

DISPLAY CLASSIFIED ADVERTISEMENTS

Call for rate and deadline information on display classified advertisements.

E-mail: science_displayads@aaas.org

Bren Peters
Recruitment Display Advertising
Telephone: (202) 326-6541
FAX: (202) 289-6742
E-mail: science_displayads@aaas.org

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

Debbie Cummings
European Recruitment Advertising
Telephone: +44 (0) 1223 302067
FAX: +44 (0) 1223 576208
E-mail: european_ads@science-int.co.uk

LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad:

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

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

For line advertising deadlines, call Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: science_classifieds@aaas.org

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

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

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

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

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

Mail, FAX or E-mail materials to:

SCIENCE Classified Advertising
1200 New York Avenue, N.W., Room 911
Washington, DC 20005
FAX: 202-289-6742

E-mail: science_classifieds@aaas.org (please include your telephone number in e-mail)

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

POSITIONS OPEN

FACULTY POSITIONS MEDICINAL CHEMISTRY, TOXICOLOGY, PHARMACOLOGY, BIOCHEMISTRY Department of Pharmaceutical Sciences and Department of Chemistry The University of Montana

Applications are invited for **TENURE-TRACK** faculty positions to strengthen research and graduate education in environmental sciences at The University of Montana. This recruitment is part of an ongoing effort of the School of Pharmacy to establish a nationally competitive research unit at the interface of medicinal chemistry, toxicology, and pharmacology. The development of the Center for Human and Environmental Toxicology coincides with the construction of a new research wing in the School of Pharmacy. Candidates with expertise in the application of chemical, biochemical, pharmacological, and molecular approaches to relevant problems in environmental toxicology are encouraged to apply. Successful candidates may hold appointments in either the Department of Pharmaceutical Sciences or the Department of Chemistry or both. Senior candidates will be considered for **DIRECTORSHIP** of the Center. The research focus areas of the departments include neuro- and cardiovascular pharmacology, rational drug design, antitumor agents, brain injury mechanisms and responses, chemical detoxification, and environmental chemistry.

Successful candidates must hold a doctoral degree in chemistry, medicinal chemistry, pharmacology, toxicology, or related field, and demonstrate research excellence in areas that complement those of the department's. Candidates will be expected to establish an independent and innovative research program, as well as participate in teaching at the graduate and undergraduate levels. Demonstrated ability to attract NIH or NSF funding and/or contract research funding is essential. Salary and appointment will be commensurate with experience. The primary appointments will be academic, tenure-track positions in the appropriate department. The positions are available January 1, 1999. Applications for consideration must be submitted by September 1, 1998. Applications will be screened until the positions are filled.

The University of Montana is located in Missoula, a cosmopolitan Rocky Mountain community of 70,000. The city has been singled out in national publications for its high quality of life. Abundant recreational opportunities in surrounding state and national forests and nearby Glacier National Park complement a thriving intellectual atmosphere.

To apply send letter of application, current curriculum vitae, statement of current research plans, and names, addresses, and telephone numbers of at least three references to:

Richard J. Bridges, Ph.D.
Professor of Pharmacology and Toxicology
Chair, Environmental Toxicology Search Committee
Department of Pharmaceutical Sciences
School of Pharmacy and Allied Health Sciences
The University of Montana
Missoula, MT 59812-1075

This position announcement can be made available in alternative formats upon request.

The University of Montana is an Equal Opportunity/Affirmative Action Employer and encourages applications from women, minorities, Vietnam-era veterans, and persons with disability.

FACULTY POSITION IN TOXICOLOGY

The Toxicology Program, School of Health Related Professions, University of Medicine and Dentistry of New Jersey at Newark seeks applicants for a part-time (50 percent) faculty position at the **ASSISTANT/ASSOCIATE** level, beginning September 1, 1998. A Ph.D. in toxicology/pharmacology or a related field with teaching experience is required. The successful candidate is expected to teach undergraduate lecture/laboratory/seminar courses in toxicology, coordinate required student internships, and participate in continuing education offerings to the professional community. Send letter of application, curriculum vitae, summary of teaching experience, and three letters of recommendation to: **Dr. Rita Turkall, Toxicology Program, University of Medicine and Dentistry of New Jersey-School of Health Related Professions, 110 Marland Building, 65 Bergen Street, Newark, NJ 07107-3001.** UMDNJ is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

IMMUNOLOGY FACULTY POSITION OREGON HEALTH SCIENCES UNIVERSITY VACCINE AND GENE THERAPY CENTER

The Oregon Health Sciences University (OHSU) in conjunction with the Oregon Regional Primate Research Center (ORPRC) is seeking an outstanding Senior Cellular Immunologist to head a newly established program to develop new strategies for vaccines, immunological tolerance, or tumor immunology. Applicants should possess a Ph.D. or M.D. and have a strong record of research achievement in immunology.

The OHSU Vaccine and Gene Therapy Center will be housed in a new over-20,000-square foot facility, which will contain biosafety level 3 facilities for handling infectious agents and mice as well as state-of-the-art equipment. The immunology community at OHSU consists of a collaborative group of over 30 scientists with primary appointments in both basic and clinical departments and participation in two NIH-funded training programs for both doctoral and postdoctoral students.

The selected applicant will receive a tenure-track appointment at the **ASSOCIATE/FULL PROFESSOR** level in the School of Medicine and an appointment at the **ASSOCIATE/SENIOR SCIENTIST** level in the Pathobiology and Immunology Division at the ORPRC. The position comes with the opportunity to participate in the recruitment of two to three additional immunology faculty to the new center. While the candidate will be expected to continue his current program at the center, he or she should also be willing to extend his research into primate models.

Applicants should submit a current curriculum vitae, statement of research plans, and names of three references by September 15, 1998, to:

Dr. David Parker
Chair, Search Committee
Department of Molecular Microbiology and Immunology, L220
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, OR 97201-3098

Oregon Health Sciences University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

IMMUNOLOGY FACULTY POSITION

The Department of Pathology, Immunology, and Laboratory Medicine (website: <http://www.med.ufl.edu/path>) at the University of Florida College of Medicine is seeking a tenure-track faculty member at the rank of **ASSISTANT PROFESSOR**. Candidates must have a Ph.D. and/or M.D.-Ph.D. degree, relevant postdoctoral experience, and independent current extramural funding. The successful candidate will be expected to maintain an independently funded research program in immunology in the field of genetics of susceptibility to autoimmune disease using a mouse animal model, and will be expected to participate in teaching immunology to graduate and medical students. Salary will be commensurate with training and experience. Anticipated start date will be September 1, 1998. Applicants should submit a curriculum vitae, one-page statement of research goals, names of three references, and reprints of three publications by August 15, 1998, to:

Saeed Khan, Ph.D., Search Committee Chair
University of Florida College of Medicine
Box 100275 JHMHC
Gainesville, FL 32610-0275

Equal Opportunity/Affirmative Action Employer.

Department of Chemistry and Biochemistry, University of Maryland at College Park (UMCP) seeks to expand its Biochemistry Division by eight to nine faculty members over the next four years. Applications for these tenure-track or tenured positions are invited. Candidates at all levels will be considered (**ASSISTANT, ASSOCIATE, or FULL PROFESSOR**). Successful candidates will also have the opportunity to participate in the newly established Center for Biomolecular Structure and Organization and the campus-wide graduate program in molecular and cell biology. Submit a curriculum vitae, brief (three to five pages) description of research plans, and arrange for three letters of reference to be sent to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021.** Review of applications will begin immediately and continue until positions are filled. UMCP encourages applications from women and members of minority groups and is an Equal Opportunity/Affirmative Action Employer.

AS BIG AS LIFE ITSELF

For nearly 20 years, Genetics Institute has discovered the breakthrough products and set the direction for an industry. Today, we are a strong, stable force for innovation and excellence in biotechnology. In fact, the past two years saw FDA approval of two milestone products from Genetics Institute. The first, BeneFIX™, Coagulation Factor IX (Recombinant), is a clotting factor used to treat Hemophilia B. The second, Neumega®, is an agent useful in preventing platelet deficiencies in cancer patients undergoing chemotherapy.

Throughout our history, we have demonstrated our commitment to providing our dedicated professionals with everything it takes to meet the challenges that make our environment unique.

Genetics Institute is uniquely positioned to continue its success and growth well into the next millennium. You'll find it's a great organization for building a rewarding career.

For information on exciting job opportunities at Genetics Institute, visit our web site at: www.genetics.com

BIOPHARMACEUTICAL CHARACTERIZATION & ANALYSIS DEPARTMENT

Lab Head, Mass Spectrometry

The department is focused on the development and application of analytical technologies for the characterization and analysis of recombinant glycoproteins. We are currently seeking a Ph.D. level scientist with extensive knowledge in biochemical mass spectrometry to lead the mass spectrometry group within the department. The candidate should have relevant experience and expertise in biochemical structural analysis as applied to glycoproteins. The mass spectrometry group focuses on the development and application of mass spectrometry for the structural analysis of proteins, glycoproteins and carbohydrates. The candidate will help to define and implement MS-based strategies for the analysis of recombinant therapeutics. The candidate should be comfortable working at the interface of analytical chemistry, biochemistry and cell biology. Additional experience in chromatographic separation methods (electrophoretic and chromatographic), micro-sample handling techniques or other methods for protein and carbohydrate structural analysis is beneficial. Prior experience in the biopharmaceutical industry is desirable. The candidate should have excellent communication skills and the ability and desire to work in a multidisciplinary, team-oriented environment.

Job Code: SCI-CM-403

Principal Scientist, Protein Biochemistry/Analytical Biochemistry

We are currently seeking a Ph.D. level scientist with extensive knowledge of protein biochemistry, analytical biochemistry or a related discipline. The department is focused on the development and application of analytical technologies for the characterization and analysis of recombinant glycoproteins. The candidate will work in a project-focused environment and should be experienced in the development and implementation of approaches and strategies for the analysis of recombinant glycoproteins. The candidate should be comfortable working at the interface of analytical chemistry, biochemistry and cell biology. Experience in enzymology, biophysical analysis, chromatographic separation methods (electrophoretic and chromatographic), mass spectrometry, micro-sample handling techniques or other methods for protein and carbohydrate structural analysis is beneficial. Prior experience in the biopharmaceutical industry is desirable. The candidate should have excellent communication and leadership skills and the ability and desire to work in a multidisciplinary, team-oriented environment. **Job Code: SCI-CM-389**

Please send your resume, indicating Job Code to: Genetics Institute, Inc., Cathy Montanarella, One Burt Road, Andover, MA 01810; Fax: (978) 623-2607.

Genetics Institute is a wholly owned subsidiary of American Home Products and offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), pension plan, relocation assistance, tuition assistance, dependent care subsidy, and an on-site exercise facility.

Genetics Institute is proud to be an equal opportunity employer, dedicated to building strength through diversity.

GENETICS  INSTITUTE®

Harnessing the Body's Power to Heal™

www.genetics.com

Astra Research Center Boston

Astra is a rapidly expanding international leader in pharmaceutical research and development, responsible for creating the #1 selling drug in the world, Prilosec®. With over \$5 billion in sales and more than 22,000 employees

worldwide, Astra's mission is to improve human health and the quality of life. Astra Research Center Boston, an integral part

of Astra, is initially focusing its research on the development of small molecule drugs and vaccines to improve therapies against *Helicobacter pylori*.

Working on a broad range of international collaborations, our excellent scientists are exploiting *H. pylori* genomic information to identify targets for pharmaceutical and biological intervention.

With a long-term commitment to the research and development of novel therapeutics in additional disease targets, we offer you the opportunity to be part of innovative, creative multidisciplinary project teams.

Scientist Formulations Research

An opportunity exists for a Scientist with the Formulations Research group at Astra Research Center Boston (ARCB). At ARCB, we are focusing on exciting new areas of delivering purified protein vaccines for mucosal immunity. Presently we are building a state-of-the-art research center in Waltham which we will occupy in the year 2000. Qualified candidates will have a Ph.D. and approximately 2 years of postdoctoral experience in an area related to protein formulation and characterization.

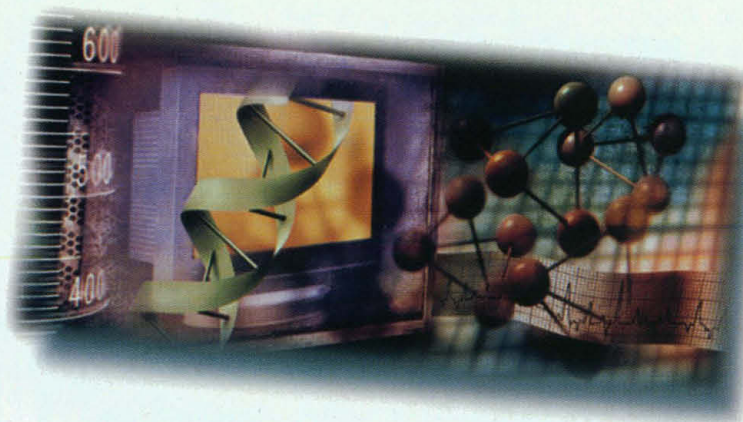
The ideal candidate will also have expertise in protein delivery and in applications of analytical and biophysical techniques to the study of protein structures. Additionally, hands-on experience with "novel" delivery systems including microemulsions, liposomes and polymeric particles is required. A strong background in spectroscopic techniques, for example, FTIR, would be highly desirable.

Astra Research Center Boston offers an outstanding benefits package including company-paid health care premiums, tuition reimbursement, profit sharing, pension, and a 401(k) plan. Qualified candidates please send your C.V., indicating appropriate position, to: Astra Research Center Boston, Human Resources, 128 Sidney Street, Cambridge, MA 02139; fax: (617) 576-4668 or email at: hr@arcb.us.astra.com.

ASTRA
Astra Research Center Boston
ASTRA HÄSSLE

Pursuing knowledge through the power of equal opportunity.

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



DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH

At Schering-Plough Research Institute, scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. Our continuing, unprecedented growth creates excellent opportunities for innovative, organized and highly motivated scientists. If you are seeking an opportunity to be on the cutting edge of pharmaceutical discovery, become part of an expanding multidisciplinary group focused in one of the following therapeutic areas:

ALLERGY

Associate Scientist/ Scientist-Allergy/Asthma

Will assume major responsibilities for conducting ongoing studies of chemokine receptors at the cellular and molecular level for the purpose of developing novel therapeutic agents. Requires a BS degree in Cell Biology, Immunology, Biochemistry or Molecular Biology and 4-10 years of experience or an MS degree and 2-8 years of experience. Background must include experience in mammalian cell culture encompassing primary cells, *in vitro* cellular functional assays and receptor binding techniques. Experience in basic biochemical and molecular biological techniques is highly desirable. For consideration, respond to **Dept. DMS/ALL/SU**.

Assistant Scientist-Airway Pharmacology

Will join a team of scientists evaluating new drug discovery targets and developing pharmaceuticals for airway diseases. Will perform *in vitro* pharmacology studies on animal and human isolated tissues; with some *in vivo* pharmacology work likely. Requires a BS degree and 0-4 years of laboratory experience or an MS degree and 0-2 years of laboratory experience. A background in physiology or pharmacology and animal handling experience is desired. Strong computer, technical and interpersonal skills are a must. For consideration, respond to **Dept. DMS/ALL/CR**.

ONCOLOGY

Principal Scientist-Oncology

We seek a highly motivated PhD scientist with expertise in molecular biology and biochemistry to initiate novel drug discovery approaches for treatment of androgen-independent prostate cancer. Candidates should have 3-8 years of postdoctoral experience in an academic or industrial setting with an outstanding publication record. Prior experience in the areas of prostate cancer, apoptotic pathways, steroid receptor coactivators or growth factor receptor tyrosine kinases is especially desirable. Candidates will be expected to initiate a research program focused on defining molecular targets suitable for therapeutic intervention and to contribute to the overall objective of identifying novel anticancer agents for clinical development. Strong oral and written communication skills are essential. For consideration, respond to **Dept. DMS/ONC/JP**.

Associate Scientist-Oncology

Will assume responsibilities for conducting studies in the area of cancer genomics for the purpose of detecting novel therapeutic drug targets. Requires a BS degree in Molecular Biology or Biochemistry and 4-7 years of experience or an MS degree and 0-4 years of experience. Background must include molecular cloning, DNA sequencing, cDNA library construction and analysis of gene expression. Experience in expressing proteins from cloned genes in bacterial, yeast or insect systems and utilizing computational tools for sequence analysis is desirable. For consideration, respond to **Dept. DMS/ONC/SL**.

INFECTIOUS DISEASES

Senior Scientists-Virology

Will join a multidisciplinary team involved in HCV antiviral research. Requires a PhD and at least 2 years of postdoctoral experience in virology/antiviral research and molecular cell biology. Expertise in Hepatitis C virus or related (+)-stranded RNA viruses is preferred. Strong organization, interpersonal and communication skills are essential. Demonstrated ability to work as a team member is critical. For consideration, respond to **Dept. DMS/VIR/SS**.

Associate Scientists/Scientists-Virology

Will join a multidisciplinary team involved in HCV/HBV/HIV antiviral research. Requires a BS degree in Molecular Biology or related discipline and 4-10 years of experience or an MS degree and 2-8 years of experience. Background must include expertise in cloning and expression using various systems, protein purification and characterization. Familiarity with enzymology, virology and cell culture techniques is preferred. Demonstrated ability to work both independently and as a team member is critical. For consideration, respond to **Dept. DMS/VIR/AS**.

Senior/Principal Scientist or Section Leader-Antifungal

Our antifungal team is focused on the discovery of broad spectrum antifungal agents active against human pathogens. As a member of this team, you will be responsible for the development and implementation of assays on a genomic level. An outstanding record of scientific achievement in the field of fungal biochemistry/molecular biology is required. Experience with *Candida* or *Aspergillus* is a plus. For the Section Leader position, successful candidate will possess: a PhD and 8-10 years of fungal experience including demonstrated leadership/management skills; for the Senior/Principal Scientist position: 2-8 years of experience in fungal molecular biology/biochemistry. For consideration, respond to **Dept. DMS/SS/KS**.

