  
Fax: (301) 258-4605  
Email: [gti.jobs@pharma.novartis.com](mailto:gti.jobs@pharma.novartis.com)



GENETIC THERAPY, INC.

A NOVARTIS COMPANY

Genetic Therapy is an Equal Opportunity Employer.

## MEETINGS

### The Science of the Placebo:

*Toward an Interdisciplinary Research Agenda*

November 19-21, 2000

National Institutes of Health

#### Co-chairs:

Arthur Kleinman and Harry Guess

#### Participants confirmed to date:

- **Definition and History:** Anne Harrington, Ted Kaptchuk, Robert Rose
- **Biological Aspects:** Gerald Fischbach, Steven Hyman, Donald Price
- **Behavioral Aspects:** Robert Ader, Richard Bootzin, Margaret Chesney, Irving Kirsch, Shepard Siegel
- **Social/Cultural Aspects:** Thomas Csordas, Robert Hahn, Daniel Moerman
- **Clinical Trials:** Edward Davis, Kenneth Rothman, Robert Temple
- **Ethics:** Sissela Bok, Howard Brody, Robert Levine

For information/registration, see <http://placebo.nih.gov> or contact Un Lee or Maria Smith at TASCON, Inc. (301/315-9000 or [placebo@tascon.com](mailto:placebo@tascon.com))



### RESEARCH ASSISTANT PROFESSOR

Department of Anatomy  
West Virginia University

Available immediately, full-time temporary position to participate in lectures and laboratory for team-taught courses for Dental and Medical Students. Opportunities exist for developing instructional technology for biomedical courses and for conducting basic research in various areas of cellular and neural science. The position is a one-year contract beginning September 1, 2000, with the possibility for an additional two years of appointment in the beginning salary range of \$35,000-\$45,000 annually, plus benefits.

Send CV, References, and a one-page narrative describing your teaching experience and career plans to:

Richard D. Dey, Ph.D.  
Professor and Interim Chairperson  
WVU Department of Anatomy  
P. O. Box 9128  
Morgantown, WV 26506-9128

WVU is an Affirmative Action/Equal Opportunity Employer



EPILEPSY FOUNDATION®

### RESEARCH GRANTS AND FELLOWSHIPS

The Epilepsy Foundation awards grants and fellowships for cutting-edge research into the causes of epilepsy. Program goals include understanding basic mechanisms, developing new therapeutic approaches, understanding the behavioral and psychosocial aspects of having epilepsy, and encouraging the professional growth of scientists and healthcare professionals.

The Epilepsy Foundation supports **Junior Investigator Research Grants** and training fellowships at the **post-doctoral, pre-doctoral, and student** levels. We are currently inviting applications for the funding cycle beginning July 1, 2001.

For further information, including applications and deadlines, please visit our website:

<http://www.epilepsyfoundation.org>

Epilepsy Foundation  
Research Department  
4351 Garden City Drive  
Landover, MD 20785-2267  
phone: (301) 459-3700  
fax: (301) 577-2684  
e-mail: [grants@efa.org](mailto:grants@efa.org)

## Director, Division of Diabetes, Endocrinology, and Metabolic Diseases National Institute of Diabetes and Digestive and Kidney Diseases

**THE POSITION:** Director, Division of Diabetes, Endocrinology, and Metabolic Diseases (DEMD). The Division of Diabetes, Endocrinology, and Metabolic Diseases provides research funding and support for both basic and clinical research in areas in diabetes, endocrinology and metabolic diseases. The Division Director serves as the principal advisor to the Institute Director, NIDDK, on all matters and policies pertaining to Division programs and is fully responsible for broad decisions concerning program planning, budget and policy formulation and budget allocation. The Division Director also provides creative leadership in support of trans-NIH and trans-HHS activities including the National Diabetes Education Program and the Diabetes Mellitus Interagency Coordinating Committee. In addition to the managerial and administrative responsibilities outlined above, the Division Director also serves as a scientific consultant on a national and international basis to physicians, educational institutions, hospitals, research centers and various other organizations fostering or promoting research in diabetes, endocrine and metabolic diseases including testimony before Congress and Congressional Committees.

**THE CHALLENGE:** To provide strong and creative leadership in the overall scientific and administrative management of innovative research programs involving multidisciplinary research grants, contracts, and training in diabetes, endocrinology and metabolic diseases and multipurpose centers of research and multi-center clinical trials. The Division has a staff of approximately twenty-one employees and a budget of approximately \$475,000,000.

**THE IDEAL CANDIDATE:** Applicants must have a M.D. or M.D./Ph.D. degrees, and have demonstrated innovative research leadership and program management of basic and/or clinical research of national and international standing in areas relevant to diabetes, endocrinology, and metabolic diseases.

**SALARY:** The Director, Division of Diabetes, Endocrinology, and Metabolic Diseases will be appointed under Title 42, at salary very competitive and commensurate with the experience of the candidate. A 25% initial salary recruitment and/or relocation bonus may also be available.

**HOW TO APPLY:** A current curriculum vitae and bibliography should be submitted to: DEMD Division Director Search Committee, c/o Ron Sleyo, NIDDK Office of Human Resource Management, Building 31/9a30, 31 Center Drive MSC 2560, Bethesda, MD 20892-2560

**Applications must be postmarked by August 24, 2000 and received by the close of business on September 1, 2000.**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

## Robert W. Franz Cancer Research Center Providence Health System *in Oregon*

The Robert W. Franz Cancer Research Center needs to fill several positions to support recent growth and new federal grant funding. The Center's focus is on the immunology of melanoma, renal cell, prostate, and breast cancer. The goal of our research is to translate promising laboratory findings into new therapies for patients with cancer, with an emphasis on vaccine development.

### Senior Research Associate

Outstanding opportunity for a Senior Research Associate to participate in a state-of-the-art cancer immunotherapy program. Extensive ongoing human anti-cancer immunotherapy clinical studies at the Earle A. Chiles Research Institute require the organization and establishment of a new Immunomonitoring Laboratory to measure the immune response of cancer patients receiving gene-modified therapeutic cancer vaccines, anti-cancer vaccines formulated with defined tumor associated antigens and/or cytokine therapy.

Requires a Bachelor's or Master's degree, plus at least five years of laboratory research experience. Extensive, broad-based experience in tissue culture, flow cytometry, tetramer and ELISPOT assay procedures, in-vitro T-cell activation and effector function (CTL) assays, and some knowledge of basic molecular biology techniques such as PCR and RPA procedures essential. Will also be required to manage a sophisticated, multi-instrument flow cytometry facility, and train junior technicians in basic flow cytometry procedures. Must have excellent communication skills since the position requires significant management responsibilities with other laboratory personnel.

### Research Associate

The successful candidate for this position will participate in the preparation of cancer vaccines for cancer immunotherapy patients in clinical trials. Additional responsibilities include performing a variety of immunomonitoring studies to measure the antigen-specific immune response of patients receiving cancer immunotherapy vaccines. Assays will include flow cytometry analysis of cytokine and chemokine expression by T-cell and dendritic cell subsets, ELISPOT and tetramer analysis of CD-4 positive and CD-8 positive T lymphocyte subpopulations, cell-mediated cytotoxicity assays, and PCR and RPA analysis of cytokine and chemokine mRNA in discrete lymphocyte and dendritic cell subpopulations.

Requires a Bachelor's degree and at least two years of experience working in a cell biology, immunology, or molecular biology research laboratory. Must have well developed tissue culture skills, knowledge of basic in-vitro techniques for culturing and activation of T-cells, and competence in basic molecular procedures.

Visit our website at: [www.franzcancer.org](http://www.franzcancer.org)

Our compensation package and health care plan are highly competitive. Please send a cover letter briefly describing research experience, a curriculum vitae and the names of three references to: Edwin Walker, Ph.D., Chief, Immunomonitoring Laboratory, Robert W. Franz Cancer Research Center, Providence Portland Medical Center, 4805 N.E. Glisan Street, Suite 5F40, Portland, OR 97213; or FAX (503) 215-6841. We are an Affirmative Action Employer in a Culturally Diverse Workplace.



Providence Health System

A caring difference you can feel



## Bioinformatics Research Scientists

The **Howard Hughes Medical Institute**, a leading biomedical research organization, is currently seeking 3 full-time **Bioinformatics Research Scientists** in computational biology and bioinformatics. The research areas include: protein sequence/structure comparisons and classification; structure prediction; genome analysis; algorithm development; and mathematical modeling.

Applicants should have an advanced degree (Ph.D. is preferred) in Biological, Physical, or Computer Science. Candidate should also possess either strong programming skills (UNIX environment, C/C++, Perl5, HTML/Java) and a solid background in data analysis/statistics combined with some experience in bioinformatics; or a proven record in computational/structural biology, including experience with remote homology detection, multiple sequence alignment, phylogenetic trees, and spatial structure comparisons.

The salary range is from \$40,000 to \$80,000. Please send CV to: **HHMI, Attn: Dr. Nick V. Grishin, 5323 Harry Hines Blvd., Dallas, TX 75390-9050.**

HHMI is an equal opportunity employer.

[www.hhmi.org](http://www.hhmi.org)



## CHEMISTRY/CHEMICAL BIOLOGY

The Department of Physiology and Pharmacology at the Oregon Health Sciences University invites applications from individuals pursuing new opportunities in emerging areas of biomedical research, and employing research strategies that bridge traditional disciplinary boundaries. We seek to fill positions at the level of Assistant Professor and invite applications from individuals with postgraduate training in Chemistry whose research interests complement existing programs in ion channel biology, receptor structure and function, oxidative stress, neurobiology, cardiovascular biology and reproductive biology. We seek individuals who will develop an independent research program and contribute to the teaching of Medical Students and Graduate Students, and who are excited by the prospect of an interdisciplinary environment in which molecular and integrative studies are ongoing in a single academic department (<http://eluviiis.ohsu.edu/PhysPharm/>). OHSU offers a highly interactive research environment and superb opportunities for career development in the spectacular setting of the Pacific Northwest.

Applications or inquiries may be directed to:

**David C. Dawson, Ph.D. ([dawsonda@ohsu.edu](mailto:dawsonda@ohsu.edu))**  
**Professor and Chair, Faculty Search (CB)**  
**Department of Physiology and Pharmacology (L334)**  
**Oregon Health Sciences University**  
**3181 S.W. Sam Jackson Park Road**  
**Portland, OR 97201-3098**

## DIVISION FELLOW/ COMPLEX BIOLOGY

The Physical Biosciences Division at the **Lawrence Berkeley National Laboratory** seeks to appoint a Division Fellow, a five-year career development track that may culminate in appointment to the permanent rank of Senior Scientist. Applications are solicited from persons with a Ph.D. or equivalent and an active research program in complex biology. Areas can include, but are not limited to, innovative instrumentation to follow the behavior of complex molecular machines and to monitor the cell's physiological states; high-throughput screening technologies; chemical manipulation/querying of cellular state and research on biological problems ultimately benefiting from quantitative measurement, computational analyses and genomic technologies. Candidate will be expected to maintain an active independent research program and supervise technical personnel/trainees. As a member of the Physical Biosciences Division, the individual must take advantage of the highly collaborative environment and technological resources of the Laboratory. Qualified applicants will provide intellectual and technological leadership in complex biology and facilitate programmatic interactions across the Laboratory and the University of California.

Please send curriculum vitae, a description of the proposed research program, and the names and addresses of at least three references by October 31, 2000 to: **Search Committee for Divisional Fellow C/O Adele Sylar, Job #PB/012210, E.O. Lawrence Berkeley National Laboratory, 1 Cyclotron Road, MS Donner, Berkeley, CA 94720.** Berkeley Lab is an AA/EEO Employer.



Isis Pharmaceuticals, Inc., is a leading genomics-based drug discovery and development company that is focused on RNA. Our goal is to create important new drug discovery technology platforms that will improve the productivity of the pharmaceutical industry and will enable our discovery and development of important new drugs to treat disease and to improve the lives of patients. We have integrated our expertise to create two exciting technologies, anti-sense and Ibis Therapeutics, a robust pipeline of drugs in development and genomics services.



## Scientist Functional Screening Program

Ibis Therapeutics, a division of Isis Pharmaceuticals, is seeking candidates for our Functional Screening Program. Ibis Therapeutics uses a novel, proprietary "Gene to Screen" approach to design small molecule drugs directed against prokaryotic and eukaryotic RNA targets. The Functional Screening Group is involved in target selection, target validation, assay development, and high throughput screening. Candidates with a BS or MS and 3-5 years experience in a drug discovery setting are encouraged to apply. Experience with RNA structure analysis and RNA directed assay development would be valuable.