Assistant Scientist-Antifungal

Will join a multidisciplinary team involved in antifungal research. Requires a BS degree and 0-4 years of experience or an MS degree and 0-2 years of experience in microbial or fungal genetics/molecular biology/biochemistry. Experience in assay development and high throughput screening is a plus. For consideration, respond to **Dept. DMS/AS/KS**.

Senior/Principal Scientist-Antibacterial/Antifungal Drug Evaluation

Will utilize bacteria and fungi to evaluate antibacterial and antifungal agents using various *in vitro* and *in vivo* procedures. Requires a PhD plus experience in microbiology/immunology/pathogenesis or a related field. For consideration, respond to **Dept. DMS/SS/DL**.

Assistant Scientists-Antibacterial/Antifungal Drug Evaluation

Will utilize bacteria and fungi to evaluate antibacterial and antifungal agents using various *in vitro* and *in vivo* techniques. Requires a BS degree and 2-4 years of experience or an MS degree and 1-2 years of experience in microbiology/immunology/pathogenesis. Background must include experience in sterile technique, growing microorganisms, *in vitro* testing (e.g. MICs), and molecular biology techniques. Knowledge of computer applications and experience with animal models are assets. For consideration, respond to **Dept. DMS/AS/DL**.

IMMUNOLOGY

Senior Scientist-G Protein Coupled Receptor Pharmacology

Will provide pharmacology expertise to our therapeutic discovery projects and will play a key role as part of a team-oriented research program. Several major programs have been developed centered on GPCRs, with an emphasis on chemokine receptors; significant collaborative opportunities exist within SPRI as well as the DNAX Institute. Requires a PhD and 1-3 years of postdoctoral experience in receptor pharmacology, with GPCR experience preferred. Expertise in evaluating drug-receptor interaction is required, including determination of binding affinity, mode of interaction, and mechanistic studies of inhibition of signaling and biology. Familiarity with G proteins, Calcium flux, GTP/GDP exchange, Pi turnover, cAMP and/or chemotaxis assays is a plus. Publication of research results is strongly supported. For consideration, respond to **Dept. SS/GPCR/PZ**.

Senior Scientist-Immunology

Will provide *in vitro* and *in vivo* Immunology expertise to our therapeutic compound and novel cytokine discovery projects. Requires a PhD and 1-3 years of postdoctoral experience with a background in T cell activation and its role in autoimmune disease or cancer. Demonstrated skills in cellular immunology techniques such as isolation and functional characterization of lymphocyte and hematopoietic cell subpopulations are required. Familiarity with animal models of inflammatory disease or cancer is highly desirable. Experience in molecular biology and biochemistry techniques, including plasmid construction, DNA sequencing and ELISA assays is a plus. For consideration, respond to **Dept. DMS/SS/PZ**.

Associate Scientists-Immunology

Will support GPCR pharmacology efforts as well as projects in cellular and *in vivo* Immunology. Both positions require a BS degree and 4-7 years of experience or an MS degree and 2-4 years of experience. Pharmacology position requires experience in receptor biochemistry, ligand binding assays, receptor signaling (such as Calcium flux) and/or chemotaxis. Immunology position requires experience in isolation and characterization of lymphocytes, tissue culture and general immunology techniques. FACS experience is desirable, along with a familiarity with general molecular biology methods. For consideration, respond to **Dept. DMS/AS/PZ**.

Associate Scientist/Scientist-Immunology

Will join a multidisciplinary team involved in chemokine studies using mouse genetics. Requires a BS degree in Molecular Biology, Biochemistry, Immunology or a related discipline and 4-10 years of experience or an MS degree and 2-8 years of experience. Background must include expertise in cloning, automatic DNA sequencing, solid working knowledge of immunology, strong interpersonal, communication and computer skills, as well as familiarity with standard software. Demonstrated ability to work both independently and as an effective team member is critical. For consideration, respond to **Dept. DMS/IMM/TY**.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For consideration, send resume, which MUST include the specific **Dept. Code** for your position of interest, and salary requirements to: Human Resources-DMS, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. Please visit our web site at <http://www.sp-research.com> for additional information. An equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



Schering-Plough
Research Institute

Using Science for Human Advantage

Merck Research Laboratories, a division of Merck & Co. Inc., is seeking an individual with a strong background in chemistry, enzymology and biocatalysis to conduct research using enzymes to modify natural products and synthetic compounds.

BIOCATALYTIC CHEMIST

The selected candidate will develop novel chemical entities from existing structural leads, establish additional sites on small molecules for synthetic chemistry, develop biocatalytic steps for process development and identify novel enzymes from natural sources which can be used for structural modifications. The scientist will interact on a regular basis with biochemists, microbiologists and isolation and process chemists.

A Ph.D. in Biochemistry/Chemistry and postdoctoral training in enzymology or bioorganic chemistry is required, as are strong analytical skills. Experience in drug discovery, metabolism, natural products research and the development of high-throughput screens is desirable. The candidate must also have a strong publication record and good organizational and interpersonal skills.

Merck Research Laboratories are located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, applicants should send their resume to

Merck & Co., Inc.
Ad #72, RY80-A3
P.O. Box 2000
Rahway, NJ 07065.

Merck Research Laboratories is an equal opportunity employer.



MERCK
Research Laboratories

Visit our Career Page on our
Web site: www.merck.com

CARDIOLOGY THE UNIVERSITY OF CHICAGO

Full-time academic position available for Research Associate as Director of an adenovirus core facility. Responsibilities include: generation of novel replication defective adenovirus vectors, generation of purified replication-defective adenoviruses for selected collaborators, and management of laboratory. Please send letter and C.V. to: Jeffery Leiden, M.D., Ph.D, The University of Chicago, Department of Medicine, Section of Cardiology, 5841 S. Maryland Ave., MC 6080, Chicago, IL 60637.



**THE UNIVERSITY
OF CHICAGO**

An Affirmative Action/
Equal Opportunity Employer

MAKE THE CONNECTION...

Wyeth-Ayerst
Research, a
major division of
Fortune 100
American Home
Products Corporation,
is one of the world's
largest research-
based pharmaceutical
companies and is a
leading developer of
prescription drugs
and nutritional
products.

We currently have an
opportunity in our
Princeton, NJ facility.

RESEARCH SCIENTIST I PHARMACOLOGIST

We are seeking a Research Scientist to be involved in the application of various *in vivo* neurochemical techniques in the evaluation of drugs targeted at CNS and various neuropathological disorders. Candidate must be able to work independently in performing, maintaining and interpreting experimental procedures as well as designing new analytical separations and procedures. The selected candidate must have prior experience within a multidisciplinary research program as well as good oral and written communication skills. Requirements include *in vivo* models and training in the methodology of microdialysis and/or voltametry. Knowledge of modern HPLC techniques with electrochemical and fluorometric detection is also required. Knowledge of histological techniques, particularly in relation to neuronal tissues is a plus. BS in Biology, Biochemistry or a related discipline with 7 years' experience or and MS with 5 years' experience is required.

Wyeth-Ayerst Research offers competitive compensation and benefits programs including stock options, child-care subsidies, flex time, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements to: Wyeth-Ayerst Research, Reference OPSCI-3800, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). For more information, visit our website at www.ahp.com/wyeth.htm. Principals only. Equal Opportunity Employer M/F/D/V



MAYO CLINIC DEPARTMENT OF MEDICAL GENETICS



Senior Associate Consultant Position

Mayo Clinic, Department of Medical Genetics, is seeking a clinical geneticist for its expanding clinical genetics program. All applicants must have a M.D. degree and be Board-certified or Board-eligible for certification in clinical genetics by the American Board of Medical Genetics. In addition to participating in existing clinical programs, we seek an individual to expand collaborative initiatives with the Mayo Cancer Center and/or the Molecular Medicine Program. A successful candidate will be expected to participate in education and research activities. Academic rank and salary will be commensurate with experience. Applications should be received prior to October 1, 1998.

Curriculum vitae, a cover letter detailing experience, future interests, and names of three individuals who can provide letters of recommendation should be sent to:

Gerard Vockley, M.D., Ph.D., Chair
Search Committee for the Department of
Medical Genetics, Mayo Clinic, 200 First
Street S.W., Rochester, MN 55905
FAX: 507/284-1067

Mayo Foundation is an Affirmative Action and
Equal Opportunity Employer Educator.

Chair, Department of Pharmacology

Vanderbilt University Medical Center is currently searching for a Chair for the Department of Pharmacology for the School of Medicine. A candidate should have an exceptional record in research, a desire to lead a premier department to a higher level, experience in a major university setting, and the ability to recruit and nurture faculty. The candidate should be an acknowledged leader in the field of pharmacology or a related discipline. In addition, the candidate should be committed to excellence in the education of medical and graduate students.

Those interested in being considered for the Chair should submit a Curriculum Vitae to:

Steven C. Hebert, M.D.
Anne and Roscoe R. Robinson
Professor of Medicine
Division of Nephrology
C-3119 MCN
Vanderbilt University
Medical Center
Nashville, TN 37232

Vanderbilt University is an equal opportunity employer and encourages the candidacy of qualified women and minority candidates.



Shape the Future of Drug Discovery at Parke-Davis

Parke-Davis Pharmaceutical Research, a division of Warner-Lambert, offers a challenging scientific environment where you can pursue a rewarding future of research and discovery as a:

- The expression profiling group leader will also keep abreast of emerging expression technologies and help evaluate their suitability to our drug discovery efforts.

- Applicants should have a Ph.D. and/or M.D. plus at least 5 years of post-doctoral experience in molecular biology. Proficiency with computers and pharmaceutical experience are highly desirable.

- Influence the future of drug discovery at Parke-Davis, and enjoy a competitive salary, benefits and an environment that supports your professional growth. Qualified candidates please mail, fax or e-mail your resume*, indicating Job Code CJM-98309, Parke-Davis Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: (310) 337-3367. E-mail: parkedavis@isearch.com

- Equal opportunity in action. Smoke-free work environment.

*Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.

Warner-Lambert "Pharmaceutical Company of the Year" - Med Ad News September 1997

www.parke-davis.com



PARKE-DAVIS

Expression Profiling Senior Scientist

The Genomics Group at Parke-Davis is seeking a senior scientist to lead our expression profiling group. The successful candidate will be responsible for coordinating the use of several expression technologies, including DNA chips and microarray approaches. An additional key responsibility will be to serve as the group's scientific liaison to Parke-Davis' drug discovery groups.

- The expression profiling group leader will also keep abreast of emerging expression technologies and help evaluate their suitability to our drug discovery efforts.

- Applicants should have a Ph.D. and/or M.D. plus at least 5 years of post-doctoral experience in molecular biology. Proficiency with computers and pharmaceutical experience are highly desirable.

- Influence the future of drug discovery at Parke-Davis, and enjoy a competitive salary, benefits and an environment that supports your professional growth. Qualified candidates please mail, fax or e-mail your resume*, indicating Job Code CJM-98309, Parke-Davis Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: (310) 337-3367. E-mail: parkedavis@isearch.com

- Equal opportunity in action. Smoke-free work environment.

*Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.

Warner-Lambert "Pharmaceutical Company of the Year" - Med Ad News September 1997

www.parke-davis.com



HARVARD MEDICAL SCHOOL

PROFESSOR OF NEUROBIOLOGY AND HEAD OF THE DEPARTMENT OF NEUROBIOLOGY

HARVARD MEDICAL SCHOOL

Harvard Medical School is seeking a Professor to serve as Head of the Department of Neurobiology. In addition to conducting a research program of distinction in this field, the candidate will be responsible for leadership in all aspects of this department, including the overall research program, and educational programs for medical students, graduate students, and postdoctoral fellows. Candidates should have a strong record of research and training accomplishments, and an ability to provide leadership to the department, and to work with other leaders of the basic science faculty and the administration in the Medical School.

Interested individuals should send a letter expressing interest in the position, and a current CV to:

Marc W. Kirschner, Ph.D.,
Carl W. Walter Professor of Cell Biology
Department of Cell Biology
Harvard Medical School
240 Longwood Avenue
Boston, MA 02115

Harvard Medical School is an equal opportunity/affirmative action employer. Women and minority candidates are particularly encouraged to apply.



The Laboratory of Molecular Cell Biology, National Cancer Institute, invites applications for a Tenure-Track Principal Investigator position in the area of the molecular biology of eukaryotic chromosomes and the cell nucleus. The LMCB fosters an interactive research environment and the use of diverse experimental approaches and model systems. Applicants should have a Ph.D. or M.D. degree, a strong publication record, and demonstrated potential for imaginative research. Salary will be commensurate with education and experience with a range between \$50,000 to \$65,000. Send a curriculum vitae, brief statement of research interests, and three letters of recommendation by September 15, 1998, to: **Ms. Lois Schwartz, Executive Secretary, Search Committee, LMCB, NCI, Building 37 Room 5E26, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255.**

The National Cancer Institute is an Equal Opportunity Employer.

Head, Transgenic Core Facility National Heart, Lung, and Blood Institute National Institutes of Health

The Division of Intramural Research, National Heart, Lung, and Blood Institute is seeking a manager for a Transgenic/Knockout Mouse Core Facility. The incumbent will have overall responsibility for the day-to-day operations of the transgenic facility, for generating embryonic stem cells, and for generating, genotyping, and maintaining transgenic and knockout mice. The individual should have at least 2 years of experience in performing the procedures required to generate transgenic and knockout mice. Prior experience in managing this type of facility would be useful. The individual will supervise up to 3 technicians and the required animal caretaker personnel.

The candidate should have a Master's or doctoral degree in a biological science. The salary will be between \$47,000-75,000/year, depending on experience. Candidates should submit a curriculum vitae, bibliography, summary of relevant experience, and three letters of reference to: **Edward D. Korn, Ph.D., c/o Nancy Shaw, 10 Center Drive, MSC 1668, Building 10, Room 7N214, Bethesda, MD 20892-1668.** Applications should be received no later than Monday, August 17, 1998.

NIH is an Equal Opportunity Employer.



New York Academy of Sciences

1998-1999 CONFERENCES

CUTANEOUS NEUROIMMUNOMODULATION: THE PROOPOMELANOCORTIN SYSTEM (CUT)

SEPTEMBER 11-13, 1998

Münster, Germany -
The Prince-Bishop's
Palace/University of Münster

ORGANIZERS: Thomas A. Luger,
Ralf Paus, James M. Lipton, and
Andrzej T. Slominski

ADVANCING FROM THE VENTRAL STRIATUM TO THE EXTENDED AMYGDALA: IMPLICATIONS FOR NEUROPSYCHIATRY AND DRUG ABUSE (AVS)

OCTOBER 18-21, 1998

Charlottesville, Virginia -
Omni Charlottesville Hotel

ORGANIZER: Jacqueline F. McGinty

INHIBITION OF MATRIX METALLOPROTEINASES: THERAPEUTIC APPLICATIONS (MMP)

OCTOBER 21-24, 1998

Tampa, Florida - Wyndham
Harbour Island Hotel

ORGANIZERS: Robert A. Greenwald,
Stanley Zucker, and Lorne Golub

THIRD INTERNATIONAL CONFERENCE ON CHARCOT- MARIE-TOOTH DISORDERS (CMT)

OCTOBER 21-24, 1998

Sainte-Adele, Quebec,
Canada - Hotel Le Chantecler

ORGANIZERS: Robert E. Lovelace
and Michael E. Shy

ANTI-CANCER PROTEINS AND DRUGS: STRUCTURE, FUNCTION AND DESIGN (ACP)

NOVEMBER 6-9, 1998

New York, New York -
The Rockefeller University

ORGANIZERS: Nancy E. Kohl,
C. Chandra Kumar, David P. Lane,
Wen-Hwa Lee, Hiroshi Maruta,
Bernd R. Seizinger, and
Peter Traxler

OXIDATIVE/ENERGY METABOLISM IN NEURODEGENERATIVE DISORDERS (OXE)

MARCH 19-22, 1999

New York, New York -
The Rockefeller University

ORGANIZERS: John P. Blass
and Fletcher H. McDowell

SYNDROME X - THE CONVERGENCE OF INSULIN RESISTANCE, HYPERTENSION, OBESITY AND SYSLIPIDEMIAS - SEARCHING FOR THE UNDERLYING DEFECTS (SDX)

APRIL 1999

Site: To be determined

ORGANIZERS: Barbara Calleen
Hansen, JoAnne Saye, and
Larry Wennogle

SOCIOECONOMIC STATUS AND HEALTH IN INDUSTRIAL NATIONS: SOCIAL, PSYCHOLOGICAL AND BIOLOGICAL PATHWAYS (SES)

MAY 11-12, 1999

Bethesda, Maryland -
The Natcher Auditorium,
National Institutes of Health

ORGANIZERS: Nancy Adler,
Michael Marmot, and
Bruce S. McEwen

LIPID MEDIATORS OF DIFFERENTIATION, GROWTH AND CELLULAR TRANSFORMATION (LIP)

JUNE 28-30, 1999

New York, New York -
The Rockefeller University

ORGANIZERS: Edward J. Goetzl
and Kevin R. Lynch

For Further Information Contact:

SCIENCE & TECHNOLOGY MEETINGS
New York Academy of Sciences
2 East 63rd Street
New York, NY 10021

Phone: 212-838-0230, ext 324

Fax: 212-838-5640

E-mail: conference@nyas.org

Website: www.nyas.org

GLOBAL OPPORTUNITIES

CATIE TROPICAL AGRICULTURAL AND HIGHER EDUCATION CENTER

POSITION ANNOUNCEMENTS

CATIE is an autonomous, nonprofit, international research and graduate education Center, with mandate in Latin America and the Caribbean. It is headquartered in Costa Rica and has been operating continuously since 1943. CATIE's mission is to improve the well-being of humankind by applying scientific research and higher education to the development, conservation, and sustainable use of natural resources in the Americas.

HEAD, PRODUCTION & CONSERVATION ECONOMICS AND SOCIOLOGY AREA

CATIE is searching for an experienced Environmental Economist or Sociologist to head its Production & Conservation Economics and Sociology Area, one of the four technical Areas of the Research Program. The successful applicant should have a degree in Economics, Environmental, Natural Resources, Agricultural Economics, and/or Sociology.

HEAD, TROPICAL ECOLOGICAL AGRICULTURE AREA

CATIE is searching for an experienced Agronomist to head its Tropical Ecological Agriculture Area, one of the four technical Areas of the Research Program. The successful applicant should have a degree in Agronomy, preferably with an emphasis in plant breeding, genetics, or biotechnology of tropical crops.

CHIEF BIODIVERSITY MANAGEMENT AND CONSERVATION UNIT

The successful applicant will consolidate an existing program including components such as: Biodiversity conservation in tropical production forests; Diversified tropical forest management; Protected areas research and management; Rural development based on the conservation and use of tropical biodiversity; and Economic valuation of forest goods and services. The successful applicant should have a degree in Natural Resources, Management, Forest Science or in an equivalent field.

GENETICIST SPECIALIZED IN MOLECULAR BIOLOGY WITH EMPHASIS IN TROPICAL CROPS AND/OR FOREST SPECIES

The successful applicant will be in charge of the Molecular Biology Lab and shall design, execute, and analyze research in the field of molecular characterization and genetic resources of forest species, tropical crops, pathogens that affect them, and in the field of genetic transformation. The successful applicant should have a degree in Plant Breeding, Genetics, or Biotechnology with emphasis in Molecular Biology or in an equivalent field.

QUALIFICATIONS

These positions will support CATIE's Research, Education, and Outreach Programs. They require experience in giving courses, guiding students of the Graduate School and elaborating project proposals. Applicants also require skills and experience working in a multidisciplinary, multicultural environment.

All applicants should have a Ph.D. degree or equivalent and a proven research record, with publications in international scientific journals. Experience in developing countries, with particular interest in Latin America, is highly desirable. Candidates must have an excellent command of written and spoken English and Spanish. Candidates for the Heads of Area positions must have managerial skills and experience in similar positions.

The salary is competitive with those of U.S./European Universities. Excellent benefits and an International Mission, tax-exempt status, are also provided.

Applicants: Please send résumé, with photography and a list of publications, professional presentations, names and addresses of three references to: **Viviana Sánchez, Head of Human Resources, CATIE 7170, Turrialba, Costa Rica. Fax: (506) 556-1533; Phone: (506) 556-0811; E-mail: vsanchez@catie.ac.cr.** For further information about position see our Web page: <http://www.catie.ac.cr>.

Applications will be accepted until August 30, 1998, or until the positions are filled.

Catie is an Equal Opportunity Employer and as keen to further diversify its staff in terms of both gender and nationality.



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

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION IN DEVELOPMENTAL AND MOLECULAR BIOLOGY

A postdoctoral position is available to work on fundamental questions regarding the role of homeobox genes during murine pattern formation. A particular emphasis is given to the analysis of genes participating in the regulation of the early events controlling murine eye development. Interested individuals with a strong background in molecular biology or mouse embryology should send their CV and the names of three references to:

Dr. Guillermo Oliver
Department of Genetics
St. Jude Children's Research
Hospital
332 North Lauderdale
Memphis, TN 38105
USA

www.stjude.org
equal opportunity employer

At Wyeth-Lederle Vaccines and Pediatrics, a member of the Wyeth-Ayerst family, we're pioneering the design, manufacture, and marketing of vaccines that are changing lives right now!

Here, you'll help improve the quality of a lot of lives, including your own. Our research facility, located in a suburb of Rochester, NY is within easy reach of some of New York State's most attractive cultural, educational and recreational activities.

RESEARCH SCIENTIST ASSAY DEVELOPMENT

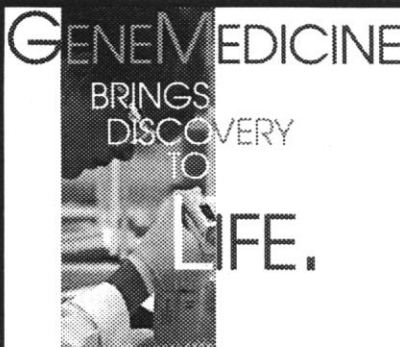
We are currently seeking a Research Scientist for our Assay Development Department. In this position, you will be responsible for developing immunoassays for support of clinical trials and successfully transferring the technology to routine testing laboratories. This position will have key interactions with various project teams and R&D departments.

To qualify, you should have a Ph.D. in Life Science fields (microbiology, virology, or immunology preferred) with a minimum of 2 years post doctoral related experience. Additional requirements include, laboratory research in infectious disease or immunological fields, where a significant component of the experience was in developing assays and assessing host responses to various immunogens. Excellent technical competence in performing and supervising laboratory research; oral and written communication skills; data management and statistical analysis and experience with GLP/GMP required.

At Wyeth-Lederle you'll enjoy a professional atmosphere and the kind of salary and benefits package you would expect from an industry leader. Please send your resume to: **Human Resources Department, Wyeth-Lederle Vaccines and Pediatrics, 211 Bailey Road, West Henrietta, NY 14586-9728.** An Equal Opportunity Employer.



Wyeth-Lederle Vaccines and Pediatrics
Protecting Families Through Immunization®



GENEMEDICINE, INC. is developing several novel, non-viral gene therapies which capitalize on the new broad front of genetic knowledge. Join this group of highly skilled and motivated researchers who are engaged in the discovery and development of novel genetic elements. We are seeking the following professional to work at our scenic facility in The Woodlands.

SR. SCIENTIST, FORMULATIONS TUMOR ENDOTHELIUM PLATFORM

Play an integral role in the design and development of gene delivery systems for cancer therapy. As a member of the Tumor Endothelium Team, you will provide your expertise in plasmid DNA formulations for intravenous administration to target sites of angiogenesis.

The successful candidate for this position will have a Ph.D. in Biochemistry, Polymer Chemistry, Biophysics or a related field and a minimum of 2 years of relevant post doctoral experience. Experience in formulating DNA plasmids with lipids, peptides or polymers and in physical characterization of macromolecular assemblies in biological and non-biological polymer systems is desirable. You should have excellent oral and written communications skills, experience working within interdisciplinary teams and competency with the Microsoft Office 97 suite.

GENEMEDICINE, INC. offers career growth and a highly competitive compensation and benefits package. For confidential consideration, please submit resumes via fax or e-mail to:
**Recruitment Manager at: 281/364-0858 or
recruitmentmanager@genemedicine.com**

GENEMEDICINE, INC. is an EEO Employer.



GENEMEDICINE, INC.

MOLECULAR BIOLOGIST Assistant Professor of Molecular Biology

The Department of Clinical Investigation in the Division of Medicine is seeking a research scientist with expertise in Cellular and Molecular Biology to conduct studies of cell growth regulation, signaling, and therapy of ovarian and breast cancer. The laboratory has investigated the role of oncogenes and tumor suppressor genes in these neoplasms and has identified targets and techniques for molecular and immunologic approaches to their management. Expertise in molecular biology, cellular biology, signaling, monoclonal antibodies, and immunoconjugates is desirable.

Interested applicants should send a letter and curriculum vitae to **Robert C. Bast, Jr., M.D., Head, Division of Medicine and Chairman (ad interim), Department of Clinical Investigation, Box 92, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77030.**

UTMDACC is an Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

**THE UNIVERSITY OF TEXAS
M. D. ANDERSON
CANCER CENTER**

Beyond Medicine to Health™



BS/MS Ion Channel Pharmacologist CNS Research

Hoechst Marion Roussel, a world leader in pharmaceutical based healthcare, is dedicated to extending and enhancing human life through discovery, development and manufacture of innovative products. Additional dedicated resources have created career opportunities within our expanding U.S. Strategic Research Center in Bridgewater, N.J.

Principal responsibilities include active participation in the team involved in assay development and the screening of drug candidates for CNS research in the field of ligand and voltage-gated ion channels.

Requirements:

BS/MS in Physiology, Pharmacology, or recognized equivalent discipline, Minimum of 2 years experience in an industrial or academic research laboratory in the field of ion channel research, including experience in one or more of the following areas:

**Cell culture techniques,
Patch clamp electrophysiology techniques,
Ion flux assays,
FLIPR technology.**

Attracting and retaining top talent is a high priority at Hoechst Marion Roussel. That is why we offer one of the most outstanding and comprehensive compensation and benefits packages in the pharmaceutical industry. Our total rewards package includes competitive compensation and bonus programs, flexible medical and dental plans, tuition assistance, income protection plans, and generous retirement plans that have been cited as the best in the industry. For consideration, mail your resume (suitable for scanning) including salary history/requirements, to: **Staffing Manager, D-103H, Ref #1998BW0021, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, U.S.A., or e-mail: jobs@hmri.com.** For additional company information, we invite you to visit our website: www.hmri.com.

An affirmative action employer M/F/D/V.

Hoechst Marion Roussel

Hoechst

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Horticultural Crops Quality Laboratory, in Beltsville, Maryland is seeking a Research Food Technologist/Microbiologist, GS-1382/403-12/13. Salary is commensurate with experience (GS-12: \$47,066-\$61,190 per year, GS-13: \$55,969-\$72,758 per year). *Candidates must be U.S. citizens.* The position conducts high-priority basic and applied food technology and microbiology research on food safety and quality of fresh and fresh-cut fruits and vegetables. In addition to the basic education requirements, applicants must demonstrate (1) knowledge of the principles, techniques, and procedures of food technology and microbiology, (2) ability to design, plan, conduct, and publish research in the area of food technology and microbiology, and (3) skill in the techniques used in the research of microorganisms in food. For information on the research program, contact **Dr. Ken Gross on (301) 504-6128**. This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application and for further description of the duties, applicants must request a copy of the vacancy announcement by calling (301) 504-1484 or by printing it from the internet at <http://www.ars.usda.gov/afm/hrd>. The vacancy announcement number for this position is ARS-S8B-8239. This announcement closes 08/17/98. *USDA/ARS is an Equal Opportunity Provider and Employer.*

Clinical Veterinary Microbiologist

Applications are invited for a tenure-track position at the assistant professor rank in the area of veterinary clinical microbiology in the Department of Microbiology at Colorado State University. The position is a 12-month tenure-track appointment with duties divided between clinical microbiology service (50%) and collaborative research (20%) at the Colorado State Veterinary Diagnostic Laboratory, and teaching (30%) through the Department of Microbiology. Candidates should possess the Ph.D., D.V.M.-Ph.D., or equivalent degree in microbiology; candidates with clinically related postdoctoral experience will be given preference. Candidates should have expertise in a subspecialty of clinical microbiology (preferably bacteriology), and have demonstrated competence or potential for innovative diagnostic service and research employing molecular techniques for investigation of infectious disease problems. The candidate will be expected to contribute to graduate and undergraduate teaching in the Department and to teach in the Professional Veterinary Medical curriculum.

Candidates should submit a curriculum vitae, a statement of career interests, and request that three letters of recommendation be sent to: **Dr. Jim Collins, Chair, Clinical Microbiologists Search Committee, Department of Microbiology, Colorado State University, Fort Collins, CO 80523.**

Closing Date: Applications or nominations will be considered until the position is filled; applications received by October 31, 1998, will be given full consideration.

CSU is EEO/AA Employer. E.O. Office: 101 Student Services.



RESEARCH GRANTS

The American Health Assistance Foundation invites applications from researchers at non-profit institutions for the following programs: **Alzheimer's Disease Research:** grant awards of up to \$100,000 per year for up to two years for research into the causes and treatment of Alzheimer's disease. Deadline is October 20, 1998.

National Glaucoma Research: grant awards of up to \$25,000 per year for up to two years for research into the causes and treatment of glaucoma. Deadline is November 16, 1998.

National Heart Foundation: starter grants of up to \$15,000 for one year for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career. Deadline is November 2, 1998.

For information and application forms contact: **Research Grants Department, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850. Telephone: 301-948-3244. Or visit our Website: <http://www.ahaf.org>.**



MARINE BIOGEOCHEMIST

We seek a Ph.D. oceanographer for a nine-month, Tenure-track position at the Assistant Professor level to begin in August 1999. The successful candidate will be expected to build a nationally recognized research program, to teach at the graduate and undergraduate levels, and to be involved in modest service activities at the departmental and university levels. We seek a person who would be able to offer courses relevant to both Chemical and Biological curricula and whose research interests complement those of our existing faculty in both areas. Applicants are encouraged to visit our website for more information about our faculty and program (<http://ocean.fsu.edu>). Please send a letter describing your research and teaching interests together with a curriculum vitae and the names, addresses, telephone numbers, and e-mail paths of three references to: **William M. Landing, Search Committee Chair, Department of Oceanography, Florida State University, Tallahassee, FL 32306-4320 USA. E-mail inquiries: wlanding@mailier.fsu.edu.** Review of applications will begin on August 28, 1998.

Florida State University is an Equal Opportunity/Affirmative Action Employer.

GLOBAL OPPORTUNITIES

CSIRO Plant
Industry, Australia



Post Doctoral Fellows

A\$44K - A\$50K + Superannuation

We are seeking highly motivated scientists for a number of Post Doctoral Fellow positions. You will be conducting innovative strategic research in one of the following areas - plant development and gene expression, plant cell biology, resistance genes for fungal diseases, and protein engineering for establishing component function. Applicants will have a proven record of research achievement and should have skills in one of the following areas - plant molecular biology, genetics, biochemistry, protein chemistry, plant physiology or food science.

An information package and selection documentation can be obtained by faxing 61 2 6246 5000 or email recruit@pi.csiro.au, or via our web site <http://www.pi.csiro.au/>

Applications close 31 August 1998.

Australian Science, Australia's Future

American Medical Association

Physicians dedicated to the health of America



At the American Medical Association, you'll have access to the latest information on what makes people tick. If you're interested in learning about the complexity of life, while helping us promote the betterment of public health, join us in one of the following positions:

Sr. Scientist

Working in the Office of Biomedical Science and Clinical Research, you will advise, plan and carry out programs related to genetic medicine and clinical research. Specific responsibilities include developing genetic policy and standards, determining educational needs of physicians and preparing policy reports. Researching and recommending positions on legislation and regulation completes your duties. We require a minimum of 5 yrs. post-doctoral academic, industry or government exp. Training in clinical or molecular genetics, excellent interpersonal and presentation skills, talent for analysis and organization, and a Ph.D. in a biomedical science, including nursing, genetics or health science are essential. Record of publications and the ability to obtain grant funding are preferred. (Dept. CES-602-SHD)

Scientist

Working in the Division of Health Sciences, you will be involved on projects dealing in food and nutrition, alcohol and substance abuse, and sexually transmitted diseases. Further responsibilities entail developing policies in areas impacting medical practices, responding to physician and public inquiries, presenting information and providing professional services to Health Science units. Knowledge of food safety and nutrition with an understanding of alcohol and drug abuse, and sexually transmitted diseases are required. Excellent writing and presentation skills, the ability to work on multiple projects simultaneously and a Master's degree in a Medical, Public Health or Life Sciences field are a must. (Dept. CES-10257-SED)

In return, we offer a competitive salary and benefits. Forward your resume with salary history, indicating position of interest, to: Carol E. Sprague, AMA, Div. of Placement, Dept. _____, 515 N. State St., Chgo., IL 60610. E-mail: placement@ama-assn.org Home page: www.ama-assn.org/ EOE.



POSTDOCTORAL POSITIONS MAYO FOUNDATION

Two positions are available to study nuclear determinants of mtDNA integrity and OXPHOS maintenance. Projects will focus on the identification and functional characterization of new mitochondrial proteins required for respiratory function through molecular/biochemical studies in yeast and mouse models.

Background in organelle biogenesis with experience in yeast genetics, molecular biology, and protein biochemistry are highly desirable, but all strong candidates will be considered. Salary will be determined by the successful candidate's experience, and there will be also an attractive benefit package. The positions are available from October 1998 for a period of at least two years. Mayo Foundation is a nonprofit, physician-led clinical practice integrated with education and research in a unified multicampus system. Send curriculum vitae and the names of three references to:

Grazia Isaya, M.D., Ph.D.

Mayo Foundation

Department of Pediatrics & Adolescent Medicine

c/o Cheryl Nelson

Research Services, 630 Siebens Building

200 First St. S.W.

Rochester, MN 55905

(FAX: 507-284-1772)

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POST-DOCTORAL POSITIONS IN MOLECULAR BIOLOGY

Laboratory of Biological Chemistry, National Institute on Aging, National Institutes of Health

Several post-doctoral positions are available in the Laboratory of Biological Chemistry, at the National Institute on Aging, for individuals interested in joining an expanding program devoted to the study of molecular and cellular responses to stress in mammalian cells and tissues. A wide variety of stress paradigms are under study including genotoxic agents, oxidant injury, heat and ER stress. Specific areas of interest include:

- Signal-transduction mechanisms controlling the expression of stress-responsive genes. Both transcriptional and posttranscriptional (mRNA and protein processing and stability) mechanisms are under investigation.
- Alterations in cell cycle regulation during the response to stress and consequences for cell survival.
- Stress response and aging in *in vitro* (cellular senescence) and *in vivo* model systems.
- SAGE analysis to identify novel mediators of the stress response.

Candidates must have a Ph.D./M.D. degree, less than 5 years of post-doctoral experience and a strong background in molecular and/or cell biology. Individuals with *in vivo* experience or expertise in *in vitro* cellular senescence are highly desirable. Applicants should send a curriculum vitae and names of references to:

Nikki J. Holbrook/Myriam Gorospe

Laboratory of Biological Chemistry, Box 12

Gerontology Research Center

5600 Nathan Shock Drive, NIA

National Institutes of Health, Baltimore, MD 21224-6825

nikki-holbrook@nih.gov . 410-558-8446

myriam-gorospe@nih.gov . 410-558-8443

NIH is an Equal Opportunity Employer



Research Institute of Innovative
Technology for the Earth

The Global Environment: Invitation for RITE Research Proposals

Research Institute of Innovative Technology for the Earth (RITE) is inviting basic research proposals dealing with global environmental problems. Also, research proposals deemed to contribute significantly to the resolution of global environmental problems will be supported by RITE in the form of entrusted research.

1. Category of Research

Basic research aimed at the development of innovative technologies that will contribute to the solution of global environmental problems.