Isis offers competitive salaries and excellent benefits. Please send resumes to: **Isis Pharmaceuticals, Code 371, 2292 Faraday Ave., Carlsbad, CA 92008; Fax: (760) 931-9639; E-mail: [info@isisph.com](mailto:info@isisph.com).** Principals only. No phone calls please. EOE.





# HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States. HHMI regularly has positions open for research and administrative personnel.

## Laboratory Positions:

- Postdoctoral Positions
- Research Specialists/Technicians
- Research Secretaries

## Administrative Positions:

- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

Institute employees enjoy competitive salaries and an excellent benefits package. HHMI is an equal opportunity employer. Please visit our website at [www.hhmi.org/jobs](http://www.hhmi.org/jobs) for a listing of available positions.



## MOLECULAR AND CELL BIOLOGIST RESEARCH ASSISTANT MEMBER

Oklahoma Medical Research Foundation (OMRF) invites applications for a Research Assistant Member available immediately. Candidates must have a Ph.D. and research experience in molecular and cell biology. Research experience in Alzheimer's disease (AD) will be given special consideration. The successful candidate is expected to develop a laboratory in molecular and cell biology and interact with other research projects in AD research.

The Oklahoma Medical Research Foundation is a private, non-profit medical research institute located in the heart of the Oklahoma Health Center. Principal areas of research at the foundation include: cancer, heart disease, diabetes, Alzheimer's and Parkinson's diseases, lupus, and other autoimmune diseases, stroke, AIDS, children's diseases and genetic disorders.

Applicants should submit curriculum vitae, a summary of research accomplishments and names of three references to: Dr. Jordan Tang, Ph.D., Oklahoma Medical Research Foundation, 825 N.E. 13th Street, Oklahoma City, OK 73104. Visit OMRF website at [www.omrf.ouhsc.edu](http://www.omrf.ouhsc.edu)

OMRF is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

## Sales/Applications Scientist

*Axon Instruments, Inc. is currently seeking an experienced sales professional to enhance our presence in the biomedical, molecular biology capital equipment market in the South West region.*

Candidates must possess a BS or higher degree in Molecular Biology or Biomedical Sciences, 4+ years of demonstrated biomedical sales experience, and excellent written/verbal communication skills. Applicants must feel comfortable presenting highly technical material to large audiences. Up to 50% travel required. Candidates must be able to relocate to Texas.

In addition to a competitive salary & benefits package, Axon offers a technologically innovative, team-oriented work environment, and an excellent opportunity for professional growth. Please forward resume to: **AXON INSTRUMENTS, HR, Attn: Job# SCI-SAS, 1101 Chess Drive, Foster City, CA 94404; FAX: (650) 286-6286; email: [jobs@axon.com](mailto:jobs@axon.com). (MS Word attachments only). No calls please. EOE/AA**



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

## POST DOCTORAL RESEARCH FELLOWSHIP in DNA REPAIR

### National Institutes of Health BETHESDA, MD

Postdoctoral position in molecular genetics to investigate the role of low fidelity DNA polymerases in human disease. Lesions in DNA pose blocks to replication by high fidelity DNA polymerases. To circumvent these lesions, cells utilize specialized low fidelity polymerases. We have recently identified a novel low fidelity human DNA polymerase, pol  $\iota$  (*Genes & Dev* (2000) **14**: 1642-1650) and are interested in extensively characterizing its cellular function. To this end, we are looking for two postdoctoral candidates familiar with DNA repair and with skills in eukaryotic molecular genetics, protein biochemistry or DNA replication. One position is available immediately, and the other in the fall of 2000. Applicants must also be within five years of completing their Ph.D. or M.D. degrees.

Contact: **Dr. Roger Woodgate, Section on DNA Replication, Repair and Mutagenesis, Building 6, Room 1A13, NICHD, 9000 Rockville Pike, Bethesda, MD 20892-2725. FAX: 301-594-1135; E-mail: [woodgate@helix.nih.gov](mailto:woodgate@helix.nih.gov)**

*NICHD/NIH is an  
Equal Opportunity Employer*



## NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF BIOCHEMISTRY Faculty Appointments

National University of Singapore invites applications for full-time tenure-track faculty positions in the Department of Biochemistry.

The Department of Biochemistry has teaching commitments to medical, dental and science students and has an active postgraduate research programme. Staff are vigorously developing an already strong reputation in research on venoms and toxins, neurobiology, gene cloning and expression, therapeutic gene transfer, ion channels, liposomes, ubiquitination, protein purification and sequencing, antioxidant and free radical biochemistry, nitric oxide and bacterial pathogens. The Department has collaborative links with research institutes within NUS, with government departments and private industries, as well as with research groups overseas. Staff members also hold adjunct/joint appointments in Bioscience Centre, Bioprocessing Technology Centre, Institute of Molecular Agrobiolgy, National University Medical Institutes, Institute of Molecular and Cell Biology, and the Universities of California, London and Melbourne, among others. The Department has excellent facilities for research in biochemistry and molecular and cell biology.

We are looking for outstanding faculty members who possess a PhD degree or an approved basic medical degree with a recognised higher academic/professional qualification and academic experience in teaching and research. A proven track record of high calibre, self-directed research in any area of biochemistry will be advantageous.

All faculty members are expected to teach undergraduate and graduate courses, supervise graduate students, and conduct vigorous research programmes that generate external funding and scholarship and intellectual output typical of that of a world-class university. Besides appointments on normal 3-year contracts, visiting appointments for one or two years may also be considered.

Interested parties should submit their applications, supported by a resume, detailed research plan and three letters of references immediately to:

**Professor Barry Halliwell**  
**Head, Department of Biochemistry**  
**National University of Singapore**  
**Lower Kent Ridge Road**  
**Singapore 119074**

Fax: +65 779 1453

E-mail: [bchhead@nus.edu.sg](mailto:bchhead@nus.edu.sg)

Visit our website at <http://www.nus.edu.sg/NUSinfo/Appoint/med-biochem.html> for links to information on the Department, the University, terms and conditions of service, and the application form.

*Only shortlisted candidates will be notified*

### DEAN OF THE COLLEGE OF OCEANIC AND ATMOSPHERIC SCIENCES

OREGON STATE UNIVERSITY invites nominations/applications for the position of Dean, College of Oceanic and Atmospheric Sciences (COAS). This is a 12-month, full-time appointment. The Dean provides leadership to a graduate research college with over 50 tenure track faculty members, 40 research scientists, 90 graduate students, and an annual budget of \$27 million. Candidates should have a distinguished record of academic achievement; possess a Ph.D. or equivalent; and have administrative expertise or demonstrated potential to provide effective management and leadership to a dynamic college. Research facilities include two research vessels, advanced computing resources, and state-of-the-art analytical instrumentation. The College conducts research and instructional programs in Oceanography, Geophysics, Atmospheric Sciences, and Marine Resource Management. For more information about COAS and OSU go to <http://www.oce.orst.edu>. The successful candidate will be awarded the academic rank of tenured professor. Salary is commensurate with qualifications. For full consideration apply by 11 September 2000; the position will remain open until filled. A complete application will consist of a letter of interest, a current curriculum vitae and the names, addresses, phone numbers and e-mail addresses of four to five references. Applications and nominations should be sent to:

**Dr. Nicklas Pisas, Chair**  
**Search Committee for Dean**  
**College of Oceanic and Atmospheric Sciences**  
**104 Ocean Admin Bldg**  
**Oregon State University**  
**Corvallis, OR 97331-5503**

Inquiries about the position may be directed to Dr. Pisas by phone (541-737-5213), e-mail ([npisas@oce.orst.edu](mailto:npisas@oce.orst.edu)) or by Fax (541-737-2064). OSU is committed to diversity and multiculturalism. OSU is an AA/EEO employer and has a policy of being responsive to the needs of dual career couples.



### Welcome to Bayer's Information Workshop

Bayer's Research Centre Kyoto (RCK), Japan, founded in 1995, represents the third major pharmaceutical research centre of Bayer Pharma's International Research triad. At RCK, inter-disciplinary teams of researchers with backgrounds in molecular and cell biology, biochemistry, medicinal and combinatorial chemistry, pharmacology, pharmacokinetics and bioinformatics work together with the common goal of identifying new drug candidates for the treatment of asthma. Our research activities are continuing to expand, and as a result we have openings for highly qualified individuals in all areas.

As an international research centre for Bayer Pharma, we are committed to identifying highly qualified candidates worldwide to fill these permanent positions at RCK. To this end, we are currently in the process of planning a weekend "information workshop," scheduled for September 15<sup>th</sup> to 17<sup>th</sup>, to be held at Bayer's research centre in West Haven, CT, USA. The purpose of this workshop will be for Bayer to host highly qualified candidates who have an interest in working at Research Centre Kyoto, and to share with them information on our research facilities and career opportunities.

Because attendance is limited, participation will be by invitation only; interested candidates are kindly asked to send their curriculum vitae, together with a brief summary of their research activities, to the following address:

**Mr. Satoshi Yasuda**  
**[Workshop-S] section**  
**Human Resources Division**  
**Bayer Yakuhin, Ltd.**  
**3-5-36 Miyahara, Yodogawaku**  
**Osaka 532-8577, Japan**

Fax: (+81)6-6398-1150

e-mail: [SATOSHI.YASUDA.SY@bayer.co.jp](mailto:SATOSHI.YASUDA.SY@bayer.co.jp)

Website: <http://www.bayer.co.jp/byl/rck>

Travel and accommodation expenses for all invited participants will be borne by Bayer.

*Bayer is an equal opportunity employer*

**OUTSTANDING SCIENTISTS FOR MOLECULAR DISCOVERY**

Dr. Reddy's Research Foundation is the leading pharmaceutical R&D company in India. We have two New Chemical Entities in clinical development and several promising candidates in our pipeline. At this stage we are poised to enter an exciting period of sustained growth in the scope of our activities. We are looking for suitable candidates to fill positions at different levels in the following areas of research. All these positions are based at our state-of-the-art research campus at Miyapur, Hyderabad, Andhra Pradesh, India.

**MOLECULAR BIOLOGY**

We have a challenging opportunity for a Scientist with Molecular and Cellular Biology expertise to join our Molecular Discovery group. The selected candidate will be responsible for identifying and exploiting new targets, particularly in the areas of Diabetes, Obesity, Cancer and Inflammation. This critical position will require practical experience in methods to characterize mRNA, protein expression levels for mammalian tissues, generation of stable cell lines and construction of mammalian reporter systems. Qualified candidate will possess Ph.D. in molecular Biology or equivalent and a minimum of three years of Post Doctoral experience, preferably in the Pharmaceutical or related sectors.

**MOLECULAR PHARMACOLOGY**

For this position we are looking for a Ph.D. with 3-4 years of experience in different areas of receptor biology such as receptor cloning, purification, expression, binding and functional characterization. You will use these tools as aids in understanding and qualifying in designing new assay systems and some exposure in an industrial setting will be highly desirable.

**BIOCHEMISTRY / IMMUNOLOGY**

The successful candidate will have Ph.D. in Biochemistry / Life Sciences. The selected candidate will be responsible for target based assay development for screening small molecule drug candidates. Should have proven technical and team skills with two years of Post Doctoral experience. Experience in a pharmaceutical R&D organization will be preferred.

**DRUG METABOLISM AND DISPOSITION**

We are looking for a Ph.D. to lead our DMPK efforts in providing support to our Drug Discovery and Development groups. We prefer candidates with some industrial experience, as well as technical expertise in one or more of these areas : bioanalytics (including LC-MS/MS for identifying and characterizing drug metabolites), *in vitro* methods for assessing drug metabolism and the use of radiolabelled drugs for metabolism and tissue distribution studies. Using a team based approach you will interact with scientists from a range of disciplines from Medicinal Chemistry to Clinical Research in helping solve problems in the DMPK assessment of new molecules.

**BIOANALYTICAL**

We are looking for a Ph.D. to lead our Bioanalytical efforts in providing support to Drug Discovery and Pharmacokinetic studies. The selected candidate will be responsible for the development and validation of analytical methods based on multiple-component LC-MS/MS for the quantitative determination of drug and metabolites in biological fluids and tissues. Must possess strong background in analytical and/or Organic chemistry. Experience in mass spectrometric analysis and / or quantitative analysis of drugs in biological matrices would be an added advantage.

**For all positions excellent oral and written communication skills are essential.**

DRF will offer attractive compensation and growth oriented career according to your vision, commitment and performance.