2. Themes of Research

[A] Research concerning carbon dioxide, methane, and other greenhouse gases considered to be the primary causes of global warming:

- (1) Efficient separation, recovery, disposal, re-use, etc. of greenhouse gases.
- (2) Innovative process technologies that limit greenhouse gas generation.
- (3) Research concerning enhancement of CO₂ sinks (e.g., ocean sink, underground storage, and reforestation through biotechnology).

[B] Research on other technologies concerning global environmental problems as follows:

- (1) Control of the generation and widespread release of chemical substances, apart from the greenhouse gases mentioned in [A], which are seriously detrimental to the environment, or detoxification of those substances.
- (2) Substitutes for the chemical substances mentioned above.
- (3) Recycling and effective utilization of materials.

3. Number of Research Proposals to be Accepted

The number of research proposals to be accepted will be determined after the governmental budget for FY 1999 has been confirmed. Thirteen new research proposals have been accepted for FY 1998.

4. Research Expenses for Entrusted Research

Up to 10 million Japanese yen will be allocated for each research proposal, although the entire cost of research proposal may not be covered by RITE. Research expenses distributed for the research proposals accepted in FY 1998 ranged from 4 million to 7 million Japanese yen per research proposal, with an average of 6.12 million yen.

5. Deadline for the submission of Applications

Applications must be received by RITE no later than October 30, 1998.

***Attention: Applications received post deadline will be returned unprocessed.**

6. Period of the Entrusted Research

Period of the entrusted research will be from April 1999 to March 2000. If continuation is deemed necessary, however, RITE may entrust for the next year.

7. Qualified Research Participants

Individuals or groups engaged in research activities at research institutions, etc., are eligible. The applicants' citizenship or proposed site for the research will not be considered as criteria for selection.

8. Application Procedure

Applicants are asked to contact the RITE Section (as below) for further information on documents to be submitted and prescribed form thereof. Facsimile transmission is preferred for speed communication. Please include relevant Telephone and Fax numbers with requests.

Research Proposals Reception Section

Research Planning Department

RITE

9-2 Kizugawadai, Kizu-cho, Soraku-gun

Kyoto 619-0292 JAPAN

TEL: +81-774-75-2302 FAX: +81-774-75-2314

Internet homepage (URL) <http://www.rite.or.jp/>



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

ALSAC - Danny Thomas, Founder

POSTDOCTORAL POSITION IN MOLECULAR PHARMACOLOGY

An NIH funded postdoctoral position is immediately available to investigate the regulation and modulation of DNA repair pertinent to anticancer drug resistance. Studies are focused on the intracellular localization of a novel MGMT enhancer binding protein (Proc Natl Acad Sci 94:4348, 1997). Purification of this protein and isolation of its gene are priorities. Recent Ph.D.s with a strong background in molecular biology, cell biology and biochemistry will be considered. Experience with protein purification and gene cloning will be advantageous. St. Jude Children's Research Hospital offers an excellent research environment with state-of-the-art facilities, competitive salary and excellent benefits for fellows.

**For further information please visit our web site
at: www.stjude.org**

Please send a curriculum vitae, statement of research interests and the names and addresses of three references to: **Thomas P. Brent, Ph.D., Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-521-1668. E-mail: tom.brent@stjude.org**

Equal Opportunity Employer

GLOBAL OPPORTUNITIES



RIKEN BRAIN SCIENCE INSTITUTE, Japan

**LABORATORY HEAD IN DEVELOPMENTAL
BRAIN SCIENCE GROUP**

RIKEN, the Institute for Physical and Chemical Research (<http://www.riken.go.jp>) launched the Brain Science Institute (RBSI) in October 1997 (*Science* 275:1562, 276:1011; *Nature* 382:105). The RBSI has already set up two laboratories in Developmental Brain Science Group. They are Developmental Neurobiology Laboratory (Head, **Dr. Katsuhiko Mikoshiba**) and Developmental Gene Regulation Laboratory (Head, **Dr. Hitoshi Okamoto**). These laboratories are investigating the mechanisms of development and differentiation of the central nervous system by using mouse, zebrafish, *Xenopus laevis* frog, and other animals.

Two more new laboratories will open in 1999 for investigation of the molecular and cellular mechanisms of differentiation and regeneration of the nervous systems. A qualified candidate should have a strong background in cellular, molecular, and genetic neuroscience.

The laboratory head will be generously supported and will be responsible for recruiting 5-10 staff scientists and/or technical staffs. The laboratory head will be reviewed every 5 years by an international panel of experts and can continue the laboratory when a good evaluation is given. Applications are encouraged from around the world, but the person will be required to work full time at RBSI.

Applicants should submit a proposed project (not more than 1,000 words), along with a full curriculum vitae, listing all publications and the name, address, and telephone number of three references to:

Deadline for application: September 30, 1998.

**Search Committee #4, Brain Science Institute, RIKEN
2-1 Hirosawa, Wako, Saitama 351-0198 Japan
FAX: +81-48-467-9744**

e-mail: search4@brain.riken.go.jp



"FELLOWSHIPS FOR ITALIAN SCIENTISTS IN FOREIGN LABORATORIES"

(code 1.3)

The Comitato Telethon Fondazione Onlus offers **20 Italian scientists** the opportunity of working in a foreign laboratory for periods of between 12, 24 and 36 months in the field of inherited diseases (cancer is excluded). The research areas are: genetics, cell biology, biochemistry and molecular biology, biophysics, gene therapy and animal models.

Requirements: Italian nationality; degree in medicine or scientific subjects; under 35 years of age; at least 2 papers on international journals.

Period of validity: the terms for applications opens on **June 15 until September 30, 1998**.

The request for funding must be written in English on an **original form** available from **Comitato Telethon Fondazione Onlus**, Via Prospero Santacroce 5, 00167 Roma, Italy, Fax: +39 6 66015436, ph: +39 6 665961, e-mail: telethon@mail.telethon.it; Web page: <http://telethon.tigem.it>

Successful applicants will be awarded a research grant worth Lit. 3,500,000 per month (pre-tax).

"FELLOWSHIPS FOR FOREIGN SCIENTISTS IN ITALY"

(code 1.4)

The Comitato Telethon Fondazione Onlus offers **10 foreign scientists** (**Argentinian and Brazilian researchers are invited to see the announcement code 1.6**) the opportunity of working in an Italian laboratory for periods of between 24 and 36 months in the field of inherited diseases (cancer is excluded). The research areas are: genetics, cell biology, biochemistry and molecular biology, biophysics, gene therapy and animal models.

Requirements: degree in medicine or scientific subjects; under 38 years of age; at least 2 papers on international journals.

Period of validity: the terms for applications opens on **June 15 until September 30, 1998**.

The request for funding must be written in English on an **original form** available from **Comitato Telethon Fondazione Onlus**, Via Prospero Santacroce 5, 00167 Roma, Italy, Fax: +39 6 66015436, ph: +39 6 665961, e-mail: telethon@mail.telethon.it; Web page <http://telethon.tigem.it>

Successful applicants will be awarded a research grant worth Lit. 4,500,000 per month (pre-tax).

"FELLOWSHIPS FOR ITALIAN SCIENTISTS IN ITALY"

(code 1.5)

The Comitato Telethon Fondazione Onlus offers **10 Italian scientists** the opportunity of working in an Italian laboratory for a period of 24 months in the field of inherited diseases (cancer is excluded). The research areas are: genetics, cell biology, biochemistry, molecular biology, biophysics, gene therapy and animal models.

Requirements: Italian nationality; degree in medicine or scientific subjects; under 38 years of age; at least 2 papers on international journals; at least 12 months of research experience in a foreign laboratory.

Period of validity: the terms for applications opens on **June 15 until September 30, 1998**.

The request for funding must be written in English on an **original form** available from **Comitato Telethon Fondazione Onlus**, Via Prospero Santacroce 5, 00167 Roma, Italy; Fax: +39 6 66015436; ph: +39 6 665961; e-mail: telethon@mail.telethon.it; Website: <http://telethon.tigem.it>

Successful applicants will be awarded a research grant worth Lit. 4,500,000 per month (pre-tax), plus an annual grant of Lit. 50,000,000 for the independent research activity at the host laboratory.

FELLOWSHIPS "TELETHON - BNL" FOR FOREIGN SCIENTISTS IN ITALY"

(code 1.6)

The Fondazione Telethon, thanks to the financial contribution of Banca Nazionale del Lavoro (BNL), offers **2 Argentinian and 2 Brazilian researchers** the opportunity of working in an Italian laboratory for a period of between 24 and 36 months in the field of inherited diseases (cancer is excluded). The research areas are: genetics, cell biology, biochemistry and molecular biology, biophysics, gene therapy and animal models.

Requirements: degree in medicine or scientific subjects; under 38 years of age; at least 2 papers on international journals.

Period of validity: the terms for applications opens on **June 15 until September 30, 1998**.

The request for funding must be written in English on an **original form** available from:

Fondazione Telethon, Via Prospero Santacroce 5, 00167 Roma, Italy, Fax: +39 6 66015436, ph: +39 6 66015426, e-mail: telethon@mail.telethon.it; <http://telethon.tigem.it>

Banca Nazionale del Lavoro S.A., Florida 40 - Buenos Aires 1005 - Argentina, ph +54 1 323 4606/4600, fax + 54 1 323 4607, e-mail: osalvati@bnl.com.ar - Website: <http://www.bnl.com.ar>

Banco BNL do Brasil S.A., Avenida Paulista, 1963 - 01311-300 São Paulo - Brasil, ph. + 55 11 3170 6195/6070, fax + 55 11 251 2896/284 8597, e-mail: sabelli@bnl.com.br - Website: <http://www.bnl.com.br>

Successful applicants will be awarded a research grant worth Lit. 4,500,000 per month (pre-tax).

POSITIONS OPEN

COLUMBIA UNIVERSITY BIOMEDICAL ENGINEERING FACULTY

The newly announced Department of Biomedical Engineering of the Fu Foundation School of Engineering and Applied Science at Columbia University is seeking applications for two tenure-track faculty positions: one in the area of cardiac or cardiovascular biomechanics and one in cellular engineering. (Cellular engineering is the use of engineering methodologies to characterize cellular behavior or the rational modification of cells to become part of systems that solve biomedical problems). Applicants should have a background in biomedical engineering or a closely related engineering discipline. Applicants should be prepared to establish a vigorous and independent program of high-quality research. Close collaboration with the faculty and staff of Columbia's College of Physicians and Surgeons is expected, and qualified individuals may receive joint appointments. Other responsibilities include graduate and undergraduate teaching and curriculum development. Applicants at the **ASSISTANT** and **ASSOCIATE PROFESSOR** levels will be considered. An incentive recruitment package will be individualized to the needs of successful applicant. This appointment will commence during the academic year 1999-2000. Applicants should send a complete curriculum vitae, three samples of publications, record of funding, career goals, and names of five references to: **Professor Van C. Mow, Chair of Cardiac Mechanics Search, or Professor Edward F. Leonard, Chair of Cellular Engineering Search, Columbia University, CEPSS 416, Mail Code 8904, 530 West 120th Street, New York, NY 10027. Telephone: 212-854-4460.** Application deadline is November 30, 1998. *We take Affirmative Action toward Equal Employment Opportunity. Women and minorities are encouraged to apply.*

ASSOCIATE DEAN FOR RESEARCH AND GRADUATE STUDIES

The University of Wisconsin Medical School seeks an individual with outstanding scientific and leadership credentials to serve as Associate Dean for Research and Graduate Studies.

The Associate Dean will work closely with faculty to coordinate and develop diverse research programs and facilities, and will report to the Dean of the Medical School.

The successful candidate will demonstrate a commitment to encouraging interdisciplinary/intercollege faculty research and graduate student training, as well as to exploring and fostering collaborative partnership with industry leaders.

The Associate Dean will maintain a strong research and/or teaching program as a faculty member in an academic department appropriate to his or her research interest.

Send curriculum vitae and letter of interest to: **Elizabeth Craig, Ph.D., Chair, Associate Dean Search Committee, c/o Margie Martin, Room 1225 MSC, 1300 University Avenue, Madison, WI 53706.** To ensure full consideration, please apply by September 1, 1998. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *The UW-Madison is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine invites applications for a tenure-track position at the Assistant Professor level. The Department is seeking an outstanding individual who uses contemporary cellular or molecular genetic approaches to evaluate the development and/or function of the nervous system. Attractive facilities and start-up package are available. The Department currently has a strong base of Molecular and Cellular Neurobiologists studying problems of receptor and ion channel function and signal transduction in neurons and glia. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: **Michael J. Friedlander, Ph.D., Professor and Chair, Department of Neurobiology, 1719 6th Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021** by September 15, 1998. *UAB is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

NEUROPHARMACOLOGY

The Neurosciences Institute invites applications from researchers with a strong background in investigating central nervous system pharmacology for the position of **ASSOCIATE FELLOW** in experimental neurobiology. Applicants should be at the advanced Postdoctoral or Assistant Professor level. Successful candidates will be capable of developing an innovative research program and will be expected to take advantage of opportunities for scientific interactions with Fellows in experimental and theoretical neurobiology. Research at the Institute spans levels from the molecular to the behavioral.

Applications containing a statement of research interests, a curriculum vitae, and the names of three references should be sent to: **Director, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.** Fellows receive stipends and research support commensurate with qualifications and experience.

The Institute, an independent organization at the forefront of brain research, is also the home of the Neurosciences Research Program and serves as an international meeting place for Neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

ASSISTANT PROFESSOR WATER RESOURCES ACADEMIC YEAR APPOINTMENT

The Department of Natural Resources, University of New Hampshire, is seeking an Assistant Professor in water resources management (academic year appointment). The Department offers undergraduate degrees in water resources, soils, wildlife, forestry, and environmental conservation as well as an M.S. degree in natural resources. An interdisciplinary, university-wide Ph.D. program in natural resources was established in 1988. Additional information about the Department can be obtained from our website: <http://www.unh.edu/natural-resources/index.html>.

Initial teaching responsibilities include (1) introduction to water resources management and (2) watershed hydrology. Two additional courses such as wetland management, contaminant biogeochemistry, or advanced courses in the candidate's area of expertise will be taught on a staggered, every-other-year basis for a total of three courses (12 credits) per year. Candidates will be expected to interact with colleagues whose interests include ecosystem ecology, stream ecology, biogeochemistry, and soil science; develop a strong, extramurally funded research program; and be actively involved in graduate education. The position is available spring semester 1999. Candidates must have completed all requirements for the Ph.D.

Review of applications begins September 15, 1998. To apply, send a cover letter, curriculum vitae, statement of teaching and research interests, and three reference letters to: **Dr. William H. McDowell, Chair, Water Resources Search Committee, Department of Natural Resources, University of New Hampshire, Durham, NH 03824.**

UNH is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications and nominations of women, persons of color, and members of other underrepresented groups, including the disabled.

ASSISTANT PROFESSOR MOLECULAR PATHOLOGY LABORATORY

The Department of Pathology and Laboratory Medicine of the University of Pennsylvania invites applications for a tenure-track Assistant Professor in the Molecular Pathology Laboratory of the Division of Laboratory Medicine. Candidates must be an M.D. or M.D.-Ph.D., and should have research experience in molecular biological studies of mechanisms of neurodegenerative diseases and the ability to develop an independent research program in this area. Applicants should submit by November 15, 1998, a curriculum vitae, description of current and future research plans, and the names of three references to: **Dr. John Q. Trojanowski, Department of Pathology and Laboratory Medicine, Division of Anatomic Pathology, Medical Pathology Section, Hospital of the University of Pennsylvania, 3 Maloney, 3600 Spruce Street, Philadelphia, PA 19104-4283. FAX: 215-349-5909; e-mail: engelk@mail.med.upenn.edu.** *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF RADIOLOGY

The Department of Radiology, University of Minnesota Medical School is seeking a full-time Physician or Chemist for a tenure-track Assistant Professor position with primary responsibility to develop a research program in NMR spectroscopy and imaging in humans and animal models at high magnetic fields. This research effort is to focus on both technique development and applications in biomedical problems, with particular emphasis on (1) functional imaging of the brain with MRI and (2) multinuclear spectroscopy studies of metabolic and hemodynamic correlates of brain function. The appointee is also expected to: (i) foster collaborations with other faculty at the University of Minnesota and other institutions; (ii) participate in ongoing and future collaborative efforts based on high-field MRI and spectroscopy methodology at the Center for Magnetic Resonance Research (CMRR); (iii) generate grant applications and funding for such research projects independently and in collaboration with CMRR or other University of Minnesota faculty; and (iv) teach selected lectures within formal and informal graduate and undergraduate courses.

Candidates must have (1) a Ph.D. in either physics, chemistry, or related field, with Ph.D. thesis research in specific area of *in vivo* NMR spectroscopy and imaging; (2) at least three years of postdoctoral experience in development of MR spectroscopic spatial localization techniques for human and/or animal applications; (3) localized NMR spectroscopy applications with focus on multinuclear spectroscopy studies on humans; (4) MRI of brain function (fMRI); (5) knowledge of computer programming in C language; (6) necessary RF coil hardware and pulse programming for high-field (4 Tesla or higher) MR spectroscopy/imaging studies; (7) participation as a co-investigator in, and existing funding from, NIH and/or NSF or equivalent government research funding agency. Salary commensurate with experience. Anticipated start date is October 1, 1998.

Applicants must submit curriculum vitae and names and telephone numbers of three references to: **Kamil Ugurbil, Ph.D., Chair, Search Committee—Assistant Professor, Center for Magnetic Resonance Research, 385 East River Road, Minneapolis, MN 55455.** Deadline for receipt of applications is September 15, 1998.

The University of Minnesota is an Equal Opportunity Educator and Employer.

FACULTY POSITIONS COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS Departments of Physiology and Cellular Biophysics, Pathology, Anatomy and Cell Biology, Biochemistry and Molecular Biophysics, Genetics and Development, and The Center for Neurobiology and Behavior

As part of an expansion in developmental neurobiology at Columbia University, we invite applications for **TENURE-TRACK** faculty positions at all levels. Preference will be given to candidates who address fundamental questions and whose interests complement those of the existing groups of Investigators of developmental neurobiology at this campus.