For more information about DRF, please visit the corporate website at : <http://www.drreddys.com/drfr>

For confidential consideration, please send resume within 15 days indicating two references to :

**Sr. Manager - HRD & MIS**  
**Dr. Reddy's Research Foundation**

**7-1-27, Ameerpet, Hyderabad - 500 016, A.P., India.**

**Fax : 91-40-3045438 / 3045007**

**Email : varmabvann@drreddys.com/drfrhrd@hotmail.com**

**THE UNIVERSITY OF HONG KONG**

香 港



大 學

The University of Hong Kong is one of the leading international comprehensive research universities in the Asia-Pacific region, with more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students (6,000 at postgraduate level). Research students come from more than 40 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

**Assistant Professor in the Department of Biochemistry**

Applications are invited for appointment as Assistant Professor in the Department of Biochemistry (Ref: RF-1999/2000-369), tenable from 1 April 2001. The appointment will initially be made on a three-year fixed-term basis, with a possibility of renewal.

The Department has a strong research culture and excellent research facilities which can support most aspects of advanced biochemistry and molecular and cell biology such as mass spectroscopy (MALDI-TOF), FACS, phosphoimaging, confocal microscopy and transgenesis. The Department teaches extensively in the MB, BS curriculum and offers a BSc degree course in Biochemistry. It also contributes to the BDS, BNursing and MMedical Sciences curricula. Postgraduate training is also offered, leading to the PhD and MPhil degrees. Currently 40 postgraduate students are enrolled. Applicants must possess a PhD degree, post-doctoral experience in any area of Biochemistry/Molecular Biology, and an excellent record of published research. Preference may be given to those with a strong potential to extend and complement current research areas of the Department: signal transduction, cell-matrix interactions, neuroscience, and developmental and molecular genetics. The appointee will be expected to develop an active research programme and must be able to contribute to teaching in varied aspects of the Department's undergraduate and postgraduate teaching programmes.

Annual salary [attracting 15% (taxable) terminal gratuity] for an Assistant Professor (in the grade of Lecturer) is on an 11-point scale, with starting salary depending on qualifications and experience: HK\$554,280 - HK\$925,980\* (approx. US\$71,700 - US\$125,830; US dollar equivalents as at 15 June 2000).

\*An appointee with an annual salary at HK\$740,640 (approx. US\$95,090) or above may be considered for the award of the title of Associate Professor on the basis of academic merits and achievements. At current rates, salaries tax will not exceed 15% of gross income. The appointment carries leave, medical and dental benefits, an allowance for children's education in Hong Kong, and, in most cases, a financial subsidy under the Home Financing Scheme for reimbursing either the actual rental payment or the mortgage repayment up to the relevant maximum entitlement may be provided.

Further particulars and application forms can be obtained at <http://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax: (852) 2540 6735 or 2559 2058; E-mail: [apptunit@reg.hku.hk](mailto:apptunit@reg.hku.hk)). Further information on the Department can be obtained at <http://www.hku.hk/biochem/>; or E-mail: [biochem@hkusua.hku.hk](mailto:biochem@hkusua.hku.hk). Closes **31 August 2000**.

*The University is an equal opportunity employer and enjoys a smoke-free environment*

## POSITIONS OPEN

### CHARLES R. PARENIA, JR. ENDOWED CHAIR Department of Entomology Texas A&M University

The Department of Entomology at Texas A&M University invites applications for a 12-month tenure-track **ASSOCIATE PROFESSOR/PROFESSOR** position as Charles R. Parenia, Jr., Endowed Chair (25% teaching; 60% research; 15% extension). The successful candidate will have a Ph.D. in entomology or closely related field, with national and international reputation in cotton IPM or related cropping systems. The individual selected for this Chair position is expected to develop a broad and pervasive program in the biology, ecology, and management of cotton insects. Emphasis will be placed upon constructing integrated insect management programs ranging from individual fields to regional production systems. The Chair will provide active leadership and serve in a coordinating role for cotton research and extension programs for the Department and the TAMUS Agriculture Program. Candidates are expected to have an active graduate training program at both the M.S. and Ph.D. levels. The candidate will be asked to participate in the teaching of undergraduate and graduate-level courses involving insect pest management and related fields. Interested individuals should submit curriculum vitae; letter of application with statement of research, teaching, and extension interest; copies of transcripts; three to five selected reprints; and the names, addresses, telephone numbers, FAX numbers, and e-mail addresses of four people who can be contacted for references to: **Charles R. Parenia, Jr., Endowed Chair Search Committee, c/o Dr. Perry L. Adkisson, Distinguished Professor Emeritus, Department of Entomology, Texas A&M University, College Station, TX 77843-2475. Telephone: 979-845-2516; FAX: 979-845-6305; e-mail: entomain@tamu.edu.** Information about the Department of Entomology can be found at the website: <http://entowww.tamu.edu>. The closing date for application is October 1, 2000, or until an acceptable candidate is found. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer.*

### MECHANISMS OF BEHAVIOR DEPARTMENT OF ECOLOGY, EVOLUTION, AND BEHAVIOR University of Minnesota

The Department of Ecology, Evolution, and Behavior invites applications for a nine-month, tenure-track **ASSISTANT PROFESSORSHIP** in mechanisms of behavior. Possible areas of research expertise include the neural, endocrine, or molecular basis of nonhuman behavior. The Department seeks an individual who can interact with colleagues in evolution and ecology and who will help strengthen the Department's ties with the University's existing programs including neuroscience, cognition, and cell and molecular biology. The successful candidate will offer an introductory course in "mechanisms of behavior" and maintain an extramurally funded research program addressing basic questions of behavioral mechanisms. The committee will begin its review of applications by September 11, 2000, although applications will be accepted and reviewed until the position is filled. Applications should include (1) a letter of application, including a statement of research and teaching interests; (2) curriculum vitae; (3) up to five reprints. In addition, the applicant should arrange for three letters of reference to be sent to the address below:

**Mechanisms of Behavior Search  
Ecology, Evolution, and Behavior  
University of Minnesota  
1987 Upper Buford Circle  
St. Paul, MN 55108**

*The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.*

## POSITIONS OPEN

### FACULTY POSITIONS UNIVERSITY OF NEBRASKA MEDICAL CENTER Eppley Cancer Institute/ UNMC Eppley Cancer Center

Seeking outstanding faculty to conduct research in: basic cancer research involving any area of molecular, cellular, or structural biology (e.g., signal transduction, apoptosis, gene expression, chromatin structure, angiogenesis, metastasis); cancer etiology, prevention, and/or chemoprevention using state-of-the-art molecular, genetics-based, and/or genomics-based approaches in their studies; tumor or transplant immunology having research interests in basic or clinical aspects of immunology, with translational potential to cancer and/or transplantation; and NMR spectroscopy and study of macromolecular structure. Experience or interest in the structural biology of proteins and oligosaccharides is especially desired.

Faculty appointments are tenure-track with an academic rank at the level of **ASSISTANT PROFESSOR** or above. Eppley Institute is an academic unit of UNMC and a key component of the UNMC Eppley Cancer Center, a National Cancer Institute (NCI)-designated cancer center in a dynamic growth phase. The Institute and Center have established research excellence in basic and translational cancer research in hematologic malignancies and gastrointestinal cancers, while breast and prostate cancer research programs are being developed. Applicants should possess a Ph.D., M.D., or other Doctoral-level degree and appropriate postdoctoral training. Successful applicants will be expected to develop extramurally funded laboratory research programs, collaborate with other faculty, and participate in the cancer research and breast cancer research training programs funded by NCI and the U.S. Army. Applicants should indicate which position(s) they are applying for and forward curriculum vitae, brief summary of future research plans (two to three pages), and a minimum of three letters of reference to: **Dr. Kenneth H. Cowan, Director, Eppley Institute for Research in Cancer, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, NE 68298-6805. See website: <http://www.unmc.edu/Eppley/> for more information. UNMC is an Equal Opportunity Employer.**

### INSECT ECOLOGIST FOR RIPARIAN SYSTEMS OREGON STATE UNIVERSITY

The Oregon State University Hermiston Agricultural Research and Extension Center, Hermiston, Oregon and Department of Entomology, Corvallis, Oregon invite applications for a tenure-track **ASSISTANT PROFESSOR** of Entomology in insect ecology research of riparian zones to support salmonid recovery in north central Oregon. Initial research will focus in the Umatilla River system, but opportunities to join interdisciplinary research teams in other river systems will be encouraged. Applicants with a research focus in terrestrial and aquatic insect ecology are preferred. The individual will participate in the Department of Entomology graduate education. Ph.D. required at time of appointment. Further information at website: <http://www.ent.orst.edu/entomology/jobs>. Applicants should send letter of interest, statement of research and teaching goals, curriculum vitae, transcripts, reprints, and names of three references to: **Dr. Ralph Berry, Search Committee Chair, 2046 Cordley Hall, Oregon State University, Corvallis, OR 97331-2907. E-mail: [berryr@bcc.orst.edu](mailto:berryr@bcc.orst.edu).** Closing date: August 1, 2000. Position available: December 1, 2000. *Oregon State University is an Affirmative Action/Equal Opportunity Employment Employer.*

**DIRECTOR LICENSING** in Thousand Oaks, California. Require Bachelor's in a scientific field (biology, chemistry, zoology, or physics) and four years of experience in the job. Define strategy and negotiate terms for inward license of products and technologies to enhance pharmaceutical company portfolio. **FAX your resume to: Yen Chong, Amgen, Job Code: 468; Telephone: 805-447-1985.**

## POSITIONS OPEN

### SIX NEUROSCIENCE FACULTY POSITIONS NEUROLOGICAL SCIENCES INSTITUTE Oregon Health Sciences University

The Neurological Sciences Institute is recruiting additional faculty to staff its new research facility on Oregon Health Sciences University's west campus. We invite applications from neuroscientists at the level of **ASSISTANT, ASSOCIATE or SENIOR SCIENTIST** whose research complements that of the current faculty ([website: www.ohsu.edu/nsi/](http://www.ohsu.edu/nsi/)). Preference will be given to those with extramurally funded programs. All levels of investigation will be considered including molecular, cellular, systems, and behavioral. Research related to hearing is one specific need to be filled.

Our institute is a multidisciplinary center dedicated to advancement of our understanding of the brain and neurological disorders and to application of that understanding to address problems in human health. We are part of a rapidly growing university that is strong in basic and clinical neurosciences. We are located adjacent to the Oregon Regional Primate Research Center and the new Vaccine and Gene Therapy Center.

Applicants should submit curriculum vitae, a statement of research interests, and three letters of recommendation to: **Search Committee, Neurological Sciences Institute, Oregon Health Sciences University, 1120 N.W. 20th Avenue, Portland, OR 97209.** Applications must be received before August 15, 2000; interviews will be conducted in the fall/winter of 2000 for appointments to begin in the fall of 2001. *Oregon Health Sciences University is an Equal Opportunity Employer.*

### TENURE-TRACK FACULTY POSITION DEPARTMENT OF MOLECULAR AND MEDICAL GENETICS Oregon Health Sciences University

Applications are invited for an **ASSISTANT PROFESSOR** position from individuals who have demonstrated superior research productivity in eukaryotic genetics. Potential research areas include molecular genetic/genomic approaches to problems related to human disease and/or development, including the utilization of model systems and organisms. Candidates must hold a Doctoral degree and will be expected to establish a vigorous independent research program. The Department has established research programs of excellence in molecular, cellular, developmental, and human genetics. Opportunities for collaborative research exist both within and outside the Department and for participation in the interdepartmental graduate training program in molecular and cellular biosciences. Applicants should submit curriculum vitae, a description of research interests, and the names of three references to:

**Search Committee c/o Janice Blouse  
Department of Molecular and  
Medical Genetics, L103  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098**

**Website: <http://www.ohsu.edu/som-MedGen/genpage.htm>**

Applications will be reviewed starting September 1, 2000. *Oregon Health Sciences University is an Equal Employment Opportunity/Affirmative Action Employer.*

The University of Alabama at Birmingham is seeking applicants for the position of **RESEARCH ASSISTANT PROFESSOR**, nontenure track. This individual would measure various neurohormones from blood, human fluid, and tissue specimens and perform protein purification and enzyme assays from tissue. Applicants must be experienced analytical biochemists, fully competent in the performance of high-performance liquid chromatography. Send curriculum vitae to: **Robert C. Bourge, M.D., Director, University of Alabama at Birmingham Station, Birmingham, AL 35294-0006.** *University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.*



# THE UNIVERSITY OF MANCHESTER SCHOOL OF BIOLOGICAL SCIENCES



REF: 558/00

The School is one of the largest and most successful University Biological Sciences Departments in Europe with over 100 academic staff and 600 research scientists. It fosters excellence in research and teaching across the whole spectrum of biology, including biomedicine, and maintains a highly interdisciplinary and collaborative environment in which individuals can flourish. As part of our continuing recruitment drive, we now wish to make further 'tenure-track' appointments in the following areas:

## LECTURER/SENIOR LECTURER IN BIOMEDICAL SCIENCES

(4 posts)

We seek to appoint candidates with strong research records in aspects of biomedicine which complement existing strengths in the School. Preference will be given to those who can integrate molecular, cellular and physiological studies especially in the following areas: Channels & Transporters, Receptors & Signalling, Vascular Biology, Neuroscience, Endocrine Sciences, Anatomical Sciences and Molecular Bacteriology.

## BIOLOGISTS IN THE EARLY STAGE OF THEIR CAREERS

(2 lectureships)

Applications are invited from biologists researching any aspect of the biological sciences who have up to 6 years' postdoctoral experience or who hold individual Fellowships or Career Development Awards. Such appointees will be protected from heavy teaching/administrative loads in the first 2-3 years. Particularly welcome are applications from those scientists whose research interfaces with existing research groupings in the School in areas of molecular, cellular or organismal biology and genetics (animal, plants, microbes).

## LECTURER/SENIOR LECTURER IN INTEGRATIVE ANIMAL BIOLOGY/ZOOLOGY

(2 posts)

Preference will be given to applicants with research interests that span levels of organisation from molecular/cellular to whole organismal/evolutionary aspects. Current areas of research strength include Parasitology; Neurobiology and Behaviour; Invertebrate Behaviour/Genetics; Neuroendocrinology, Endocrinology and Reproductive Biology; and Bioinformatics/Evolutionary Biology. We would welcome applications from scientists with a field-to-laboratory interest for one of these positions.

## PARTICULARS

Information on the School, and application forms, can be found on <http://www.biomed.man.ac.uk> or be obtained from: The Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL, UK. Tel: +44 (0)161 275 2442; E-mail: [personnel@man.ac.uk](mailto:personnel@man.ac.uk) Quote Ref: 558/00 in all cases. Specific enquiries can be made to [biosearch@man.ac.uk](mailto:biosearch@man.ac.uk) but all formal applications must be submitted through the above office. The Lecturer and Senior Lecturer salary ranges are currently £18,731 to £30,967 and £32,510 to £36,740.

Closing date: 18 September 2000.



INVESTOR IN PEOPLE

As an Equal Opportunities Employer, the University welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.



## POSITIONS OPEN

### CURATORIAL ASSOCIATE AND RESEARCHER VERTEBRATE BIOLOGY

Career appointment (**ASSOCIATE SPECIALIST**) in the Museum of Vertebrate Zoology, University of California, Berkeley. Requirements include advanced degree (Ph.D. preferred), prior curatorial experience, and experience with museum database management. Responsibilities include (1) curatorial and managerial functions in large collections of amphibians, reptiles, birds, mammals, and genetic resources; (2) training and supervision of student curatorial assistants; (3) outreach to researchers, state, and federal government officials, environmental organizations, and the general public (80% time); and (4) maintenance of a personal, high-quality research program (20% time). Preference will be given to individuals with skills in application of computer technology and in either systemic mammalogy or herpetology. Applicant should submit a résumé and statement of his/her vision for museum collections in the academic setting of a major research university and have letters from three references sent to: **Director, Museum of Vertebrate Zoology, University of California, Berkeley, CA 94720-3160 U.S.A.** Completed applications must be received by September 15, 2000, with a potential starting date of January 1, 2001.

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

Cellular and molecular pharmacology **FACULTY POSITION**: The University of California, San Francisco, Neurology Alcohol Research Program, and The Ernest Gallo Clinic and Research Center seek highly qualified applicants for faculty positions at the **ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR** level to pursue research in the study of molecular and cellular mechanisms leading to alcohol addiction and focusing on the roles of kinases and kinase-anchoring proteins. The research is aimed toward the development of new drug targets to treat alcoholism. Applicants should have a Ph.D. and/or M.D. and should have established an independent research and publication record in the field of kinases in health and in disease states such as alcoholism. Additionally, applicants should have a strong background in chemistry and pharmacology and knowledge of the drug discovery process. Applicants should send their curriculum vitae and the names, addresses, and telephone numbers of three references to: **Cellular and Molecular Pharmacology Search Committee, Attention: Ivan Diamond, M.D., Ph.D., University of California, San Francisco-Gallo Center, 5858 Horton Street, Suite 200, Emeryville, CA 94608. E-mail: diamond@itsa.ucsf.edu.** *University of California, San Francisco, is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

**EDITORIAL LANGUAGE ASSISTANT (TRANSLATOR)** for Central Ohio chemical information services organization. Duties to be performed: Translate into English technical and scientific Japanese documents (such as patents and journals), considering technical terminology such as scientific, medical, or chemical terminology, and also language variance; recognize and select bibliographic information; monitor Japanese patent diagnostics and correct data and information as needed; perform initial output of translated information into electronic tracking system-searchable database; correct diagnostic errors; provide linguistic and language support to other workers and departments; receive general supervision and consult with manager regarding operational policy guidelines. Requirements include two years of experience in/with any scientific, medical, or chemical field. Must be able to read and write technical Japanese and English. Experience may have been gained in the job described or any other job or jobs. 40 hours per week; 8 a.m.-5 p.m.; \$15.00 per hour. Send two résumés and cover letters (no calls) to: **ES Sp. Programs, REF# 6065D, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

## POSITIONS OPEN

### DEPARTMENT OF LIFE SCIENCES THE UNIVERSITY OF THE WEST INDIES, MONA

The University of the West Indies, Mona, is seeking Senior Lecturers/Lecturers (**ASSOCIATE PROFESSORS/ASSISTANT PROFESSORS**), tenure track, for the following posts in the Department of Life Sciences:

**Forestry:** Applicants should have a Ph.D. degree and a strong background in agroforestry. The successful applicant will be expected to assist in the development of research programmes and teaching in the area of forestry and to undertake some general teaching in botany. **Pesticide and Pest Management:** Applicants should have a Ph.D. degree. The successful applicant will be expected to assist in the further development of the current research programme in pesticide and pest management, teach in the undergraduate programme in these areas, and to oversee the operations of a laboratory equipped to do pesticide residue detection. He/she would also be expected to undertake some general teaching in zoology. Further particulars of the post and the Department are available at **website: www.uwimona.edu.jm**. Two detailed applications giving full particulars of qualifications and experience, date of birth, marital status, nationality, and the names and addresses of three references should be sent to: **The Campus Registrar, Attention: Senior Assistant Registrar (Appointments), The University of the West Indies, Mona, Kingston 7, Jamaica, West Indies.**

The final date for receipt of all applications is August 15, 2000.

In order to expedite the appointment procedure, applicants are requested to ask their references to send confidential reports directly to the University without waiting to be contacted. Only suitable applications will be acknowledged.

### ASSISTANT PROFESSOR (TENURE TRACK) THE UNIVERSITY OF TEXAS M.D. Anderson Cancer Center

The Department of Molecular Therapeutics at The University of Texas M.D. Anderson Cancer Center is seeking two tenure-track Assistant Professors with expertise in molecular biology to conduct studies related to the genetics and biology relevant to women's cancer. The selected candidates will be responsible for establishing their own laboratory and will be expected to obtain independent peer-reviewed grant funding. Applicants must be eligible to apply for federal grants. Competitive start-up packages and space are available.

Interested applicants should send a letter describing their research interests and curriculum vitae to: **Gordon B. Mills, M.D., Ph.D., Chairman, Department of Molecular Therapeutics, Box 317, The University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.**

*University of Texas M.D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke-free environment. Women and minority candidates are encouraged to apply.*

### NMR SPECTROSCOPIST

The NMR Center for Research and Development at the University of Alabama at Birmingham is seeking applicants for two open-rank **FACULTY POSITIONS**. Applicants with strong training and experience in high-field NMR spectroscopy including  $^{13}\text{C}$ ,  $^1\text{H}$ , and  $^{31}\text{P}$  will be given preference. The successful candidates will be expected to develop an independent and funded research program, collaborate with a highly interactive and productive group of investigators, and participate in an existing 4 Tesla NIH Research Resource Program (NCRR). Excellent laboratory space and generous start-up funds are available. Please send curriculum vitae, letters from three references, and a brief statement of your research interests to: **Gerald M. Pohost, M.D., Director, Center for NMR Research and Development, BDB 105, University of Alabama at Birmingham Station, Birmingham, AL 35294-0012.** *University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### POSITION AVAILABLE RESEARCH DIRECTOR

**The Institute of Environmental and Human Health**

An opening is available at the rank of **PROFESSOR**, tenure track, in The Institute of Environmental and Human Health (TIEHH) at Texas Tech University/Texas Tech University Health Sciences Center. The successful candidate must be either a Ph.D. or M.D., qualify for the rank of Professor, and have prior experience in directing large research groups or serving as a department chairperson. He/she must have demonstrated experience working on defense-related research projects at the national level and securing for grants in this area. This position requires an individual with broad background and the proven ability to oversee multiple research projects and obtain funding for them. The recruited individual will serve as the Research Director of the newly formed Admiral Elmo Zumwalt Jr. Program for Countermeasures Against Biological and Chemical Threats at TIEHH. The applicant must possess strong written and verbal communication skills and be able to develop external academic and private research partnerships and interface with graduate and postgraduate trainees. Applications will be accepted until the position is filled. Position number: 2001TLF081. Send letter of interest, curriculum vitae, and three letters of support to:

**Dr. Louis A. Chiodo**  
**Assistant Director for Science**  
**The Institute of Environmental and Human Health**  
**Box 41163**  
**Lubbock, TX 79409-1163**

*Texas Tech University is an Affirmative Action/Equal Employment Opportunity Employer.*

### CELLULAR INFORMATICS

Biologist with computer expertise and curiosity to play a key role in the Alliance for Cell Signaling (AFCS). See **website: http://afcs.swmed.edu/**. This is an NIH-funded multiuniversity research project focused on signaling in B lymphocytes and cardiac myocytes. Task: facilitate communication among AFCS laboratories and bioinformaticists and manage/analyze large data sets for internet publication. Academic position in Specialist series; compensation package highly competitive. Must have a Doctoral degree (or the equivalent in experience) in biology and/or computer science. Apply before August 31, 2000, to: **Henry R. Bourne and Shaun Coughlin, c/o Angela Friday, Department of Cellular and Molecular Pharmacology, University of California, Box 0450, 513 Parnassus, San Francisco, CA 94143.** *Women and other minorities encouraged to apply.*

GenePharm, a DNA chip/genomic startup in silicon Valley, California, is a well-financed biotech company that develops advanced biochips for biopharmaceutical discovery. We are seeking talented people for the following positions: **VICE PRESIDENT FOR MARKETING:** minimum of two years of experience in sales and marketing in a biotech company (Job Code A001). **RESEARCH SCIENTIST:** Ph.D. in biology or chemistry with minimum of one year in DNA expression chip design and manufacturing or DNA expression chip application (Job Code B012, B014). We offer competitive salary, benefits, and generous stock option. Please send your résumé with three references to: **FAX: 408-773-1018; e-mail: genechip\_99@yahoo.com.**

### OPENING FOR BIOCULTURAL ANTHROPOLOGIST

The University of California, Santa Barbara, Department of Anthropology, seeks a Biocultural Anthropologist with an empirical, Darwinian focus for a tenure-track position at the **ASSISTANT PROFESSOR** level; possible specializations include but are not limited to human behavioral ecology and evolutionary psychology. For primary consideration, apply by November 30, 2000. For details, see **website: http://www.anth.ucsb.edu/jobs/**.





## Nucleotide Analog Pharma

NAP AG is a newly founded pharmaceutical company with a strategic focus on drug intervention for cytoskeletal disturbances of neurons, most notably Alzheimer's disease. Its facilities are conveniently located in the heart of Munich, Germany. With intellectual property from industrial and academic centers of excellence and solid financial backing, an outstanding career opportunity has become available to build a team of superbly talented and motivated scientists.