Applicants must hold an M.D. or a Ph.D. and be capable of establishing and maintaining a strong, independent research program.

Please send a curriculum vitae, a brief statement of research interests, and three letters of reference by October 5, 1998, to: **Ms. Stacy Warren, Neurobiology Search, Columbia University, Physicians and Surgeons 15-402, 630 West 168th Street, New York, NY 10032.** E-mail applications will not be accepted. *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

Infectious diseases. Vanderbilt University seeks a full-time **TENURE-TRACK** or **TENURED FACULTY MEMBER** (M.D. or Ph.D.) in the Division of Infectious Diseases, Department of Medicine. The incumbent will be expected to bring or develop peer-reviewed laboratory-based investigative activities related to HIV infections in the fields of retrovirology or immunology, to be coordinated with clinical investigations of anti-retroviral therapies and vaccines. Academic rank consistent with qualifications. Reply with curriculum vitae, letter of interest, and names of three references to: **Martin J. Blaser, M.D., Division of Infectious Diseases, A-3310 Medical Center North, Vanderbilt University School of Medicine, Nashville, TN 37232-2605.** *An Equal Opportunity/Affirmative Action Employer.*

The Babraham Institute, Babraham, Cambridge CB2 4AT

Group Leader Positions in Mouse Developmental Genetics

The Babraham Institute carries out fundamental research in Health and Life Sciences. The Institute's research is organised into 4 Programmes: Developmental Genetics, Signalling, Cellular Immunology and Neurobiology. A commitment has been made for key new recruitments in Signalling and in Developmental Genetics.

We are seeking to build on our strengths in the Developmental Genetics Programme with the creation of a new Laboratory. Current research strengths include B cell development, imprinting and epigenetics, and molecular genetics of cognition (Nature 1997; 386, 25; 386, 324; 388, 670; 389, 809; PNAS 1997; 94, 10243; 94, 12509). We seek to recruit group leaders at the

junior (typically after second postdoc) and principal (Internationally recognised scientists) level.

Research areas should complement our existing strengths; areas of particular interest include pre and post implantation development, germ cells, signalling mechanisms in development, chromosome biology and epigenetics, lymphocyte development, and forebrain development and cognition.

Appointments are tenure track, can come with supporting positions and are supported by generous core consumables funding and use of subsidised facilities such as excellent transgenic/knockout facilities linked with a modern barriered animal house. Enquiries to Dr W Reik (Head of

Programme; wolf.reik@bbsrc.ac.uk) and Dr R Dyer (Director; richard.dyer@bbsrc.ac.uk).

Salaries are in the range of £22,000 to £40,000 per annum. A non-contributory pension scheme is offered along with 25 days leave and 10.5 public holidays per year. There is a Refectory, Nursery, Sports & Social Club and free car parking on-site.

Application forms are available from the Personnel Officer, The Babraham Institute, Babraham, Cambridge CB2 4AT, tel: 01223 832312, e-mail: gill.howden@bbsrc.ac.uk

Please apply by 31 August 1998 quoting reference WR/P.

The Babraham Institute is an equal opportunities employer.

The Babraham Institute

An Institute supported by the Biotechnology and Biological Sciences Research Council

The **Max-Planck-Society** offers the opportunity to set up an **Independent**

Junior Research Group
(Selbständige Nachwuchsgruppe)
in the Friedrich-Miescher Laboratory
in Tübingen.

The ideal candidate is younger than 35 years, has a proven research record and will synergize with, and benefit from, at least one of the following research areas:

**CELL BIOLOGY,
DEVELOPMENTAL BIOLOGY,
EVOLUTION or NEUROSCIENCE**

The contract is for a group leader position at the Assistant/Associate Professor level (German University scale C2/C3) and limited to 5 years, starting in August 1999. Appropriate laboratory space, equipment, and running costs, as well as the salaries for one additional scientist, one graduate student, and one technician will be provided.

Applications, including a tabular curriculum vitae, list of publications, and a short outline of their actual and future research objectives as well as names of referees should be sent by October 31, 1998, to: Prof. Dr. Friedrich Bonhoeffer, Max-Planck-Institut für Entwicklungsbiologie, Postfach 2109, D-72011 Tübingen, Germany.



MEDIZINISCHE FAKULTÄT DER HUMBOLDT-UNIVERSITÄT ZU BERLIN

The Charité Medical School of the Humboldt University Berlin/Gemrany is inviting applications for the University Professor of the Chair of Allergiology to be filled immediately (File number 167/98)

**Universitätsorofessir/in für Allergologie
Besoldungsgruppe C3 BBesG, Kennziffer: 167/98**

The salary is according to the classification for the C3 pay scale. The position is affiliated to the Clinic of Pediatrics with main emphasis on pneumology and immunology. The applicant will become head of the clinical research group "Determinants for the development of alopy and asthma" and will be responsible for teaching and research in the field of allergiology with main emphasis on experimental allergiology and immunology. The applicant is expected to organize interdisciplinary research projects involving clinical working groups of relevant fields. He/she shall be an established scientist. Qualification as university lecturer or equivalent scientific qualification is required.

Charité Medical School is an equal opportunity employer and welcomes applications by women to increase the proportion of female staff in university research and teaching. People with disabilities with equal qualification will be preferred.

Written applications including curriculum vitae, scientific career, relevant documents, list of publications and 5 selected publications are to be sent to:

Dekan der Medizinischen Fakultät Charité, Humboldt-Universität zu Berlin, Herrn Prof. Dr. med. Manfred Dietel, Schumannstrasse 20/21, 10117 Berlin, Germany.

Application deadline: six weeks after publication.

POSITIONS OPEN

DIVISION DIRECTOR FRED HUTCHINSON CANCER RESEARCH CENTER

The Fred Hutchinson Cancer Research Center is forming a new division combining the Division of Molecular Medicine with the Programs in Cancer Biology and Genetics. The focus of the new division will be on fundamental research in human biology and disease, particularly cancer. The division will be composed of individuals working on the basic science of human disease, cancer biology, and genomics. The Hutchinson Center invites applicants to head this new scientific division; the successful applicant must have a highly successful laboratory-based research program, proven leadership skills, and a vision for the future of human biology research.

Candidates should send a curriculum vitae, a concise statement of his/her research plans, and three letters of reference to:

Division Director Search Committee
Fred Hutchinson Cancer Research Center
Mailstop: A2M-015
1100 Fairview Avenue North
P.O. Box 19024
Seattle, WA 98109-1024

Application deadline: October 1, 1998.

FHCRC is an Equal Opportunity Employer committed to work force diversity and provides a smoke-free environment. Applications from female and minority candidates are strongly encouraged.

FACULTY POSITIONS IN MOLECULAR BIOLOGY

The Department of Medical Biochemistry of The Ohio State University College of Medicine invites applications for tenure-track positions at the level of **ASSOCIATE** or **ASSISTANT PROFESSOR** in molecular biology, particularly in the area of control of gene expression in eukaryotes. The successful candidates are expected to establish an externally funded research program and teach biochemistry/molecular biology to medical and graduate students. The selected candidates will have access to a large pool of graduate students, and ample opportunity to interact with numerous active research laboratories in the department, as well as other departments, research institutes, and centers on campus. A competitive start-up package will be available to the successful candidates. Review of applications will begin on September 2, 1998. Applicants should submit a curriculum vitae, selected reprints, a description of research interests and goals, and the names, addresses, and telephone/FAX numbers of three references to: **Chair, Faculty Search Committee, The Ohio State University, Department of Medical Biochemistry, 333 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

Position open. **DIRECTOR** of David H. Smith Conservation Research Fellowship Program. The Nature Conservancy (TNC) seeks a Ph.D. scientist in conservation biology, natural resource management, ecosystem ecology, or a related field to create and manage the nation's first Postdoctoral Fellowship program focused on conservation biology. To build and manage this new program the Director will identify outstanding Postdoctoral Fellows; match and oversee relationships between Fellows and academic and TNC mentors; develop relationships with key academic institutions; promote research to strengthen TNC's site-based biodiversity conservation; and publicize the program. For detailed job description see website: <http://www.tnc.org> or contact: M. Perez, Telephone: 703-841-4845; e-mail: mperez@tnc.org. Submit application by August 11, 1998, to: Dr. E. Chornesky, The Nature Conservancy, 1815 North Lynn Street, Arlington, VA 22209.

FACULTY POSITION. The Department of Physiology at the Ponce School of Medicine invites applications for a position at the level of **INSTRUCTOR** or **ASSISTANT PROFESSOR**. We are seeking individuals with a Ph.D. or equivalent and postdoctoral experience (Assistant Professor). The successful candidate will be expected to participate in the medical and graduate student programs. Review of candidates will begin immediately. Send curriculum vitae, a statement of goals, and names and addresses of three references to: Dr. Howard Mass, Chairman, Department of Physiology, Ponce School of Medicine, P.O. Box 7004, Ponce, PR 00732. Ponce School of Medicine is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Fruit Laboratory, in Beltsville, Maryland is seeking a **RESEARCH HORTICULTURIST**, GS-437-11/12. Salary is commensurate with experience (GS-11: \$39,270 to \$51,049 per year, GS-12: \$47,066 to \$61,190 per year). *Candidates must be U.S. citizens.* The position conducts high-priority basic and applied horticultural research on sustainable cultural systems applicable to small fruit production. For information on the research program, contact: **Dr. Richard Zimmerman, Telephone: 301-504-6647.** This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement by **Telephone: 301-504-1484** or by printing it from the Internet at website: <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-S8B-8250. This announcement closes August 31, 1998. USDA/ARS is an Equal Opportunity Provider and Employer.

THE SAMUEL ROBERTS NOBLE FOUNDATION FUNCTIONAL GENOMICS IN A MODEL LEGUME

The Plant Biology Division at the Samuel Roberts Noble Foundation has an opening for a **PRINCIPAL INVESTIGATOR** (at **ASSISTANT, ASSOCIATE, or FULL SCIENTIST** level) to initiate a new program in functional genomics in the model legume *Medicago truncatula*. We are looking for candidates with experience in molecular genetic/genomics approaches to fundamental problems in plant biology. Particular consideration will be given to candidates with backgrounds in plant-microbe interactions, root biology, natural product biosynthesis, or stress biology. The successful candidate will be expected to develop an internationally recognized program focusing on application of genomic approaches for assessment of gene function. Excellent opportunities exist for collaboration with existing groups in the Plant Biology Division currently working on alfalfa or *M. truncatula*, with the Foundation's new Forage Biotechnology Group. The Division provides state-of-the-art facilities and support services for molecular plant research. Initially, full funding will be available for the hire of four Postdoctoral and/or Technical positions for the new group. In addition, we intend to make future hirings in the areas of bioinformatics and high-throughput metabolite analysis as part of this new genomics program.

The Plant Biology Division is housed in new, excellently equipped facilities on the Foundation's campus at Ardmore, Oklahoma. It is expected that the successful candidate will eventually occupy half of a new 7,000-square foot laboratory addition. Competitive salary commensurate with experience; benefits and relocation expenses are provided. Applicants should send a full curriculum vitae, cover letter, and names of at least three referees to: **Jane Nance, Human Resources Assistant, The Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402.** For further information on the Noble Foundation, please visit our website: www.noble.org or contact: **The Division Director, Dr. Richard A. Dixon, Telephone: 580-223-5810** for further details. The Noble Foundation is an Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR LEVEL SIGNAL TRANSDUCTION CORE Winters Center for Heart Failure Research

The Department of Medicine, Baylor College of Medicine, invites applicants with hands-on experience in signal transduction/cell signaling to join a research team with focused expertise on cytokine biology and heart failure. Candidates should possess a Ph.D., M.D., or M.D.-Ph.D. degree and demonstrate an ability to teach and publish. Tenure status will be determined by qualifications. Salary and benefits competitive. Send letter of interest specifying areas of interest/expertise and curriculum vitae to: **Douglas L. Mann, M.D., Cardiology Research (151 C), Houston VA Medical Center, 2002 Holcombe Boulevard, Houston, TX 77030.** Baylor College of Medicine is an Equal Opportunity/Affirmative Action Equal Access Employer.

POSITIONS OPEN

EUKARYOTIC MICROBIAL PATHOGENESIS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Stanford University School of Medicine

The Department of Microbiology and Immunology invites applicants for a full-time, tenure-track position in the area of eukaryotic microbial pathogenesis, i.e., the study of protozoal and fungal pathogens. Within this broad scope, any aspect will be considered, but persons with an interest in molecular basis of pathogenicity and/or the host-immune response are especially encouraged to apply. This position will likely be filled by an individual at the level of **ASSISTANT PROFESSOR**, although applications at the rank of **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** will also be considered. The individual filling this position will play a major role in the graduate training program and teaching programs of the Department. The position offers an excellent environment in microbiology, immunology, and other basic biomedical sciences, outstanding scientific resources, and a wide variety of potential research collaborations. Applicants are encouraged to submit a curriculum vitae, bibliography, a brief (one to two pages) description of research interests and future plans, and three letters of recommendation by October 15, 1998, to:

Dr. John C. Boothroyd
Chair, Search Committee
Department of Microbiology and Immunology
Stanford University School of Medicine
300 Pasteur Drive, Fairchild D-305
Stanford, CA 94305-5124

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

CELL BIOLOGY POSITIONS

The Department of Cell Biology has tenure-track faculty positions available at all levels for appointment in the fall of 1998. Applicants should hold a Ph.D., M.D., or equivalent degree. Candidates for senior positions should have funded and established independent research programs. Applicants using molecular, genetic, or biochemical approaches to investigate fundamental problems in cellular and developmental aspects of neurobiology are especially encouraged to apply. Opportunity exists for interactions with Investigators at the Oklahoma Center for Neuroscience, Dean A. McGee Eye Institute, and the Oklahoma Medical Research Foundation. Department responsibilities include teaching cell biology, pharmacology, and anatomy to professional and graduate students. Applicants should submit their curriculum vitae, a summary of past and proposed research, and names of three references to: **Robert E. Anderson, M.D., Ph.D., Professor and Chairman, Department of Cell Biology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190.** Telephone: 405-271-2377; FAX: 405-271-3548; e-mail: robert-anderson@ouhsc.edu. Visit our website: http://w3.uohsc.edu/cell_biology. Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK POSITION NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

A tenure-track position is available in the Laboratory of Allergic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Public Health Service, for an M.D. or M.D.-Ph.D. scientist to develop an independent research program related to the exploration of the mechanisms of allergic inflammation and their treatment. Space, technical and Postdoctoral Fellow support, supply budget, and salary are committed. Training in the techniques of molecular biology and/or clinical research is desirable. Preference will be given to applicants who are Board-certified in pediatrics, have training in allergy and immunology, and have studied eosinophil biology. *Applicants must be U.S. citizens or permanent residents.* A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interest, and selected publications should be submitted to: **Dr. Thomas Fleisher, Chairperson, c/o Cindy Pagonis, National Institutes of Health, National Institute of Allergy and Infectious Diseases, Laboratory of Allergic Diseases, Twinbrook II, Room 200E, 12441 Parklawn Drive, Rockville, MD 20852.**

The NIH is an Equal Opportunity Employer.

HOME



News

Announcements

Information

Education

Research

Faculties
& services

Databases

Vacancies

Search

Colophon



The research performed by the department of Applied Physics is concentrated in three core areas which each cover a portion of the field of physics, namely optics, materials science and fluid physics. The research in these core areas is supported by twelve full chairs. The core area of optics consists of the chairs of Laser Physics, Biophysical Techniques, Optical Techniques and a portion of the chair of Materials Science. The research currently being performed by the chair of Laser Physics (formerly Quantum Electronics) covers the development of gas lasers (pulsed gas discharge excimer lasers, RF-gas discharge lasers, as well as free electron lasers of the Compton and Cerenkov type). In addition, the chair works in close cooperation with the Nederlands Centrum voor Laser Research (NCLR) which performs research on industrial applications of laser physics.

For the chair of Laser Physics we invite applications for the position of a

Full Professor of Laser Physics (m/f) (full time position)

to be engaged both in teaching activities and in research in the field of laser physics.

• Tasks You will manage the staff that are assigned to your chair. You will initiate and activate new research activities in the development and construction of laser physics, technology and systems, including a possible expansion into the area of solid state lasers. In specifying research projects, you will strive for cooperation with the other chairs of the department, in particular those in the core area of Optics. You will play an active role in the submission of project proposals to organizations involved in indirect government funding and to industry. You will cooperate with the Nederlands Centrum voor Laser Research in the development of industrial applications of laser physics. You will be engaged in teaching related to your field and will contribute to the general educational tasks of the department. You will contribute to the organizational and management tasks of the department.

• Requirements for the Position You possess a thorough and broad expertise in the field of laser physics and are familiar with the applications thereof in industry. You possess good teaching capabilities. You have a personal scientific view on the developments in your field and show inventiveness and creativity in research assignments. You evidence leadership and organizational qualities.

• Appointment Appointment and salary will be in accordance with the Collective Employment Agreement of the Dutch Universities.

• Application For further information you may contact the chairman of the nomination committee, Prof. dr. J. Greve, tel. +31.53.4893157, e-mail address J.Greve@tn.utwente.nl. For suggestions concerning candidates considered suitable for the position you may likewise contact Prof. Greve. Written applications should be addressed before the 26th of September 1998 to the Managing Director of the Faculty of Applied Physics, Dr. C.L.M. Pouw, University of Twente, P.O. Box 217, 7500 AE Enschede, The Netherlands, mentioning the vacancynumber 1258/98/119.



University of Twente
The Netherlands

POSITIONS OPEN

IMMUNOLOGIST/CANCER BIOLOGIST THE BEN MAY INSTITUTE FOR CANCER RESEARCH The University of Chicago

The University of Chicago is seeking applicants for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The Ben May Institute for Cancer Research (BMICR) is a basic research unit that for 45 years has been committed to the study of basic mechanisms of cancer and immunology. The current faculty is committed to an interdisciplinary approach using established and newly emerging biochemical, genetic, molecular, and structural biological tools to attack basic problems in cancer biology and immunology including, but not limited to, cell growth and differentiation, signal transduction, structural biology, and immunotherapy.