### Senior Scientist Pathology

You are a young, ambitious scientist well versed in CNS-related lesion models and surgical techniques, especially motivated by working on challenging medical problems. You are looking to contribute your expertise in one of several of the following areas:

- Histological techniques and immunohistochemistry to the CNS
- Analysis and interpretation of anatomical and cyto-morphological abnormalities in disease and toxicity
- Strong experimental skills and involvement
- Understanding of molecular rationales and techniques

#### We offer

- Competitive salary
- Participation in a generous stock option program
- A dynamic and ambitious environment in a desirable location
- A key position in shaping new therapeutic approaches in a new company

Qualified applicants please send a CV with two relevant references and a letter of interest stating your career objectives to **NAP AG, Landsberger Str. 50, 80339 Munchen, Germany**, or fax to **+49-89-50808279**



## University of Zurich

The Faculty of Sciences of the University of Zurich invites applications for the position of a

### PROFESSOR OF PHYSICAL CHEMISTRY

(succession of J.R Huber, tenured or tenure track position). Ideally, research activities would focus on experimental physical chemistry, for instance in the field of molecular dynamics and/or time-resolved spectroscopy, but related subjects will also be considered. Experimental facilities at the Paul Scherrer Institute near Zurich may be used. Besides active research we expect the participation in physical chemistry teaching at all levels and possibly in the directorship of the Institute for Physical Chemistry.

Please submit applications with a curriculum, a list of publications with reprints of five publications, details of teaching experience and a short program of intended research before August 31, 2000 to the Dekan der Mathematisch-Naturwissenschaftlichen Fakultät der Universität Zürich, Prof. Dr. K. Brassel, Winterthurerstrasse 190, CH-8057 Zürich.

For further information, please contact:

Prof. Dr. S. Seeger, Tel. +41-(0)1-635 44 51, Email [sseeger@pci.unizh.ch](mailto:sseeger@pci.unizh.ch)  
Physikalisch-Chemisches Institut, Winterthurerstrasse 190, CH-8057 Zürich

Suggestions for suitable candidates are also welcome.

## ANNOUNCEMENTS



### TELETHON/JDF CENTERS FOR STUDY OF TYPE 1 DIABETES IN ITALY

#### CALL FOR LETTERS OF INTENT

Telethon and the Juvenile Diabetes Foundation International (JDF) are pleased to announce a new joint research program in Italy to foster multi-disciplinary research targeted at finding a cure for Type 1 diabetes. Telethon and JDF would like to establish Centers in Italy to support research in Type 1 diabetes, particularly in genetics and genomics, immune modulation, islet transplantation, genetic engineering and gene therapy.

Interested parties should refer to: the Telethon Web site, <http://www.telethon.it>, or to the JDF Web site, <http://www.jdf.org/research/rschinfo.html#applicants>, for the full text of this RFP.

Submit letters of intent addressed to:

*Dr. Francesca Pasinelli, Chief Scientific Officer,  
Comitato Telethon Fondazione Onlus  
Via Calzecchi, 10, 20133 Milano, Italy,  
Phone 39 02 70005931, Fax 39 02 70005947  
Email: [fpasinelli@mail.telethon.it](mailto:fpasinelli@mail.telethon.it)*

Letters of intent are due no later than October 15, 2000, and applicants will be notified by October 31, 2000.



### Lecturer/Senior Lecturer in Animal Evolutionary Ecology Cardiff School of Biosciences

As part of its continuing drive to strengthen all of its areas of biological research, the Cardiff School of Biosciences now seeks a world class research scientist in animal ecology, preferably with an interest in evolutionary ecology. Your work will span the interface between classical ecology, conservation and molecular ecology to take advantage of opportunities for inter-disciplinary collaboration in the School. Sufficient flexibility to consider terrestrial and freshwater environments will maximize the opportunities for intra-departmental collaboration. Exceptional candidates may be considered for a Senior Lectureship.

**Lecturer salary: £17238 - £30065 per annum**

**Senior Lecturer salary: £31563 - £35670 per annum**

Informal enquiries can be made to Professor Martin Evans,  
email [evansmj@cardiff.ac.uk](mailto:evansmj@cardiff.ac.uk) or Dr Mike Bruford,  
email [BrufordMW@cardiff.ac.uk](mailto:BrufordMW@cardiff.ac.uk)

For an application pack please ring the Personnel Division  
+ 44 (0) 29 2087 4017 or email [Persad1@cardiff.ac.uk](mailto:Persad1@cardiff.ac.uk) quoting  
vacancy number 250.

**Closing Date: 21 August 2000**

## POSITIONS OPEN

### RESEARCH ASSISTANT PROFESSOR AND POSTDOCTORAL FELLOWSHIP LUNG AND VASCULAR BIOLOGY University of Illinois at Chicago College of Medicine Department of Pharmacology

Positions as Research Assistant Professor and Postdoctoral Research Associate are available for individuals with research expertise in any of the following areas: vascular endothelial barrier function, mechanisms of expression of endothelial adhesion molecules, role of neutrophils and oxidant mechanisms of vascular injury, signaling in endothelial cells, signaling activated by oxidants and growth factors in endothelial cells, cell-cell interactions in the microcirculation, and mechanisms of leukocyte migration across vascular barrier. The successful candidate will have Ph.D. or M.D., credible publication record, and potential for independent funding and tenure-track position. For fullest consideration, qualified candidates should submit their curriculum vitae and three letters of reference no later than September 1, 2000, to: **A. B. Malik, Ph.D., Professor and Head (RAP/PD), Department of Pharmacology, University of Illinois, 835 South Wolcott Avenue, Room E403 (M/C 868), Chicago, IL 60612. E-mail: abmalik@uic.edu.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

### STAFF SCIENTIST POSITION NATIONAL INSTITUTE ON AGING Molecular Biology/Cancer Biology

Renewable position with an initial five-year appointment for highly motivated individuals with strong background in cellular and molecular biology. Experience in DNA damage and repair and cancer biology a plus but not required. The incumbent will have major roles in training staff and Postdoctoral Fellows and maintaining research continuity within the laboratory. Salary range is from \$55,837 to \$85,000 depending on experience, scientific credentials, and publication record.

Candidates for this position must have a Ph.D. or M.D. Deadline for application is August 26, 2000. Send curriculum vitae and three reference letters to: **Chair, LMG Staff Scientist Search Committee, c/o Karen Maben, Personnel Office, National Institute on Aging, NIH, Box 26, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825 (Attention: VA#NIA-0027).** For further information, contact: **Michelle K. Evans, M.D., Deputy Scientific Director, Laboratory of Molecular Genetics, FAX: 410-558-8268; e-mail: me42v@nih.gov.** *NIH is an Equal Opportunity Employer.*

### CANADIAN TECHNICAL SALES REPRESENTATIVE

Integrated DNA Technologies, Inc., a leading supplier of custom oligonucleotide synthesis and a developer of innovative new biotechnologies, is looking for a dynamic and self-motivated individual to add to its growing International Sales Department. Responsibilities include direct outside sales to academic, government, and industry accounts throughout the Toronto, Ottawa, and Montreal area. Must have more than three years of sales experience in the life science industry or strong academic credentials in molecular biology. Please send your résumé to: **ewalder@idtdna.com.**

**POSTDOCTORAL POSITIONS** in biomolecular NMR are available to investigate the structure, dynamics, and molecular interactions of cell cycle regulation proteins using modern solution NMR methods. Candidates with expertise in heteronuclear multidimensional NMR methods or in pulse program development are preferred. E-mail curriculum vitae and names of three references to: **sudha@scripps.edu** or contact: **Dr. Sudha Veeraraghavan, Structural Biology Center, Department of Biochemistry and Molecular Biology, University of Texas-Houston Medical School, 6431 Fannin, Houston, TX 77030.** *Equal Opportunity Employer/Affirmative Action/SSP. Women and minorities encouraged to apply.*

## POSITIONS OPEN

### DEAN, COLLEGE OF SCIENCE AND ENGINEERING SAN FRANCISCO STATE UNIVERSITY

Nomination and applications are invited for the position of Dean of Science and Engineering at San Francisco State University. The Dean is the chief academic, fiscal, and administrative officer of the College and has responsibility for curriculum planning and development, faculty and staff evaluation and development, budget, and facilities. Applicants must possess an earned Doctoral degree in a relevant field; an outstanding record of scholarship, research, and teaching; and administrative experience in higher education and/or professional experience.

The College offers programs at the undergraduate and Master's degree levels through the Departments of Biology, Chemistry and Biochemistry, Computer Science, Geosciences, Mathematics, Physics and Astronomy, and the School of Engineering. In addition, as part of its commitment to research, the College operates the Sierra Nevada field campus at Yuba Pass, the Romberg Tiburon Center for Environmental Studies on San Francisco Bay, and participates in a consortium of California universities at The Moss Landing Marine Laboratories. The College is made up of approximately 175 full-time equivalent faculty and 3,500 students.

San Francisco State University is a large, comprehensive, diverse university located in an unusually vibrant and beautiful city. Through its nine Colleges, San Francisco State University offers 118 undergraduate degrees, 97 graduate degrees, and two joint Doctoral degrees offered with University of California, Berkeley. San Francisco State University is part of the 23-campus California State University system.

The starting date for this position is no later than fall semester 2001. Applications will be reviewed beginning October 2, 2000, and will be accepted and evaluated until the position is filled.

For a complete position description and application procedures, visit the California State University Employment website: **www.sfsu.edu/~hrwww/jobs/career.htm** or contact: **the Office of the Provost, San Francisco State University; Telephone: 415-338-1141.**

### CONSERVATION SCIENTIST

The Department of Conservation and Scientific Research, Freer Gallery of Art/Arthur M. Sackler Gallery, Smithsonian Institution, has available a short-term position to work in a research program devoted to the study of East Asian paintings using scientific methods. We are looking for a person with a good research background in the physical sciences who can develop novel approaches to research in this area as well as use existing methods. Doctoral-level qualifications or equivalent would be appropriate; previous experience in the field is desirable but not essential. *Applicants should be U.S. citizens or permanently resident noncitizens.* The position is full-time at Grade IS-11, with starting salary \$42,724 plus benefits; the appointment will be for one year in the first place with the possibility of renewal. Applications (including curriculum vitae and names and addresses of three references) and inquiries to: **John Winter, Department of Conservation and Scientific Research, Freer/Sackler Galleries, Smithsonian Institution, Washington, DC 20560-0707. Telephone: 202-357-4880, extension 279; e-mail: wintejo@asia.si.edu.** *The Smithsonian is an Equal Opportunity Employer.*

**BIOPROCESS ENGINEER** is wanted by research and development facility for products from genomic research in Rockville, Maryland. Must have B.S. in bio/chemical engineering and five years of experience or M.S. and two years of experience conducting bioprocess and technology research, development production, and scale-up. Respond to: **Human Resources Department, Code Number AK 001, 9410 Key West Avenue, Rockville, MD 20850-3331.**

## POSITIONS OPEN

### MICROBIOLOGIST

The U.S. Department of Health and Human Services (DHHS), Food and Drug Administration (FDA), National Center for Toxicological Research (NCTR), Division of Microbiology, is seeking a **RESEARCH MICROBIOLOGIST** with expertise in food microbiology and anaerobic bacteriology to continue ongoing work in the following general research areas: (1) molecular genetics of antibiotic resistance, (2) molecular approaches for the detection of foodborne pathogens, and (3) effects of antimicrobials on human intestinal microflora. NCTR is a research facility of FDA and is located 35 miles south of Little Rock, Arkansas. This is a permanent U.S. civil service position at the GS-13 level with a salary range of \$59,623 to \$77,507. *Requirements include U.S. citizenship and a Ph.D. in microbiology; relevant experience in food microbiology, anaerobic bacteriology, biochemistry, gene expression/regulation, and microbial genetics is desired.* Please send or FAX résumé to: **Mr. Dick King; FDA-NCTR Personnel Office, 3900 NCTR Road, Jefferson, AR 72079. Mr. King can be contacted by Telephone: 870-543-7475; FAX: 870-543-7711; e-mail: DKing@nctr.fda.gov.** Applications must be postmarked by August 31, 2000. *FDA-NCTR is an Equal Opportunity Employer.*

### RESEARCH OPPORTUNITY SCIENTIST I/II

Excellent opportunity to develop leadership potential and contribute to a long-term strategic plan. The Mesoscale and Microscale Meteorology Division (MMM) at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, seeks **PH.D. SCIENTIST** to conduct fundamental research in areas of relevance to the MMM program. Specific areas of interest include but are not limited to mesoscale data assimilation; ensemble forecasting; mesoscale predictability; and work leading to physically based parameterization of land-atmosphere interaction, ocean-atmosphere interaction, clear and cloudy boundary layer processes, convection, microphysical processes, and/or the radiative/dynamic effects of clouds. For a complete job description, access website: **www.ucar.edu/hr/employment/0126.html.** Initial consideration will be given to applications received prior to August 31, 2000, but applications will be accepted until the position is filled. To apply online, use website: **http://recruiter1.webhire.com/ucar.ncar** (source code 0126); e-mail: **ucar.ncar@rpc.webhire.com.** *Universal Corporation for Atmospheric Research is an Equal Opportunity/Affirmative Action Employer.*