The BMICR is closely interfaced with the University of Chicago NCI-designated Comprehensive Cancer Center, the University of Chicago Center for Molecular Oncology, and the Gwen Knapp Center for Lupus and Immunology Research. Additionally, the BMICR is closely affiliated with degree-granting committees on immunology and cancer biology. Candidates should have sufficient research experience to demonstrate both significant accomplishments and outstanding potential. Letters of recommendation including curriculum vitae, bibliography, a brief statement of research interest, and the names of three references should be sent to: **Search Committee, Ben May Institute for Cancer Research, 5841 South Maryland Avenue, MC6027, Chicago, IL 60637.** The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

ATTORNEY/PATENT

Birch, Stewart, Kolasch & Birch, LLP, a rapidly growing intellectual property law firm, with 50-plus Patent Attorney/Agents located in Northern Virginia (near Washington, D.C.) and having a broad international and high-tech client base, is accepting applications for:

CHEMICAL ATTORNEY/AGENT OR TECHNICAL ADVISOR BIOTECH ATTORNEY/AGENT OR TECHNICAL ADVISOR

Successful candidates preferably should be former examiners or have prosecution experience with an applicable degree. Responsibilities include preparation and prosecutions of patent applications, opinion work, and may include some litigation. Excellent credential and writing ability are essential.

We offer a competitive salary and a full benefits package. Qualified candidates should forward their résumé, writing samples, and salary requirements, in confidence to:

Birch, Stewart, Kolasch & Birch, LLP
Human Resources
P.O. Box 747
Falls Church, VA 22040
FAX: 703-205-8004

No telephone calls.

STAFF SCIENTIST POSTDOCTORAL POSITIONS FOR MOLECULAR BIOLOGISTS

To join The Seattle Project/Merck Program to develop new paradigms for discovery of anticancer drugs that selectively kill mammalian cells defective for alterations that occur in tumor cells. Experience in mammalian or yeast signaling pathways and cancer biology required. Send curriculum vitae, three letters of reference, and a description of current research endeavors and long-term interest by September 1, 1998, directly to: **Stephen H. Friend, M.D., Ph.D., Director of Molecular Pharmacology, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, DE-551, Seattle, WA 98109.**

RESEARCH ASSISTANT (M.S. in organic chemistry required) to make substrates for mechanistic studies of enzymes involved in peptidoglycan biosynthesis. Must have two-plus years of experience in multistep organic synthesis and purification/characterization techniques including two-dimensional NMR. Background in enzymology and protein purification helpful. Send curriculum vitae and two letters of reference to: **Carole Kameswaran, Department of Chemistry, Princeton University, Princeton, NJ 08544.** Princeton University is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CLINICAL RESEARCH TRAINING FELLOWSHIPS CANCER RESEARCH LABORATORIES Queen's University, Kingston, Ontario Canada and Cancer Care Ontario

Clinical Research Fellowships are available for postresidents in pathology, surgery, or a related medical field to work on the molecular and cellular biology of human cancer. The Cancer Research Laboratories are composed of 10 Principal Investigators with approximately 60 graduate students, Postdoctoral Fellows, and Technologists. Research interests include multiple-drug resistance and drug metabolism; tumor progression and metastasis; and regulation of cell growth, proliferation, and differentiation. Further details are described on our website: <http://meds-ss10.meds.queensu.ca/medicine/crl/>. Previous laboratory research training and experience would be an asset; however, Fellows will work closely with experienced personnel and will be expected to bring a clinical perspective to their project. Positions are normally for one year, potentially renewable for a second, at a salary scale commensurate with experience. Interested individuals should send curriculum vitae, summary of research interests, and the names of three referees to: **Dr. R. Deeley, Director and Stauffer Research Professor, Cancer Research Laboratories, 3rd Floor, Botterell Hall, Queen's University, Kingston, Ontario K7L 3N6 Canada. E-mail: mm38@post.queensu.ca; FAX: 613-545-6830.**

Queen's University has an Employment Equity program, welcomes diversity in the workplace, and encourages applications from all qualified candidates, including women, aboriginal peoples, people with disability, and racial minorities.

STAFF SCIENTIST, #SD-8422

Join team in DNA Microarray Facility providing gene expression services to research laboratories. Design microarrays, develop protocols, interact with industrial partners, assist Principal Investigators in design and interpretation of experiments, data maintenance and transfer, responsible for quality control and quality assurance. Ph.D. in molecular biology, genetics, or related field with three years of related experience or equivalent required. Experience with gene expression assay development, primer design, assay optimization procedures, robotics, and diverse computer skills highly preferred.

STAFF SCIENTIST MASS SPECTROSCOPY #SD-8426

Work both independently and in collaboration with researchers to design experiments and perform mass spectroscopy on biological samples using state-of-the-art techniques. Will be involved in other activities such as design, maintenance, analysis preparation, and presentation of results. Must be a Ph.D. with zero to three years of postdoctoral experience or a M.S. with 10-plus years of protein biochemistry experience including three to four years in the analysis of biomolecules by MS.

To obtain additional information on the above positions and other openings, please visit our website: <http://www.fhcr.org> or call our jobline, Telephone: 206-667-2977. Include the job number on cover letter and send with curriculum vitae to: **Fred Hutchinson Cancer Research Center, 1300 Valley Street, Seattle, WA 98109. FAX: 206-667-4051.**

DEPUTY CENTER DIRECTOR POSITION. For the Texas A&M University-Kingsville Citrus Center and the Texas A&M University System Agricultural Research and Extension Center at Weslaco (the Weslaco Center). The Citrus Center is a research center specializing in fruit tree crops with emphasis on citrus research, extension, and education activities. The Weslaco Center is a large research and extension center specializing in several field, vegetable, and ornamental crops.

Duties: The Deputy Center Director will manage the Citrus Center including budgets and research activities. The Deputy Director interacts with the public, growers, state and industry agencies, and a Citrus Advisory Committee made up of industry and community leaders. The incumbent reports to the Dean of the College of Agriculture and Human Sciences at Texas A&M University-Kingsville through the Center Director. The incumbent will maintain an individual research program commensurate with administrative responsibilities and carry an academic rank of Associate or Full Professor at Texas A&M University-Kingsville.

To apply or for more information please Telephone: 956-968-2132. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

TEXTBOOK-REVISION PROJECT MANAGER BIOLOGICAL SCIENCES CURRICULUM STUDY

The Biological Sciences Curriculum Study (BSCS), a 40-year-old, nonprofit science education organization, is planning the eighth edition of its flagship high school biology text, *BSCS Biology: A Molecular Approach*. We seek an experienced Project Manager to direct the revision of the program, which includes a student text, teacher's annotated edition, and ancillary components. Competitive candidates will have experience developing books for publication, writing molecular biology content, and using inquiry to organize teaching and learning. A Master's degree in molecular biology or biochemistry is essential (Ph.D. preferred), and teaching experience is desired. The project will last 18 months, beginning in September 1998, with the potential for continued employment on future projects. Applications will be evaluated as they are received until the position is filled. BSCS offers a competitive salary, excellent benefits, and a nonsmoking environment. Interested candidates should FAX and mail a cover letter, résumé, and brief technical writing sample to: **Biological Sciences Curriculum Study, 5415 Mark Dabbling Boulevard, Colorado Springs, CO 80918, Attn: BV8 Search. FAX: 719-531-9104.** No telephone calls. An Equal Opportunity Employer.

BIOLOGICAL SCIENCES

The University of Chicago is seeking a **TEACHER/SCHOLAR/ADMINISTRATOR** to design the Integrative Biology Curriculum for non-science majors under the auspices of the HHMI Undergraduate Program. The successful applicant will also function as Assistant Director under the leadership of the Program Director, **José Quintáns**. Initial appointment is for two years, renewable for another two years; salary is negotiable. Applicants should hold a Ph.D., be broadly educated in biology, having a strong interest and experience in general undergraduate education. Starting September 1998 or as soon thereafter as possible. Applicants with prior teaching experience are preferred. Send curriculum vitae, three letters of reference, and a statement of teaching interest by August 25, 1998, to: **José Quintáns, The University of Chicago, Biological Sciences Learning Center, Room 104-c, 924 East 57th Street, Chicago, IL 60637.**

ASSISTANT PROJECT NEUROSCIENTIST. The Department of Neurosciences at the University of California, San Diego has an academic position available immediately for a qualified Ph.D. or M.D. in pharmacological therapy of experimental stroke. Will perform studies using animal models of stroke to investigate new therapeutics and mechanisms of injury. Background in pharmacology and ability to perform animal surgery required. Knowledge of histology, statistics, and behavioral testing are desirable. Salary based on UC pay scale. Send curriculum vitae, statement of research interests, and three references by August 7, 1998, to: **Justin A. Zivin, M.D., Ph.D., University of California, San Diego School of Medicine, Department of Neurosciences, 9500 Gilman Drive, La Jolla, CA 92093-0624. E-mail: lleonguerrero@ucsd.edu.** Applications will be accepted until position is filled. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST (Ph.D.) to study neural mechanisms underlying the cognitive control of movement. Candidates must have expertise in behavioral studies in unrestrained primates; recording multichannel neuronal activity and head/eye position during locomotion; hardware/software development using Sun workstations; management: training and supervising technicians and students.

Applications (reviewed immediately) to: **F. Wilson, Neural Systems, Memory, and Aging, University of Arizona, Tucson, AZ 85724-5115.** The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer/Minorities/Women/Disabled/Veterans.

University of Florida seeks a **RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Endocrinology. Ph.D. degree with five (5) years of experience. Background in vascular cell biology, diabetes, lipoprotein, and lipid metabolism. Grant experience required. Salary and benefits commensurate with experience. Recruiting deadline, December 31, 1998. Anticipated starting date July 1, 1999. Please reply to: **Desmond Schatz, M.D., Associate Professor, Division of Endocrinology, Box 100277 JHMC, Gainesville, FL 32610.** An Affirmative Action/Equal Opportunity Employer.



UNIVERSITY OF OXFORD

Nuffield Professorship of Pathology

The electors intend to proceed to an election to the newly-established Nuffield Professorship of Pathology with effect from as early a date as may be arranged.

The professor will be medically qualified and have a proven track record in teaching, in research, and in his or her clinical speciality, namely istopathology/cytopathology/cell analysis. The successful applicant's research interest should focus on the molecular aspects of disease processes.

A non-stipendiary fellowship at Pembroke College is attached to the professorship.

Applications (twelve copies, or one only from overseas candidates), naming three persons who have agreed to act as referees on this occasion, should be received not later than **7 September 1998** by the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, from whom further particulars may be obtained (professorships@admin.ox.ac.uk).

Professorship of Genetics

The electors intend to proceed to an election to the Professorship of Genetics with effect from 1 October 1999 or such later date as may be arranged.

A non-stipendiary fellowship at Keble College is attached to the professorship.

Applications (ten copies, or one only from overseas candidates) naming three persons who have agreed to act as referees on this occasion, should be received not later than **21 September 1998** by the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, from whom further particulars may be obtained.

The University is an Equal Opportunities Employer.



Max-Planck-Institute of Cognitive Neuroscience, Leipzig

The Max-Planck-Institute of Cognitive Neuroscience in Leipzig, Germany, has a position available for a

Senior MR Physicist

The NMR-group has access to a modern 3 T system and conducts research on the following areas: Biophysics of MR, Perfusion and Diffusion Imaging, Fast Imaging. The successful candidate should possess a PhD in MR imaging as well as significant post-doctoral experience and a proven track-record in one of the above areas. He/she will be expected to take a leading role in the scientific activities of the group. Command of the German language is not required. The contract is renewable up to a maximum of five years, salary shall be on the basis of the German public sector scale.

Preference will be given to disabled persons of the same qualification.

For information contact **David Norris** by e-mail: norris@cns.mpg.de.

The deadline for applications is **15th August, 1998**, and should be addressed to:

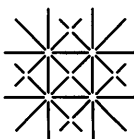
**Max-Planck-Institut
für neuropsychologische Forschung Leipzig
-Verwaltung-
Inselstraße 22-26, D-04103 Leipzig, Germany**



The University of Basel, Biozentrum. Faculty positions in

Molecular Microbiology

We are now seeking applicants with a broad interest in molecular microbiology for two tenure-track assistant or tenured professorships. Candidates investigating the molecular mechanisms of microbial interaction with eucaryotic cells will be preferred. Use of a genetically tractable microorganism is desired. The successful candidate will be provided with startup support including funding, personnel, as well as departmental service facilities and will be expected both to generate an internationally recognized research program and to contribute enthusiastically to our teaching program. Applications from qualified women are especially encouraged. Applicants should send their curriculum vitae, the names of three referees, teaching experience, as well as a summary of their future research plans before October 31st, 1998 to **The Dean of the Natural Science Faculty, University of Basel, Professor Stefan Schmid, Missionsstrasse 64, CH-4055 Basel, Switzerland.**



UNI
BASEL



UNIVERSITÄT POTSDAM



DEUTSCHES INSTITUT FÜR
ERNÄHRUNGSFORSCHUNG

The position of

Scientific Director

(Professor C4)

at the Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke (German Institute of Human Nutrition) is to be filled in by **March 1, 2000**.

The Deutsche Institut für Ernährungsforschung is a member institute of the Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz and is funded by the State of Brandenburg and the Federal Government. It performs basic research on the relationship between human nutrition and health with special emphasis on molecular genetics, cell biology and epidemiology of nutrition-related physiological and pathophysiological processes.

The institute is headed by the board of directors, consisting of the scientific director and administrative director.

Detailed information on the structure and work of the institute can be gathered from the annual report 1996 (obtainable from the **Public Relations of the DIFE, Arthur-Scheunert-Allee 114/116, D-14558 Bergholz-Rehbrücke, or via homepage <http://www.dife.de>**).

The position will be filled in within a dual appointment scheme as C4-professorship with the University of Potsdam. Habilitation or commensurate scientific achievements are required.

The responsible task requires a personality with outstanding, internationally recognized performance in human nutrition, medicine or biology as well as proven knowledge of modern, particularly molecular research methods. The demanding position requires leadership qualities, integration skills, innovative spirit, and long-standing considerable managing experience.

The University of Potsdam endeavors to raise the percentage of women in the scientific field. Therefore, women are especially encouraged to submit their applications. Applications from disabled persons will be favored in case of equal qualification.

Applications should be submitted by **September 15, 1998** to the chairman of the search committee

Prof. Dr. H.B. Stähelin
Geriatrische Universitätsklinik, Kantonsspital Basel
CH-4031 Basel, Switzerland
(Phone: +41-61-265 29 54/5)

POSITIONS OPEN

IMMUNOASSAY AND VIROLOGY GROUP LEADERS AIDS VACCINE DEVELOPMENT

VaxGen, Inc., founded in 1995, is building a national and international science-driven organization dedicated to the development of an AIDS vaccine. VaxGen is currently expanding its clinical assays program to support Phase 3 clinical trials and is seeking exceptionally qualified individuals at the **SCIENTIST** level to manage immunoassay or virological assay groups. The positions require at least five years of experience in clinical assay development and implementation. The successful candidates will manage groups responsible for the development and performance of ELISA or HIV-1 virus neutralization assays. Responsibilities for each group include assay development and implementation, clinical sample receiving and storage, and data analysis and report writing. The position requires hands-on experience with all aspects of clinical assay procedures, good people management and communication skills, experience with GLP procedures. VaxGen offers a full benefits and a competitive salary package. Applicants should send a curriculum vitae and the names of three references to: **Phillip Berman, Ph.D., VaxGen, Inc., 501 Forbes Boulevard, South, San Francisco, CA 94080.**

RESEARCH ASSOCIATE POSITION

Research Associate position available for an individual with Ph.D. and expertise in cell biology to conduct research in the renal cellular response to urinary tract obstruction, with emphasis on growth factors and angiotensin. Primary responsibilities include planning and executing experiments, direction of laboratory personnel, and preparation of grant applications and publications. In addition to managing a research program under the direction of the Principal Investigator, supervision and maintenance of a cell biology core laboratory is required. A background in cell biology is essential. Please submit curriculum vitae to: **Robert L. Chevalier, M.D., University of Virginia, Children's Medical Center, Department of Pediatrics, Box 386, Charlottesville, VA 22908.** The University of Virginia is an Affirmative Action/Equal Opportunity Employer.

Human/mammalian genetics and cytogenetics. Immediate openings for Ph.D.'s and M.D.'s in clinical and basic human and/or mammalian genetics, and clinical cytogenetics.

Cytogenetics: three-year ABMG-accredited program of clinical cytogenetics and research-lead ABMG candidacy.

Human/mammalian genetics: Research emphasis on disease gene identification, linkage, po cloning, and molecular genetics/biochemical pathophysiological mechanisms and mouse model human diseases. Send curriculum vitae and reference letters to: **Gregory A. Grabowski, M.D., Director, Program in Human Genetics, Children's Hospital Medical Center, 3333 Burnet Avenue, Pav 3-52, Cincinnati, OH 45229-3039.** CHMC is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to study regulation of the retinoblastoma and p107 genes, genetic analysis of erythrocyte protein 4.2, and regulation of receptor and enzyme activities by mRNA editing. Applicants with expertise in the creation and analysis of knock-out or transgenic mice, or in the study of neural receptor, DNA polymerase, or cell cycle regulation are preferable, but not required. Please forward curriculum vitae and the names of three references to: **Dr. Long-Sheng Chang, Department of Pediatrics, Children's Hospital and The Ohio State University, W230, 700 Children's Drive, Columbus, OH 43205.** FAX: 614-722-2804; e-mail: lchang@chi.osu.edu.

MOLECULAR VIROLOGIST

PH.D. JUNIOR FACULTY position at Emory University/VA Medical Center. Position entails research on antiviral agents and resistance. Expression of genes and cloning experience required. *Must be U.S. citizen.* Respond by August 21, 1998, to: **Dr. R. Schinazi, Emory University/VA, FAX: 404-728-7726.** Equal Employment Opportunity/Affirmative Action/Minorities/Females.

RESEARCH POSITIONS available in the areas of molecular biology and genetics. Ph.D. required. Applicants should send curriculum vitae, references, and a brief description of research interests to: **Lynn Egloff, Department of Molecular Biology, Princeton University, Lewis Thomas Laboratory, Princeton, NJ 08544.** Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions are available for **TENURE-TRACK** faculty appointments, **OPEN RANK**, in the general areas of organic chemistry or inorganic chemistry.

Completed applications must be received by October 15, 1998. Appointment will commence on or after September 1, 1999.

Applicants must be strongly motivated toward creative research and committed to teaching at the undergraduate and graduate levels.

All applications must include the following materials: a current curriculum vitae and list of publications; a brief statement of research interests (three pages or less); and arrange to have three letters of reference sent on your behalf to the Chair of the appropriate search committee (see below).

Applications in the general area of organic chemistry should be addressed as follows:

**Chair, 1998-99 Organic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

Applications in the general area of inorganic chemistry should be addressed as follows:

**Chair, 1998-99 Inorganic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080**

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

ANATOMISTS

The Department of Anatomy, National College of Chiropractic seeks applicants to immediately fill two **TENURE-TRACK** positions. The successful applicants will teach in a problem-based learning curriculum. Specific duties include instructing in gross and neuroanatomy lectures and laboratories, facilitating small groups, and engaging in scholarly activity. Applicants should have a Ph.D. or equivalent (postdoctoral experience is desirable). The successful candidates will join a congenial faculty that is dedicated to excellence in teaching and active scholarship. Applicants should submit curriculum vitae, graduate and undergraduate transcripts, reprints (up to five), a list of three personal references, and a brief description of teaching and scholarly goals to: **Dr. Barclay W. Bakkm, Chair, Anatomy Search Committee, The National College of Chiropractic, 200 East Roosevelt Road, Lombard, IL 60148.**

PRESIDENT BIOMEDICAL/BIOTECHNOLOGY

Prestigious biomedical research institution located in northern New England seeks a President to lead, significantly grow, and develop its business activities. This world-renowned supplier provides mammalian genetic goods, services, and information that support applied and basic research to biotechnology, biomedical, genetic engineering, and molecular biology markets. We are looking for a General Management Executive who has run a \$50 to \$100 million enterprise serving these same markets and has a familiarity and knowledge base in the biology field. Reply in full confidence to: **Nordeman Grimm Search Firm, Pierson Keating, Partner, FAX: 212-980-1443.**

POSTDOCTORAL FELLOW. Applications are invited for two immediate Postdoctoral Fellowships to study hematopoietic stem cell genetics and cancer gene therapy. Candidates with a Ph.D. degree in biochemistry, genetics, or molecular biology are preferred. Please submit a curriculum vitae and the names of three references to: **Michael F. Clarke, University of Michigan Medical School, Department of Internal Medicine and Molecular and Cellular Biology, 1500 East Medical Center Drive, 4-310 CCGC, Ann Arbor, MI 48109-0936.** FAX: 313-763-4226. An Affirmative Action/Equal Opportunity Employer.

TOXICOLOGIST sought for high-profile national public interest group to evaluate the safety of food additives. Candidates must have a Ph.D. and advocacy experience. Salary commensurate with experience. Send résumé and writing samples to: **Center for Science in the Public Interest, S:TOX, 1875 Connecticut Avenue N.W., #300, Washington, DC 20009.**

POSITIONS OPEN

Quantum Magnetics (QM) develops and commercializes advanced magnetics technologies for inspection, detection, and analysis. We utilize a state-of-the-art, low-cost version of magnetic resonance to create products that are highly effective in the detection of explosives—a critical need within the rapidly growing international security market. Headquartered in San Diego, QM is a wholly owned subsidiary of InVision Technologies.

RESEARCH SCIENTISTS

Quantum Magnetics has three positions open for talented NMR/NQR Research Scientists. Work independently and in teams to research/develop NQR for explosives detection in a variety of systems; Ph.D. required in NMR or NQR-related field. Must have experience in one or more of the following: (a) NMR/NQR instrumentation design, fabrication, and use; (b) development of application-specific pulse sequences; (c) theoretical description and simulation of NMR or NQR phenomena. Please refer to QRPh.D. when applying.

Please send résumé to: **Quantum Magnetics, Inc., 7740 Kenamar Court, San Diego, CA 92121.** FAX: 619-566-9388; e-mail (ascii only): qmhr@qm.com. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. One to work on protein structure modeling and bioinformatics and another on theoretical/computer-based studies of protein stability. The structure modeling work will be mainly to improve a class of immunotoxins that are being developed in the adjacent laboratory as an antitumor agent. Bioinformatics work is to discover new genes using available sequence database. The protein stability study will be theoretical and include the study of hydrophobic effect, electrostatics, and particularly the cavities in protein molecules. Please send curriculum vitae and three reference letters to: **Dr. B. K. Lee, Molecular Modeling Section, Laboratory of Molecular Biology, National Cancer Institute, NIH, Building 37, Room 4B15, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255.** Telephone: 301-496-6580; FAX: 301-402-1344; e-mail: bkl@helix.nih.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for studies regarding the role of signaling pathways and transcription factors mediating effects of insulin and growth factors on gene expression (*JBC* 273:6482, 1998). One individual will focus on quantitative and qualitative analysis of DNA/protein interactions. Another will examine kinase pathways involved in sequence-specific gene regulation. Please send curriculum vitae and names of three references to: **Terry Unterman, M.D., Endocrine Division (M/C 640), University of Illinois at Chicago, 1819 West Polk Street, Chicago, IL 60612.** FAX: 312-455-5877; e-mail: unterman@uic.edu.

POSTDOCTORAL POSITION. NIH-supported, to study regulation of ion transport in gastrointestinal epithelia using patch-clamp and imaging techniques. Experience with either or both of these techniques is preferable. Send curriculum vitae, including a statement of research interests, and names and addresses of three references to: **Dan R. Halm, Ph.D., Wright State University, Department of Physiology and Biophysics, 3640 Colonel Glenn Highway, Dayton, OH 45435.** FAX: 937-775-3769; e-mail: dhalm@wright.edu. Review begins August 14, 1998. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION

Requires strong background in synthetic organic chemistry or peptide chemistry. Molecular modeling and combinatorial synthesis experience preferred. Send letter of application including curriculum vitae and names, addresses, and telephone numbers of three references to:

**Dr. Julian Simon
Molecular Pharmacology Program
Fred Hutchinson Cancer Research Center
1100 Fairview Avenue North
Seattle, WA 98109**

POSTDOCTORAL ASSOCIATE POSITION. Available immediately to work on an American Heart Association-funded project involving studies of the pleckstrin homology domain of the beta-adrenergic receptor kinase (see: *Shaw, Bioessays* 18:35-46, 1996). Previous experience in molecular biological and protein chemical techniques preferred. Send curriculum vitae and three references before August 24, 1998, to: **Dr. Gerry Shaw, Department of Neuroscience and Brain Institute, JHMHC Box J-100244, Gainesville, FL 32610.** E-mail: gshaw@ufl.edu; FAX: 352-392-8347.



Breast Cancer Researcher

Indiana University Cancer Center, IU School of Medicine, is seeking a breast cancer basic researcher for appointment at the assistant, associate, or professor level. The successful applicant will have a Ph.D. degree or equivalent, be qualified for a tenure-track position, and have received extramural research funding. Position includes a generous start-up package including an endowed chair. Research focus should be breast cancer; the applicant will have a primary appointment in a basic science department. Applicants should send CV and description of research and arrange for three letters of recommendation to be forwarded to:

Leonard C. Erickson, Ph.D.
IU Cancer Center
535 Barnhill Drive, #455
Indianapolis, IN 46202.

Indiana University is an AA/EOE.

EUROPEAN OPPORTUNITIES

Technical University of Denmark

Ph.D. Scholarships at the Graduate School in Microelectronics

Applications are invited for Ph.D. scholarships that become vacant in the fall of 1998 at the **Graduate School in Microelectronics**.

The Ph.D. scholarships are open to candidates with an M.Sc. degree (or equivalent) in Electrical Engineering, Computer Engineering, or Computer Science, and some background in microelectronics. The scholarships cover tuition and a salary of approximately DKK 18,000 per month (corresponds to US \$ 2,500 per month) in the 3-year period that is required to complete a Ph.D. study.

The **Graduate School in Microelectronics** is associated with Thomas B. Thriges Center of Microelectronics (<http://www.it.dtu.dk/~jst/cfm/>). This is a research center working with design and fabrication techniques for integrating analog, digital, and (micro)mechanical components within a single "microinstrument" that performs sensing, signal processing, computing, communication, and actuation.

The vacant Ph.D. scholarships are co-sponsored by The Danish Research Academy and a number of Danish companies. The available Ph.D. scholarships involve some form of formal collaboration with these companies.

The **application deadline** is October 1, 1998. Further details can be found at: <http://www.it.dtu.dk/~jst/cfm/gradphd.html>.

The application should include the following documents: a detailed CV, transcript from all universities attended, and 3 letters of reference (sent directly by the reviewers). All documents must be received by October 1, 1998. The final selection is expected to be completed by the end of October.

Center for Microinstruments
Attn: Prof. Jørgen Staunstrup
Department of Information Technology
Building 344
Technical University of Denmark
DK-2800 Lyngby
Denmark

e-mail: jst@it.dtu.dk
tel: (+45) 45 25 37 40
fax: (+45) 45 93 00 74

CONFERENCE



AMERICAN SOCIETY FOR NEUROCHEMISTRY 30th Annual Meeting

Meet Us in New Orleans To Share the Excitement of Neurochemical, Cell, and Molecular Biological Research Aiming to Understand the Nervous System and the Neurobiology of Disease.

Be sure to mark your calendar now:

Call for Abstract Deadline: October 30, 1998

Meeting Date: March 14-17, 1999 New Orleans Sheraton

President: **Scott T. Brady**

President-Elect: **Nicolas G. Bazan**

Past President: **Alan Boulton**

Scientific Program Chair: **Mark P. Mattson**, U. Kentucky

Sponsored by the LSUMC Neuroscience Center of Excellence

Objectives of the Scientific Program:

1) To shed new light on the cellular and molecular mechanisms of communication between cells, and between organelles within neurons and glia. The meeting will provide novel insight into signal transduction pathways that mediate responses to neurotransmitters, trophic factors, cytokines, hormones, etc. Moreover, the emerging area of inter-organellar signaling (i.e., mitochondria, ER, nucleus, secretory vesicles, etc.) will be explored. Signaling pathways in development, normal function, and in neurodegenerative disorders will be considered.

2) To explore emerging molecular, biophysical, and nanotechnological approaches to understanding and manipulating the nervous system (i.e., development of "chip" technologies for rapid screening of patterns and levels of gene expression in neural cells; biophysical approaches to examine the properties of organellar membranes; and application of nanotechnology to the repair of injured brain and spinal cord.)

For Information Contact: Linda Garcia, American Society for Neurochemistry, P.O. Box 691567, Houston, TX 77269; phone: (281) 251-9976, Fax: (281) 251-3798, E-mail: lindahou@aol.com or visit our Website: <http://www.tmc.edu/asn/asn.html>.

EUROPEAN OPPORTUNITIES

cancer
research
campaign



Beatson Institute for Cancer Research, Glasgow

Senior Research Fellowships

Applications for these five year independent positions are invited from molecular/cell biologists with proven track records in independent research relevant to the broad aims of the Institute. The salary attached to the position will be in the MRC grade band 3 range (£18,000 - £36,400), according to experience. The fellowship will also fund one support position (junior postdoctoral or equivalent) with associated running costs. In addition, research fellows will be entitled to compete for further Institute or outside funding. The Beatson Institute is Scotland's principal Institute for cancer research and a major component of the comprehensive and well-resourced experimental and clinical research activities of the Cancer Research Campaign Beatson Laboratories complex situated in the green-field Garscube campus of the University of Glasgow. Details of the Institute's current research activities can be found at our web site (<http://www.beatson.gla.ac.uk/beatson>).

Applications with CV, outline of research proposals and the names of three referees should be sent to Professor P R Harrison, Assistant Director (Research), The Beatson Institute for Cancer Research, Garscube Estate, Switchback Road, Bearsden, Glasgow G61 1BD, Scotland (email: p.r.harrison@beatson.gla.ac.uk).

Fighting cancer on all fronts

POSITIONS OPEN

POSTDOCTORAL FELLOW BLOOD COAGULATION BIOCHEMISTRY

New York Blood Center is the nation's premier independent blood research, collection, and distribution organization. Currently, we have a position available to study the fibrinolytic mechanisms of matrix metalloproteinases. Applicants should hold a Ph.D. or an M.D.-Ph.D. degree by the time the position begins; (one to three years of experience only). Strong training in biochemistry and/or biophysics, and prior experience in blood coagulation biochemistry would be a strong asset. The research will provide the applicant with a unique opportunity to examine clot dissolution events in purified and plasma systems. Competitive salary and benefits package. Please FAX or send your curriculum vitae to: **Human Resources Department—MK, New York Blood Center, 150 Amsterdam Avenue, New York, NY 10023. FAX: 212-721-2752. Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.**

MOLECULAR MECHANISMS OF CANCER METASTASIS

POSTDOCTORAL RESEARCH ASSOCIATE available for NIH-funded studies of the molecular signaling mechanisms that regulate the metastatic properties of cancers. Ph.D. required, with laboratory experience in signal transduction and molecular biology. The campus housing both Loyola University Medical Center and the Hines VA Hospital provides a scientifically stimulating environment in the western suburbs of Chicago. Salary is competitive. Applicants should submit a curriculum vitae, description of prior research experience, and names of four references to: **Dr. M. Rita I. Young, Professor of Pathology, Loyola University, Research Service (151-Z2), Building 1, Room A319, c/o Hines VA Hospital, Hines, IL 60141. Loyola University is an Equal Opportunity/Affirmative Action Employer.**

PROTEIN CRYSTALLOGRAPHY

A **POSTDOCTORAL OR RESEARCH ASSOCIATE** position is available immediately to study the interrelationship between protein structure and function. X-ray crystallography will be utilized to investigate both catalytic and regulatory mechanisms. Projects include analysis of enzyme-substrate, enzyme-inhibitor, as well as mutant enzyme structures. Candidates must have previous protein crystallography experience, and those candidates that want to extend their experience to molecular biology are particularly encouraged to apply. Send curriculum vitae, names and telephone numbers of three references to: **Dr. Evan R. Kantrowitz, Department of Chemistry, Boston College, Chestnut Hill, MA 02167.**

POSTDOCTORAL POSITION available immediately to utilize molecular biology and protein chemistry in studies on the mechanism and specificity of sulfotransferases. Candidates must possess a Ph.D. with experience in site-directed mutagenesis and the efficient expression, purification, and characterization of recombinant enzymes. Send a current curriculum vitae and names, addresses, and telephone numbers of references to: **Dr. Michael W. Duffel, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, University of Iowa, Iowa City, IA 52242. E-mail: michael-duffel@uiowa.edu. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION available September 1998 to study the structure and function of hAT transposable elements in insects, primarily mosquitoes. Experience in molecular biology is essential and experience with insect transformation is highly desirable. Please send curriculum vitae and have three letters of recommendation sent to: **Dr. Peter Atkinson, Department of Entomology, University of California, Riverside, CA 92521. Telephone: 909-787-4782; FAX: 909-787-3086; e-mail: peter.atkinson@ucr.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available immediately to identify and characterize genes involved in breast, ovarian, and prostate cancers. Ph.D., publications, and expertise in molecular biology are required. Send curriculum vitae and names of three references to: **Dr. Graham Casey, Ph.D., Department of Cancer Biology, NN10, The Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-445-6269; e-mail: casey@cesmtp.ccf.org.**

POSITIONS OPEN

POSTDOCTORAL POSITION ADULT ONCOLOGY/HEMATOLOGY Dana-Farber Cancer Institute Open Positions as of July 10, 1998

This person must be highly motivated, enthusiastic, bright, responsible, and organized Postdoctorate to participate in a high-power research program focused in the molecular recognition of antigens and the regulation of gene transcription in immune competent and antigen-tolerant T cells. Project includes basic scientific research in the field of signal transduction using both mammalian and yeast cells. Familiarity with yeast techniques is preferred.

Qualifications: Ph.D. in the field of molecular biology or biochemistry. Familiarity with yeast techniques is preferred.

Hours: full time. Job # 5740.