### RESEARCH POSITIONS DEVELOPMENTAL NEUROBIOLOGY University of North Carolina at Chapel Hill Neuroscience Center

Research positions are available immediately to study cell adhesion/growth factor regulation of neuronal migration and radial glial development in mammalian cerebral cortex. **POSTDOCTORAL POSITIONS** are available for highly motivated individuals with substantial experience in molecular biology and neuroscience. We are also seeking a **RESEARCH TECHNICIAN** with a strong background in molecular biology to assist our research group. Applicants must have demonstrated expertise in cloning. Salary and fringe benefits will be highly competitive. Apply with curriculum vitae and names of references to: **Dr. Eva S. Anton, University of North Carolina Neuroscience Center, CB#7250, Room 7023 Neurosciences Hospital, Chapel Hill, NC 27599-7250. FAX: 919-966-1844.**

**RESEARCH ASSISTANT PROFESSOR**, non-tenure track, to work on cell biology of the vascular system in the aging brain and in brain tumors. Candidates with previous experience in vascular cell biology are encouraged to apply. Salary commensurate with experience. Résumés to: **Dr. Berislav Zlokovic; Berislav.Zlokovic@urmc.rochester.edu.** *The University of Rochester is an Equal Opportunity Employer.*



## ALBERT-LUDWIGS- UNIVERSITÄT FREIBURG

At IMTEK, the Institute for Microsystem Technology, Faculty for Applied Sciences, Albert Ludwig University Freiburg, a position as

### Post-doctoral Scientist

is available starting 1 October 2000. The remuneration is according to the German BAT IIa salary scale. The position is available for 3 years. In this European research project we are developing innovative micro-pyro-electrical devices for medical and space applications. The successful candidate will develop the necessary theory and application-oriented simulation programs. To ensure an optimal coordination of the project work with our European partners, an independent working style is required. The position requires a Ph.D. in engineering or the natural sciences (chemistry, physics or mathematics). Previous experience with numerical simulation is essential. A good working knowledge of OO programming (preferably C++) is of advantage.

The Albert Ludwig University strives to increase the number of women in science and therefore expressly encourages qualified female scientists to apply for the post.

Disabled persons with equivalent qualifications are preferentially treated.

Please send your written applications with CV, publications list, table of completed projects, the names of two references, telephone number and a short description of your research interests to:

Prof. Dr. Jan G. Korvink  
IMTEK-Institute for Microsystem Technology  
The Albert Ludwig University Freiburg  
Georges-Köhler-Allee 103  
D-79110 Freiburg, Germany  
korvink@imtek.uni-freiburg.de

## MEETINGS

### HHMT

#### TRAVELLING FELLOWSHIP HELENE HARRIS MEMORIAL TRUST OVARIAN CANCER FORUM 2001

MD Anderson Cancer Center, Houston, USA. March 19th - 23rd 2001

The HHMT has organised biennial international scientific meetings to advance research in ovarian cancer since 1987. These meetings are now established as the key forum for both clinical and basic science research information exchange in ovarian cancer.

HHMT meetings bring together the most prestigious researchers and clinicians who are invited on the basis of their reputation and research contribution. The intention is to broaden the scope of participants and provide the opportunity to present recent and novel advances.

Now the HHMT is providing the opportunity to younger clinicians and researchers to join their peers and present their work, both to the participants at the HHMT Forum and the audience to whom presentation papers and recommendations will be distributed via journals and the internet. To achieve this objective the HHMT will be granting Fellowships, which will include travel and accommodation for the duration of the Forum. Entry is available to qualified applicants from all parts of the world.

Applications are invited for **6 travelling fellowships, which will be selected by peer review and can involve any aspect of basic science or clinical research related to ovarian cancer**. Applicants should submit an abstract describing the background, methodology and results of their **original research** of no more than 1,000 words. The closing date for applications is September 30th 2000 and applicants will be notified of the outcome in October 2000. The successful applicants will be expected to attend and participate in the entire HHMT meeting where a prize will be awarded for the best contribution.

Applicants should be sent to: -

Professor Ian Jacobs, St Bartholomew's Hospital, London EC1A 7BE, UK  
Fax +44(0) 20 7601 8261, e-mail i.j.jacobs@mds.qmw.ac.uk  
[www.hhmt.org.uk](http://www.hhmt.org.uk)

## SYMPOSIA



### International symposia organized by the Marcel Mérieux Foundation

#### PRION DISEASES AND RELATED PROCESSES

Les Pensières, Veyrier-du-Lac (near Annecy, French Alps)  
12-16 November 2000

*The purpose of this conference is to bring together scientists from a wide range of disciplines concerned with prion and related diseases in order to make a critical review of the current knowledge, and to compare opinions, research hypotheses and methodologies.*

#### AUTOIMMUNITY INDUCED BY INFECTION OR IMMUNIZATION

Les Pensières, Veyrier-du-Lac (near Annecy, French Alps)  
28 November - 1 December 2000

*The purpose of this symposium is to gather scientists in the area of autoimmunity and infection, to review data linking infection/immunization to autoimmune diseases in the light of the mechanisms of autoimmunity, to assess their validity, and to apply newer scientific knowledge to risk evaluation and prevention.*

#### EMERGENCE AND CONTROL OF ZOO NOTIC ORTHO- AND PARAMYXOVIRUS DISEASES

Les Pensières, Veyrier-du-Lac (near Annecy, French Alps)  
13-15 December 2000

*The purpose of the symposium is to gather scientists in the area of ortho- and paramyxoviral diseases, in order to review the various parameters involved in the pathogenesis and virulence, to establish the mechanisms of emergence and possible spread of infectious agents and to study strategies for preventing and/or controlling the diseases.*

#### Information and registration

Fondation Mérieux  
17 rue Bourgelat, BP 2021, 69227 Lyon Cedex 02,  
France.

Fax: 33 (0) 4 72 40 79 50

E-mails: [bdodet@fond-merieux.org](mailto:bdodet@fond-merieux.org) &  
[symposium@fond-merieux.org](mailto:symposium@fond-merieux.org)

Web site: <http://www.fond-merieux.org>

## POSITIONS OPEN

### POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

NIH-funded position available to investigate vasoconstrictor signal transduction mechanisms in arterial smooth muscle (*J. Physiol. (London)* 524:821-831, 2000). Background in molecular/biochemical methods, microcirculatory techniques, and/or electrophysiology required. Applicants should submit (1) curriculum vitae, (2) a statement of current research activities, and (3) names of three references to: **Dr. Kenneth L. Byron, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153.** Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer and Educator.

### POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the molecular basis of BHV-1 and BHV-5 differential neuropathogenesis. We are examining the role of envelope glycoproteins. Experience in molecular virology and/or neuroscience and molecular biology is preferred. Send curriculum vitae and e-mail addresses of three references to: **Shafiqul Chowdhury, D.V.M., Ph.D., Pathobiology, Coles Hall 307, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506.** E-mail: Chowdh@vet.ksu.edu.

### POSTDOCTORAL POSITION MOLECULAR NEUROPHARMACOLOGY

A position is available within the NIH Intramural Research Program for investigating the cellular and molecular characteristics of dopamine receptors. See website: [http://intra.ninds.nih.gov/Lab.asp?Org\\_ID=67](http://intra.ninds.nih.gov/Lab.asp?Org_ID=67) for further information on research. Candidates should have received their Doctorate degree within the past five years and have some experience in molecular and/or pharmacological techniques. Please send cover letter and curriculum vitae to: **Dr. David R. Sibley;** e-mail: [sibleyd@ninds.nih.gov](mailto:sibleyd@ninds.nih.gov).

**POSTDOCTORAL POSITION** available at UCLA for recent Ph.D. Projects include RNA editing and importation of tRNAs in trypanosome mitochondria (website: <http://www.lifesci.ucla.edu/hhmi/simpson/research.htm>). Forward curriculum vitae and three letters to: **Dr. Larry Simpson, Microbiology, Immunology, and Molecular Genetics, UCLA, 6780 MRL, 675 Charles Young Drive South, Los Angeles, CA 90095.** E-mail: [simpson@hhmi.ucla.edu](mailto:simpson@hhmi.ucla.edu).

**POSTDOCTORAL POSITION:** A Postdoctoral position is available at a Seattle-based research laboratory to study neurodegenerative and apoptotic processes in the vertebrate nervous system. Send curriculum vitae and references to: **Dr. Patric Clapshaw, Solomon Park Research Institute, 12815 N.E. 124th Street, Suite 1, Kirkland, WA 98034.** E-mail: [pclapshaw@solomon.org](mailto:pclapshaw@solomon.org).

**POSTDOCTORAL POSITION** available in areas: (1) regulation of human DNA replication and repair of chromosomal damage and (2) mechanisms by which reverse transcriptase uses its polymerase and RNase H activities in replication and recombination. Strong background in biochemistry and experience in molecular biology required. Send curriculum vitae and three recommendations to: **Dr. Robert Bambara, Biochemistry and Biophysics, Box 712, University of Rochester, Rochester, NY 14642.** Website: [www.urmc.rochester.edu/smd/bcbp](http://www.urmc.rochester.edu/smd/bcbp).

**PROJECT LEADER** wanted by biotechnology company in New Haven, Connecticut. Develop and direct implementation of genomics technology and oversee research and development projects for gene expression analysis, full-length cloning, SMP analysis, and mass spectrometry-based DNA analysis. Must have Ph.D. in medical science or closely related field. Respond to: **Human Resource Department, CuraGen Corporation, 555 Long Wharf Drive, New Haven, CT 06405.**

## POSITIONS OPEN



The Agricultural Research Service, Henry A. Wallace-Beltsville Agricultural Research Center, Vegetable Laboratory, in Beltsville, Maryland, is seeking a permanent, full-time **RESEARCH PLANT PATHOLOGIST.** Salary: GS-12, \$51,204 to \$66,564 per annum; GS-13, \$60,890 to \$79,155 per annum plus benefits. *Candidates must be U.S. citizens.* Research focuses on designing and creating disease-resistant potato germplasm and developing the basic and applied knowledge needed to detect, identify, evaluate, and characterize bacterial, fungal, and viral pathogens of potato and other vegetables. Candidates must request a copy of the vacancy announcement ARS-XOE-4018 by either calling **Telephone: 301-504-1484** or by copying the full text announcement from website: [www.ars.usda.gov](http://www.ars.usda.gov) in order to respond/submit specific information outlined in the announcement. Applications must be postmarked by August 11, 2000. *USDA/ARS is an Equal Opportunity Provider and Employer.*

### POSTDOCTORAL FELLOW UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE

NCI-funded laboratory seeking Postdoctoral Fellow to contribute to ongoing research on nutrient control of cancer cell stress response, proliferation, apoptosis/necrosis, and gene expression. Applicants must have a Ph.D. with experience in cell culture, molecular biology, and biochemical techniques. Experience in apoptosis and flow cytometry is desirable. Competitive salary. For best consideration, please submit curriculum vitae with names of references by August 15, 2000, to: **Steve F. Abcouwer, Department of Biochemistry and Molecular Biology, University of New Mexico School of Medicine, BMSB-253, 915 Camino de Salud, N.E., Albuquerque, NM 87131.** The University of New Mexico is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIPS:** Michigan Society of Fellows Postdoctoral Fellowships program is offering three-year Fellowships at the University of Michigan to begin September 2001. Annual stipend will be \$40,000. Application postal deadline: October 6, 2000. Information and applications are available online at website: [www.rackham.umich.edu/Faculty/society.html](http://www.rackham.umich.edu/Faculty/society.html). Write to: **Society of Fellows, 3030 Rackham Building, University of Michigan, 915 East Washington Street, Ann Arbor, MI 48109-1070.** Website: [society.offellows@umich.edu](http://society.offellows@umich.edu). No e-mail applications accepted.

**POSTDOCTORAL POSITION** available to study reconstitution of antiviral immune responses in the absence of a functional T helper cell compartment (*Nature* 393:480, 1998). Applicants should have a Ph.D. and experience in virology or cellular immunology. Interested individuals should send their curriculum vitae and the names and addresses of three references to: **Dr. Stephen Schoenberger, Division of Immune Regulation, La Jolla Institute for Allergy and Immunology, 10355 Science Center Drive, San Diego, CA 92121.** Telephone: 858-678-4574; FAX: 858-558-3525; e-mail: [sps@liai.org](mailto:sps@liai.org); website: <http://www.liai.org>.

### POSTDOCTORAL POSITION CELL CYCLE AND CANCER UNIVERSITY OF PENNSYLVANIA

A Postdoctoral position is available to study the role of cyclin dependent kinases and p16<sup>INK4a</sup> in control of the human cell division cycle. Please send curriculum vitae and contact information for three references to: **Dr. Greg H. Enders, Departments of Medicine and Genetics, University of Pennsylvania, 600 CRB, 415 Curie Boulevard, Philadelphia, PA 19104-6144.** E-mail: [endersgh@mail.med.upenn.edu](mailto:endersgh@mail.med.upenn.edu).

## POSITIONS OPEN

### PROFESSOR AND CHAIR OF BIOCHEMISTRY

#### VIRGINIA COMMONWEALTH UNIVERSITY

The Department of Biochemistry and Molecular Biophysics at Virginia Commonwealth University's School of Medicine, a Carnegie Foundation Research I Institution, is seeking an exceptional candidate for the position of Professor and Chair. The candidate must have a significant documented record of achievement in research and educational training as well as evidence of strong management skills. A history of successful extramural funding is essential. The successful candidate will have excellent oral, written, and interpersonal skills and provide creative leadership and vision for the Department. Current research areas in the Department include gene regulation, cell cycle control, RNA metabolism, neuroscience, structural biology, lipid biochemistry, and enzymology. Research space and the opportunity to hire new faculty are available. Additional information about the Department of Biochemistry may be obtained on the Internet at website: <http://views.vcu.edu/biochem>.

A strong interaction exists between the Department and the NCI-designated Massey Cancer Center and the Institute for Structural Biology and Drug Discovery. Collaborative opportunities exist with developing programs such as Functional Genomics and the University's Life Sciences Initiative. The new Chair is expected to encourage multidisciplinary research with these programs and centers.

Applications are now being accepted, and the position will remain open until a suitable candidate is identified. Interested applicants are encouraged to send curriculum vitae to:

**Joy L. Ware, Ph.D.**  
**Professor of Pathology and Chair, Biochemistry Search Committee**  
**Virginia Commonwealth University**  
**P.O. Box 980662**  
**Richmond, VA 23298-0662**

*Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

### POSTDOCTORAL POSITION

The Beckman Research Institute of the City of Hope has an exciting opportunity in the laboratory of **Dr. Gerd P. Pfeifer**, Department of Biology. Candidate will work in the field of cancer biology, DNA repair, and mutagenesis in mammalian cells. A Ph.D. and experience in molecular biology are required. Please send cover letter, curriculum vitae, and names and contact information of three references to: **Attention: Ileana Abich, Needleman Building, Room 209, City of Hope, 1500 East Duarte Road, Duarte, CA 91010-3000.** FAX: 626-930-5394; e-mail: [iabich@coh.org](mailto:iabich@coh.org). *Equal Opportunity Employer.*

Funded **POSTDOCTORAL POSITIONS** available immediately (1) to investigate the structure and transport of telomerase RNPs in normal and cancer cells and (2) to investigate the structure and function of rRNA modification guide RNPs in *Xenopus laevis* and the hyperthermophilic *Archaeon Pyrococcus furiosus*. Experience in molecular biology and protein biochemistry desired. Send curriculum vitae to: **Michael and Rebecca Terns, Biochemistry and Molecular Biology, University of Georgia, Life Sciences Building, Athens, GA 30602.** FAX: 706-542-1752; e-mail: [mterns@bchiris.bmb.uga.edu](mailto:mterns@bchiris.bmb.uga.edu).

**POSTDOCTORAL POSITION** available to investigate the use of growth factors to generate CNS repair in demyelinating disease. Applicants must have experience in molecular biology and glial cell pathology. Send curriculum vitae and three references to: **Dr. Saud A. Sadiq, St. Luke's-Roosevelt Hospital Center, Columbia University, Antenucci Building, 432 West 58th Street, Room 117, New York, NY 10019.** FAX: 212-523-8859. *Equal Opportunity Employer.*



Our challenge is life.

Aventis Pharma was recently formed by the merger of Hoechst Marion Roussel and Rhône-Poulenc Rorer. Aventis Pharma ranks as one of the world's leading life science companies and is dedicated to extending and enhancing human life through the discovery, development, manufacture and sale of pharmaceutical products. Aventis Pharma offers the power of global forces in pharmaceutical products and services, an excellent financial standing and a vision for the future that is unmatched in the industry. Due to rapid and exciting advancements in new technologies for discovering and developing novel leads, we must expand our worldwide capacity in medicinal chemistry to accelerate the optimization of these leads into development compounds which will ultimately bring new pharmaceutical products to the market. We are currently looking for highly motivated candidates to fill several openings in our research center in Vitry (Paris, France).

## Research Scientists/Senior Research Scientists Section Heads

These positions require the candidate to possess a Ph.D. in organic/medicinal chemistry; candidates with post-doctoral or industrial experience are preferred and practical experience in solid phase and/or solution phase parallel synthesis is also a strong plus. The responsibilities will include working as part of a multidisciplinary team in implementing state-of-the-art technologies toward the design and the synthesis of small molecule drug candidates. You must have excellent problem solving and interpersonal skills to work in a highly collaborative environment within a project team driven organization. The candidate will possess capacity and enthusiasm for doing modern experimental medicinal chemistry. Good knowledge of French and English is highly preferred.

Qualified candidates will possess a Ph.D. in organic/medicinal chemistry, post-doctoral experience and a 5-10 year experience in a pharmaceutical company with demonstrated success in solving medicinal chemistry problems. Experience in solid phase and solution phase parallel synthesis is also a plus. You will be in charge of leading a team of 6-9 medicinal chemists in the design and synthesis of small molecule drug candidates in hit-to-lead and lead optimization phases. The candidate must have a demonstrated leadership and excellent communication skills and be able to work in a highly collaborative environment within a multidisciplinary project team driven organization. Good knowledge of French and English is strongly appreciated.

We offer an innovative and stimulating scientific environment and excellent opportunities for career development. We also offer a competitive salary and a bonus package which will suit your qualifications. For application, please send a résumé indicating your full career details to:

**Isabelle Amalzieu (isabelle.amalzieu@aventis.com), Aventis Pharma, 13 quai J.-Guesde,  
BP-14, F-94403 Vitry-sur-Seine, France.**

MEDIASYSTEM



**Pierre  
Fabre**



**8000 staff  
annual turnover  
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## Centre d'Immunologie Pierre Fabre (CIPF)

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## POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** are available in the Laboratory of Membrane Biochemistry and Biophysics, Division of Intramural Clinical and Biological Research, National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health. Protein-lipid interactions involved in cell signaling are investigated using biochemical, immunochemical, and mass spectrometric approaches. Candidates must have a Ph.D. degree with less than five years of postdoctoral experience. For the first position, training in liquid chromatography/mass spectrometry with biochemistry background is highly desirable. For the second, experience in biomolecular interaction studies with cell biology background is desirable. Competitive salary will be offered based on area of expertise and research experience. Send your curriculum vitae and three reference letters to:

**Dr. Hee-Yong Kim**  
Chief, Section of Mass Spectrometry  
LMBB, NIAAA, NIH  
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E-mail: hykim@nih.gov

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## POSTDOCTORAL POSITION AVAILABLE MOLECULAR GENETICS OF PULMONARY INJURY

Positions are available for interested Postdoctoral Fellows to work on NIH-funded research on the genetics of pulmonary injury. The laboratory uses recently developed tools and methodology for identifying genetic susceptibility loci regulating pulmonary injury after radiation and chemotherapeutic agents in well-established experimental mouse genetic models of pulmonary injury. Genotyping methodology, gene expression microarrays, and bioinformatic tools are used to identify regulatory genetic loci. Required experience includes a Ph.D. or equivalent degree. Training in genetics, bioinformatics, genomics, or pulmonary pathobiology is preferred. Interested individuals should send their résumé today and a letter supporting their candidacy to: **Dr. Elizabeth Travis, M.D., Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.** Alternatively you may e-mail: [etravis@mdanderson.org](mailto:etravis@mdanderson.org); FAX: 713-794-5369. Training grant opportunities are available.

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The Infectious Disease Research Institute (IDRI) is seeking Ph.D. and/or M.D. **POSTDOCTORAL SCIENTISTS** to join our efforts in the diagnosis, treatment, and prevention of human infectious diseases. Successful candidates will have a cellular immunology background and work on the development of vaccine candidates for tuberculosis. Skills in human lymphocyte activation and cytokine biology are preferred. IDRI offers competitive salary and benefits in a progressive work environment. Please send curriculum vitae, statement of research interest and experience, and names of three references by August 15, 2000, to: **IDRI, Job #06-814, 1124 Columbia Street, Suite 600, Seattle, WA 98104 U.S.A.** FAX: 206-381-3678. *Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately to study integrin-mediated signal transduction including angiogenesis at the Center for Extracellular Matrix Biology. Ph.D. in biochemistry, cell biology, or related field required. Send curriculum vitae and three letters of recommendation to: **Dr. Kishore K. Wary, c/o Human Resources, Texas A&M University System Health Science Center, Institute of Biosciences and Technology, 2121 West Holcombe Boulevard, Houston, TX 77030-3303.** FAX: 713-677-7725; website: <http://www.ibt.tamu.edu>; e-mail: [Kwary@ibt.tamu.edu](mailto:Kwary@ibt.tamu.edu).

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## POSITIONS OPEN

### TWO POSTDOCTORAL POSITIONS REGULATION OF CELL GROWTH LABORATORY

Two Postdoctoral Positions are available in the Regulation of Cell Growth Laboratory under the supervision of **Dr. Philipp Kaldis**. We are using biochemical, molecular, and transgenic/knockout mouse techniques to determine the functions of cyclin-dependent kinases (cdks) during the cell cycle.

Self-motivated applicants with a Ph.D. and experience in molecular biology and/or transgenic/knockout mouse techniques are encouraged to apply. Previous experience in cell cycle is an advantage but not required.

The newly renovated laboratory is located at the National Cancer Institute-Frederick Cancer Research and Development Center, Frederick, Maryland, and is part of the Regulation of Cell Growth Laboratory group headed by **Dr. Karen H. Vousden**. The positions are fully funded (\$31,500 to \$38,020) and provide an excellent work environment. Interested applicants should send curriculum vitae, publication list, a brief description of research interests and experience, and three letters of reference to:

**Dr. Philipp Kaldis**  
c/o Dr. Karen Vousden  
National Cancer Institute, NCI-FCRDC  
Regulation of Cell Growth Laboratory  
Building 560, P.O. Box B  
West Seventh Street  
Frederick, MD 21702

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### POSTDOCTORAL POSITIONS IN NEUROSCIENCE

Two Postdoctoral positions are available at the University of Michigan Department of Biologic and Materials Sciences in the School of Dentistry to join a group with longstanding research interests in the neurobiology of the gustatory system. The first involves biological evaluation of a micromachined, implantable electrode system to examine sensory coding in peripheral nerves of behaving experimental animals. The electrode system permits chronic recordings from sensory nerves over periods of weeks. This novel project is in collaboration with investigators in the College of Engineering. The second position focuses on brainstem circuits that process sensory inputs and how these inputs connect to reflex motor systems controlling muscle and oral secretions. The positions require use of *in vitro* and *in vivo* neurophysiological techniques, brain slice technology and whole cell recordings, neuron labeling, and confocal microscopy. Expertise in one or more of these areas is preferred but not essential. Send a brief description of research experience and interests, curriculum vitae, and the names and telephone numbers or e-mail addresses of three references to: **Robert M. Bradley, Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI 48109-1078.** E-mail: [rmbrad@umich.edu](mailto:rmbrad@umich.edu). *The University of Michigan is an Equal Opportunity/Affirmative Action Employer.*

**RESEARCH ASSOCIATE/POSTDOCTORAL POSITION** at The University of Chicago is available immediately to study prion and related neurodegenerative diseases in a newly established but rapidly expanding laboratory within the Department of Neurology. Our wide-ranging studies are directed at understanding the cell biology, molecular genetics, and protein chemistry of the prion protein to explain its transmissible and neurodegenerative properties. Individuals with a strong background in cell and molecular biology and/or structural protein chemistry should send their curriculum vitae and a list of three references to: **Jim Mastrianni, M.D., Ph.D., Department of Neurology MC2030, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637.** E-mail: [jmast@neurology.bsd.uchicago.edu](mailto:jmast@neurology.bsd.uchicago.edu). *Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITION NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

New Mexico Institute of Mining and Technology seeks to fill a temporary (one-year) Postdoctoral position with the Biology Department. Successful applicant will identify virulence target proteins in pathogenic organisms; design immuno-PCR or SELEX-based methods for high-sensitivity detection of virulence factors; perform routine experiments; and develop nonroutine technologies, data analysis, and manuscript preparation. Ph.D. required in biochemistry or molecular biology or a closely related field. Knowledge in the following areas required: cell biology, molecular biology, biochemistry. Must have basic computer skills. Desired skills: flow cytometry and virology. Must have the ability to communicate effectively and professionally with faculty, staff, and students. Salary: \$31,470. Transcripts required for consideration. Send to: **New Mexico Institute of Mining and Technology, Human Resources, 801 Leroy Place, Wells Hall, Box 81C, Socorro, NM 87801.** For information about New Mexico Tech, visit our website: <http://www.nmt.edu/>. E-mail applications NOT accepted. *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL FELLOWSHIP

A Postdoctoral position is available immediately to study signaling mechanisms involving enzymes of inositolide metabolism using *Drosophila* as a model system. Applicants must have a Ph.D. and are expected to be highly motivated. Experience in *Drosophila* genetics and molecular biology is preferred but is not essential.

The position is part of the Division of Basic Sciences of the National Cancer Institute and is located at the Frederick Cancer Research and Development Center in Frederick, Maryland. Salary range for this position is \$31,500 to \$38,020.

If interested, please send your curriculum vitae and names of three references to: **Jairaj Acharya, M.B., B.S., Ph.D., Building 560, Room 22-6, P.O. Box B, NCI-FCRDC, Frederick, MD 21702.** Your curriculum vitae and names of references may also be sent by FAX: 301-846-1666; e-mail: [acharya@mail.ncifcrf.gov](mailto:acharya@mail.ncifcrf.gov). *The National Institutes of Health is an Equal Opportunity Employer and encourages all qualified women and minorities to apply. Selection for the position will be based solely on merit, with no discrimination for nonmerit reasons such as race, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.*

**POSTDOCTORAL FELLOWSHIPS** for training in immunology and virology at the University of Massachusetts Medical School. The UMMS interdepartmental Immunology and Virology Program provides graduate and postdoctoral training in several disciplines, including cellular and molecular immunology, viral immunology, molecular virology, and experimental diabetes. For information, see website: <http://www.umassmed.edu/ivp/>. Candidates interested in joining this active, multidisciplinary NIH-supported training program should send curriculum vitae, the names of three references, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training; to: **Ms. Beryl Edney, Department of Pathology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.** *The University of Massachusetts Medical Center is an Affirmative Action Employer.*

**POSTDOCTORAL FELLOW** to work on stroke models using different types of genetically altered mice to evaluate protective versus deleterious effects of new anticoagulant and fibrinolytic therapy for stroke. Candidates with demonstrated experimental surgical skills including middle cortex artery occlusion technique in rodents are encouraged to apply. Salary commensurate with experience. Résumés to: **Dr. Berislav Zlokovic; e-mail: [Berislav.Zlokovic@urmc.rochester.edu](mailto:Berislav.Zlokovic@urmc.rochester.edu).** *The University of Rochester is an Equal Opportunity Employer.*



## POSITIONS OPEN

### POSTDOCTORAL POSITIONS AND/OR RESEARCH ASSOCIATE PENN STATE COLLEGE OF MEDICINE

Breast cancer: Postdoctoral and/or Research Associate position available to study the mechanism by which estrogen controls the proliferation of breast cancer cells. Research involves characterization of pathways that regulate estrogen receptor function in normal and transformed mammary epithelial cells. Experience in cell and molecular biology desired. Special interest in cell cycle regulation, tumor biology, and mechanisms leading to tamoxifen resistance. Send letter of interest, curriculum vitae, and three references to: **Maricarmen D. Planas-Silva, Ph.D., Department of Pharmacology, H078, The Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033. E-mail: vac2@psu.edu.**

Cancer pharmacology: Postdoctoral positions are available within an interdisciplinary group focused on the discovery and development of new anticancer agents (see website: [www.collmed.psu.edu/pharm/faculty/smith.htm](http://www.collmed.psu.edu/pharm/faculty/smith.htm)). Preference will be given to candidates with a strong background with *in vivo* tumor biology, especially mouse xenograft models. Opportunity to develop independence and participate in technology commercialization. Send curriculum vitae and list of references to: **Charles D. Smith, Ph.D., Department of Pharmacology, H078, The Pennsylvania State University College of Medicine, Hershey, PA 17033. E-mail: cdsmith@psu.edu.**

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### POSTDOCTORAL CLINICAL FELLOWSHIP NEUROIMMUNOLOGY

The Multiple Sclerosis Research and Treatment Center at St. Luke's-Roosevelt Hospital Center, a university hospital of Columbia University College of Physicians and Surgeons, is offering a two-year Clinical Fellowship in multiple sclerosis starting July 1, 2001. The Fellow will participate in the care of patients at the MS Center and on the inpatient MS unit. In addition, the Fellow will be required to participate in the subspecialty clinics involving spasticity, urology, urogynecology, and rehabilitation. Participation in ongoing clinical trials or development of an independent research interest is encouraged. Applicants should send curriculum vitae and letter of intent to: **Saud A. Sadiq, M.D., The Multiple Sclerosis Research and Treatment Center, 425 West 59th Street, Suite 7C, New York, NY 10019. St. Luke's-Roosevelt Hospital Center is an Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL FELLOWSHIPS UCLA

Several positions to study the mechanism, genetic control, and inducibility by carcinogens of genetic instability in yeast, human cells, and in transgenic mice. Website: [www.hsph.harvard.edu/facres/schstl.html](http://www.hsph.harvard.edu/facres/schstl.html). Please send curriculum vitae and names and addresses of three references to:

**Robert H. Schiestl**

Professor of Pathology and Environmental Health at UCLA  
Current address:

Department of Cancer Cell Biology  
Harvard School of Public Health  
665 Huntington Avenue  
Boston, MA 02115

**POSTDOCTORAL FELLOW** to work on molecular and cellular mechanisms involved in the regulation of brain thrombosis in relation to cellular injury in experimental stroke models and Alzheimer's disease. Candidates with previous experience in molecular and cellular analysis of the central nervous system are encouraged to apply. Salary commensurate with experience. Résumés to: **Dr. Berislav Zlokovic; Berislav.Zlokovic@urmc.rochester.edu. The University of Rochester is an Equal Opportunity Employer.**

## POSITIONS OPEN

An NIH-funded **POSTDOCTORAL POSITION** is available immediately in the Department of Anesthesia to study the interaction of inhaled anesthetics with small synthetic water-soluble and membrane-soluble  $\alpha$ -helical bundle proteins. The research project involves protein design, protein synthesis, and the structural characterization of protein-anesthetic complexes. The applicant must have an M.D. and/or Ph.D. degree and be skilled in biochemistry or spectroscopy. Send curriculum vitae and names and e-mail addresses of three references to:

**Jonas S. Johansson, M.D.**

Department of Anesthesia

University of Pennsylvania Health System  
Dulles 801

3400 Spruce Street

Philadelphia, PA 19104 U.S.A.

Telephone: 215-349-5472


FAX: 215-349-5078

E-mail: [johansso@mail.med.upenn.edu](mailto:johansso@mail.med.upenn.edu)

A **POSTDOCTORAL RESEARCH POSITION** is available to investigate the role of the cell cycle proteins in the regulation of DNA replication. Candidate must have experience in protein phosphorylation, protein purification, baculovirus expression, and protein-protein interaction techniques. Contact: **Marietta Lee, Ph.D., Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595. E-mail: Marietta\_Lee@nymc.edu.**

NIH-funded **RESEARCH ASSOCIATE** positions are immediately available at Case Western Reserve University to study the molecular basis of apoptotic signaling cascade in cancer. Experience in transgenic/nude mice is required. Submit curriculum vitae by e-mail with names of three references to: **Subrata Haldar, Ph.D.; Telephone: 216-778-1167; e-mail: shaldar@research.metrohealth.org.**

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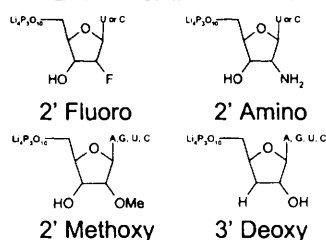
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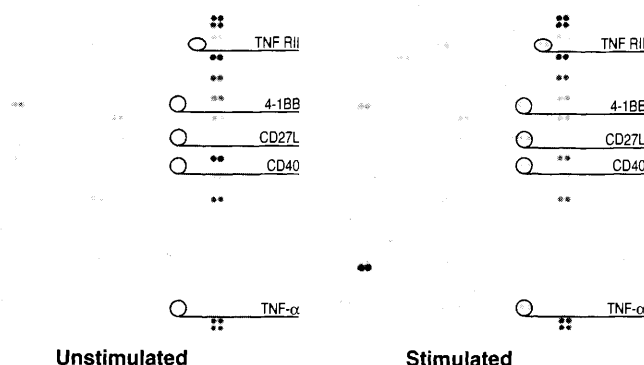
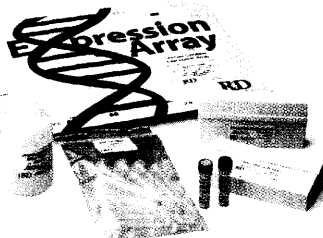
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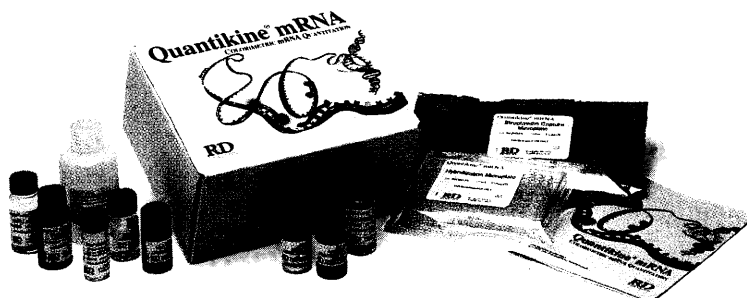
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- Identify differentially expressed mRNAs by comparing expression profiles from different samples



The Human Cytokine cDNA Array (Catalog # GA001) shows RNA expression of TNF Superfamily genes in unstimulated and stimulated cells. Stimulated cells show an increase of 3.0, 26, 2.3, 130, and 8.6 fold for TNF RII, 4-1BB, CD27L, CD40 and TNF- $\alpha$ , respectively. Radiolabeled cDNA was made using poly (A)<sup>+</sup> RNA, <sup>32</sup>P labeled nucleotide and Cytokine-specific Primers (Catalog # GAC11).

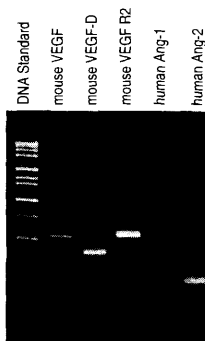
## Quantikine® mRNA

- Quantitate multiple targets at once
- Runs in less than 5 hours
- Less sample RNA than Northern Blot or RPA
- Uses a conventional microplate reader
- Non-radioactive • Non PCR-based



## Primer Pairs™ & Probe Cocktails

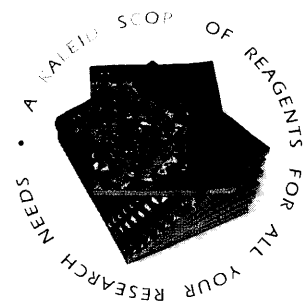
- R&D Systems' Primer Pairs have been carefully tested to identify optimum amplification conditions so you spend less time optimizing PCR\*.
- Probe Cocktails are available labeled with biotin or digoxigenin\*\* or unlabeled with 5'- and 3'-hydroxyl groups.



RT-PCR\* products were amplified from first-strand cDNA samples representing sources known to express the respective mRNA. Products were analyzed on a 2.0% agarose-TAE gel and visualized with ethidium bromide staining.

\*PCR is covered by US Patent Numbers 4683195 and 4683202 assigned to Hoffmann-LaRoche.

\*\*licensed from Boehringer Mannheim GmbH.



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