Responses to:

Vicki Boussiotis
Assistant Professor of Medicine
Dana-Farber Cancer Institute
44 Binney Street
Boston, MA 02115
Telephone: 617-632-4586
FAX: 617-632-5167

POSTDOCTORAL POSITION is available to study the cellular and molecular basis of wound healing in rodents. Particular emphasis is placed upon nitric oxide physiology and the regulation of gene expression by oxygen availability in the wound. Ideal candidate should have experience in molecular biology and cell culture. Knowledge of immunology and macrophage biology important. Strong written/verbal skills essential. No previous postdoctoral experience necessary. Pay scale according to NIH guidelines. Please send a curriculum vitae and the names and telephone numbers of three references to: **Jorge E. Albina, M.D., Department of Surgery, Rhode Island Hospital and Brown University, 593 Eddy Street, Providence, RI 02903. Telephone: 401-444-4296; FAX: 404-444-8052; e-mail: jorge_albina@brown.edu. RIH is a smoke-free environment.**

POSTDOCTORAL FELLOW

Field: glutamate receptors and transporters/neuroprotection. Must be facile with molecular biology procedures and at least one of the following: heterologous gene expression systems, *in situ* hybridization, immunologic methods, ligand binding studies, or electrophysiology. Please send your curriculum vitae and two letters of reference to: **Raymond S. Roginski, M.D., Ph.D., Department of Anesthesia, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 125 Paterson Street, Suite 3100, New Brunswick, NJ 08901-1977. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.**

Applications are invited from recent graduates for a **POSTDOCTORAL POSITION** in a laboratory studying the molecular biology of the tumor suppressor p53. This position will seek to identify the pathway affected by p53 mutations leading to oncogenesis. Individuals with expertise in recombinant DNA technology, particularly DNA sequencing, cDNA technology, and mammalian cell culture systems are especially encouraged to apply. Salary is negotiable. Send complete curriculum vitae and arrange for three letters of reference to be sent directly to: **Sumitra Deb, Ph.D., Professor, Department of Cancer Biology, Comprehensive Cancer Center of Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1082. FAX: 336-716-0255; e-mail: dswood@wfubmc.edu. Affirmative Action/Equal Opportunity Employer.**

Two **NIH POSTDOCTORAL RESEARCH ASSOCIATES** are available immediately to study oxidative stress in Parkinson's disease and other neurodegenerative disorders associated with aging. Specific expertise in coenzyme Q, antioxidant enzymes, antioxidant proteins, Metallothionein, apoptotic pathway, and neuroprotection is required. Send a complete curriculum vitae, a detailed letter describing research accomplishments and future goals, and three letters of recommendation to: **Manuchair Ebadi, Ph.D., Department of Pharmacology, University of Nebraska College of Medicine, 986260 Nebraska Medical Center, Omaha, NE 68198-6260. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION WASHINGTON STATE UNIVERSITY

Two Postdoctoral positions (one Enzymologist, one Plant Molecular Biologist). Enzymologist candidate will be proficient in enzyme mechanisms, whereas Plant Molecular Biologist candidate will be proficient in standard molecular biology and plant transformation techniques. Both will have a degree in molecular biology, biochemistry, chemistry, or related field. Will involve research on phenylpropanoid-coupling mechanisms, and postcoupling modifications. Applicants must have good research, writing, and communication skills, and can work independently. Appointment up to three years; salary commensurate with experience. Applications from July 1998 onwards until suitable person is identified. Cover letter, curriculum vitae, and three letters of recommendation to: **Dr. Norman G. Lewis, Institute of Biological Chemistry, Washington State University, P.O. Box 646340, Pullman, WA 99164-6340. E-mail: lewisn@wsu.edu; Telephone: 509-335-8382; FAX: 509-335-8206. Washington State University is an Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH POSITION

Position available in translational oncology studies assessing the molecular mechanisms and use of antimetabolites in chemosensitization of tumor cells to apoptosis *in vivo* (*Cell Growth Diff.* 8:1189; *Clin. Canc. Res.* 4:773). Candidates should have a Ph.D. or equivalent in molecular or cellular biology. A solid background in oncology is desirable, although all strong candidates will be considered. Preference will be given to candidates with experience and knowledge in animal surgery/xenografts, cell culture techniques, and flow cytometry. Good verbal/written English skills are essential. Interested candidates should submit a curriculum vitae and three letters of reference to: **Dr. Bertrand C. Liang, A212 Medical Alumni Building, University of Vermont College of Medicine, Burlington, VT 05405. FAX: 802-656-2641; e-mail: bliang@zoo.uvm.edu.**

POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study RNA-protein interactions and the regulation of translation. In particular, the translational control of early *Xenopus* development, early mouse development, and neuronal synaptic function is examined. Please confer: *Mol. Cell. Biol.* 17: 6402, 1997; *Mol. Cell. Biol.* 17:6419, 1997; *Mol. Cell. Biol.* 18:685, 1998; or website: <http://www.ummcd.edu/dept/mgm/mgmpl.html> for details. Interested persons with experience in molecular, developmental, or neurobiology should send a complete curriculum vitae and names and addresses of three references to: **Dr. Joel Richter, Department of Molecular Genetics and Microbiology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.**

POSTDOCTORAL RESEARCH POSITIONS IN MICROBIOLOGY

**American Society for Microbiology/
National Center for Infectious Diseases**

Positions are available for Postdoctoral Scientists to conduct novel research with the overall objective of developing practical applications of microbiology, immunology, and epidemiology for diagnosis and prevention of infectious diseases. Associates will perform research in residence at the National Center for Infectious Diseases, which is headquartered at the Centers for Diseases Control and Prevention in Atlanta, Georgia.

Deadline for applications is November 15, 1998. Website: <http://www.asmsa.org/educr/edu23c.htm>; e-mail: fellowships-careersinformation@asmsa.org.

POSTDOCTORAL POSITION JOSLIN DIABETES CENTER HARVARD MEDICAL SCHOOL

Postdoctoral position available to identify factors regulating differentiation of pancreatic precursor cells. Position requires a strong background in molecular biology, including experience in construction of cDNA library and over-expression of protein in COS cells. Additional knowledge of pancreatic development and diabetes would be of great advantage. Send curriculum vitae and contact information of three references to: **Dr. S. Bonner-Weir, Research Division, Joslin Diabetes Center, 1 Joslin Place, Boston, MA 02215. E-mail: bonners@joslab.harvard.edu; FAX: 617-732-2650.**

POSITIONS OPEN

POSTDOCTORAL FELLOWS

Expanding research program seeks two Postdoctoral Fellows; positions are available immediately. A Ph.D. in cellular physiology or molecular biology is needed for an NIH-supported project in reproductive medicine. A second Ph.D. with interest and expertise in immunology and autoimmune disease is needed for a University-funded position. Reporting to the Dean for University Research, each position is approximately a two-year appointment, but may be subject to extension upon receipt of extramural funding. Both positions provide ample flexibility for pursuit of independent research interests. Send curriculum vitae and list of three references to: **Dr. B. Larsen, Dean for University Research, University of Osteopathic Medicine and Health Sciences, 3200 Grand Avenue, Des Moines, IA 50312. UOMHS is an Equal Opportunity Employer.**

The Center for the Study of Emerging and Re-Emerging Pathogens is seeking **POSTDOCTORAL FELLOWS** for biochemical and molecular genetic studies of enterococcal adhesions including collagen and laminin binding proteins. Analyses will involve protein purification, mutagenesis, and virulence testing. The project is a collaboration between **Barbara E. Murray, Magnus Höök, and George M. Weinstock**. To apply, send curriculum vitae and three letters of recommendation to: **Joan Payne, The University of Texas-Houston, Medical School, Microbiology and Molecular Genetics Department, 6431 Fannin, Suite 1.765, Houston, TX 77030-1501.**

The University of Texas Health Science Center at Houston is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION

A Postdoctoral position available immediately to study molecular regulation of NMDA receptors. A strong background in cell culture, molecular biology, signal transduction, and transcriptional regulation is highly desirable. Send a cover letter, curriculum vitae, and names of three references to: **Dr. Maharaj K. Ticku, Department of Pharmacology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7764. FAX: 210-567-4226; e-mail: ticku@uthscsa.edu.** The UTHSCSA is an Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in cellular immunology and molecular virology studies of HIV-1 infection. Research areas include AIDS immunopathogenesis, cytokine biology, and macrophage infection. Experience in immunology and standard virology techniques is a plus. Forward curriculum vitae and references to: **The Human Resources Department, Attn: Dr. Luis J. Montaner, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104-4268. E-mail: montaner@wistar.upenn.edu. Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans.**

A **POSTDOCTORAL POSITION** in X-ray crystallography is available to carry out research on proteins involved in cytoskeleton dynamics. Highly motivated individuals with backgrounds in structural biology or biochemistry are encouraged to apply. Send curriculum vitae and names of three references to: **Dr. Partho Ghosh, Department of Chemistry and Biochemistry, 0314, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093. FAX: 619-534-7042; e-mail: pghosh@ucsd.edu.**

University of Pennsylvania **POSTDOCTORAL POSITION** available immediately to study cell cycle proteins that regulate chromosome segregation. The applicant should have a Ph.D. and experience in biochemistry and molecular biology. Send curriculum vitae, brief statement of research interests, and three letters of reference to: **Dr. Sandra Holloway, Department of Genetics, University of Pennsylvania School of Medicine, 475 CRB, Philadelphia, PA 19104-6145. FAX: 215-573-5892. Affirmative Action/Equal Opportunity Employer.**

Three-year **POSTDOCTORAL RESEARCH** position available immediately at the National Institutes of Health (NIH) in Phoenix, Arizona, to identify and characterize type 2 diabetes susceptibility genes. Experience in molecular biology required. Send curriculum vitae and a summary of relevant experience to: **Dr. Leslie Baier, Clinical Diabetes and Nutrition Section, NIDDK, NIH, 4212 North 16th Street, Phoenix, AZ 85016. FAX: 602-200-5225.**

POSITIONS OPEN

POSTDOCTORAL POSITION

A Postdoctoral position is available to study structure/function of ion channels. The candidate will use molecular biology and protein chemistry techniques including mutagenesis, Western blot, yeast two-hybrid, and coimmunoprecipitation to investigate the protein-protein interaction between fundamental subunits of ATP-regulated potassium channels. This position is part of a NIH-funded ion channel research laboratory using both electrophysiology and molecular biology/protein chemistry approaches. The candidate must have a Ph.D. or equivalent in biochemistry or a related field; experience in molecular biology is preferred; working knowledge on protein-protein interactions is a plus. Send curriculum vitae and the names of three references to: **Dr. Zheng Fan, Department of Physiology and Biophysics, University of Tennessee, 894 Union Avenue, Memphis, TN 38163. E-mail: zfan@physiol.utmem.edu; FAX: 901-448-7126.**

The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

POSTDOCTORAL POSITION

A Postdoctoral Research position is available for structure-function studies of Na⁺/dicarboxylate cotransporters (*J. Biol. Chem.* 270:5779; *Am. J. Physiol.* 270:F642, 273:G267). Preference will be given to candidates with a Ph.D. and experience in molecular biology or protein biochemistry, although experience in transport physiology or electrophysiology is also desirable. Send curriculum vitae and description of research experience to: **Dr. Ana M. Pajor, Department of Physiology and Biophysics, The University of Texas Medical Branch, Galveston, TX 77555-0641. FAX: 409-772-3381; e-mail: pajor@u.arizona.edu (before September 1, 1998), apajor@utmb.edu (after September 1, 1998). UTMB is an Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans.**

POSTDOCTORAL POSITION

Postdoctoral position is available immediately for highly motivated Ph.D. or M.D. with expertise in molecular biology and/or immunology. Projects include (1) gene therapy: retrovirus-mediated genetic modification of bone marrow progenitors for attack on tumor vasculature; (2) regulation of gene expression by the Ras oncogene and identification of novel Ras-regulated genes using advanced technologies. Send curriculum vitae and names of three references to: **Robert G. Fenton, M.D., Ph.D., University of Maryland Greenebaum Cancer Center, Bressler Research Building, Room 7-023, 655 West Baltimore Street, Baltimore, MD 21201. E-mail: rfent001@umaryland.edu; FAX: 410-328-0370. UMAB is an Equal Opportunity Employer.**

IMMUNOLOGIST/MOLECULAR BIOLOGIST

POSTDOCTORAL POSITION available to study the role of MHC Class I and II molecules in nonhuman primates infected with HIV. Ph.D. or M.D. with experience in molecular biology and/or cellular immunology. Send curriculum vitae and description of previous research experience to: **David I. Watkins, University of Wisconsin-Madison, Wisconsin Regional Primate Research Center, 1220 Capitol Court, Madison, WI 53715-1299. Telephone: 608-265-3380; FAX: 608-263-4031. Deadline: August 15, 1998. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.**

EUROPEAN OPPORTUNITIES

POST-GRADUATE BIOBUSINESS. Ein Existenzgründertraining für Biowissenschaftler im Rhein-Neckar-Dreieck. Das Programm Post-Graduate BioBusiness bereitet Naturwissenschaftler/-innen auf eine Existenzgründung im Bereich der Biotechnologie vor. Die Unternehmen BASF AG, Boehringer Mannheim GmbH, Knoll AG, Merck KGaA u.a., und die Akademie für Weiterbildung bieten—drei Monate Theorie—mind. sechs Monate Praxis—Ausbildungsvergütung. Ausbildungsbeginn: Januar 1, 1999. Überzeugen Sie uns durch ein Exposé Ihrer Geschäftsidee. Bewerbungsschluss September 1, 1998. Infos: **Akademie für Weiterbildung an den Universitäten Heidelberg und Mannheim e.V., Dr. Jörg Kraus, Friedrich-Ebert-Anlage 22-24, Heidelberg 69117 Germany. Telephone: 06221-5478-11; FAX: 06221-5478-19; website: <http://www.zuv.uni-heidelberg.de/zsw/>.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available in the Section on Molecular Structure and Function of the National Eye Institute, Bethesda, Maryland. Projects are clustered around an informatics-based approach to the molecular and structural biology of the eye and include expressed sequence tag (EST) and microarray analyses, structure/function prediction, and World Wide Web-based organization of data. This will be carried out in close collaboration with structural biology groups at the University of London with the aim of producing an integrated view of the molecular constituents of the eye. Candidates should have strong backgrounds in molecular biology, molecular genetics, or structural biology with computer skills. *Only U.S. citizens or permanent residents may apply.* Applications should be sent to: **Graeme Wistow, Ph.D., Chief of the Section on Molecular Structure and Function, National Eye Institute, Building 6, Room 331, National Institutes of Health, Bethesda, MD 20892-2740. E-mail attachments to e-mail: graeme@helix.nih.gov.**

NIH is an Equal Opportunity Employer.

COURSES & TRAINING

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website, which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

To learn more, search:
<http://www.training.nih.gov>

SYMPOSIUM

MOLECULAR INTERACTION TECHNOLOGIES 1998; October 19–20; Cathedral Hill Hotel, San Francisco. Organizers: **S. Fields, R. Balint, J. Larrick.** Sponsor: **Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 650-694-1420; FAX: 650-694-7717; e-mail: paimm@netgate.net; website: www.pano.com/paimm.** See *Science* April 10, May 8, June 19, 1998, for speakers.

MARKETPLACE

LABELED DNA

cGMP DNA, Reasonable Prices
synthetic genetics
FAM, TAMRA, ROX, AP, FITC, Rhodamine, biotin, molec. probes dyes, etc.
1-800-562-5544
www.syntheticgenetics.com

Circle No. 37 on Readers' Service Card

 **Science's Literature Library**
www.sciencemag.org
Click on Electronic Marketplace, then click on Literature Library

Human Hepatocytes & Microsomes
Products & Contract Laboratory Services
IN VITRO TECHNOLOGIES
410.455.1242
www.invitrotech.com

Circle No. 20 on Readers' Service Card

MARKETPLACE



**MORE PRODUCTS
ON PREVIOUS PAGE**

CUSTOM HYBRIDOMA DEVELOPMENT

1-800-481-9737

HTI (760) 788-9691 • fax: (760) 788-9694
e-mail: antibodies@htibio.com
HTI Bio-Products, Inc. <http://www.htibio.com>

Circle No. 11 on Readers' Service Card

DNA	PEPTIDES
Call for prices	\$15.00/residue
Gene Synthesis, Site Mutagenesis, Protein Expression as low as \$500	
Sequencing: \$25 per run	
Custom Anti-peptide Antibody (including peptide synthesis) \$850	
GENEMED SYNTHESIS 800.344.5337 Fax: 650.952.9540 http://www.genemedsyn.com	

Circle No. 7 on Readers' Service Card

Smart Move!

Check around, you'll find CBI is the most comprehensive biotech service company in the market today. We provide:

- ▶ Protein Sequencing (N- & C-Terminal)
- ▶ Automated DNA Sequencing
- ▶ DNA/RNA/PNA Synthesis
- ▶ Peptide Synthesis
- ▶ Amino Acid Analysis
- ▶ Calorimetry
- ▶ Mass Spectroscopy

Call CBI for special projects,
pricing: **1-800-735-9224**.

**Commonwealth
Biotechnologies, Inc.**
fax: 804-648-2641 cbi@i2020.net www.cbi-biotech.com

Circle No. 29 on Readers' Service Card

Field Nitrate Testing?

Try New NECI Nitrate Test Kit

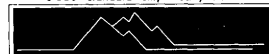
- No Equipment Needed - All Reagents Supplied
- Any Field Sample - Enviro/Eco, Soil, Plant, Food, Beverage
- Water: Ground, Surface, Sea, Estuary, Waste & Run-off
- Accurate and Safe Nitrate Testing using Nitrate Reductase

Call Toll Free 1-888-NITRATE (648-7283) Go To...
The Nitrate Elimination Co., Inc. www.nitrate.com

Circle No. 15 on Readers' Service Card

MARKETPLACE

Custom Primers - 48 hr turnaround: \$0.69/base
5 ODU - Standard Purity - Ready to Use



ransom hill bioscience, inc.

<http://www.ransomhill.com>

no setup - no minimum - no baloney!

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

Circle No. 3 on Readers' Service Card

Custom Peptides & Antibodies

Best Service & Price! Compare and Save!

Alpha Diagnostic (800) 786-5777

Fax (210) 561-9544; info@4adi.com

Web site: <http://www.4adi.com>

Circle No. 9 on Readers' Service Card

CUSTOM DNA SYNTHESIS
PURE & SIMPLE
• Superb Technical Support
• Impeccable Quality
• World's Fastest Service
• Cap Gel & TOF Mass Spec
* Some restrictions apply. Please call for details.
\$1.19* per base \$10 setup 50 nmole scale
MIDLAND
STILL THE UNDISPUTED #1 CUSTOM DNA SYNTHESIS SERVICE
THE MIDLAND CERTIFIED REAGENT COMPANY
Phone 1-800-247-8766 FAX 915-694-2387
email mrcr@oligos.com

Circle No. 5 on Readers' Service Card

*get
sequenced!*

with Genome Systems'
Sequencing Services

As low as \$14/run

- High-throughput Sequencing
- Shotgun Sequencing
- Genomic and cDNA/EST Clone Sequencing
- Custom Sequencing
- Fast & accurate service

GenomeSystemsInc™
Voice: 800. 430. 0030 or 314. 427. 3222
FAX: 314. 427. 3324
email: sequencing@genomesystems.com
World Wide Web: <http://www.genomesystems.com>

Circle No. 10 on Readers' Service Card

Widely Recognized	KlenTaq1	8¢/u Truncated Taq DNA Polymerase
Original & Guaranteed	US Pat # 5,436,149	
Call: Ab Peptides 1-800-383-3362		
Fax: 314-968-8988 abpeps@icon-stl.net		
Withstand 99°C		

Circle No. 2 on Readers' Service Card

MARKETPLACE

* DNA Sequencing
* Synthetic Genes
* Protein Expression/
Purification
* Mutagenesis
* Full R&D Contracts

Easy Web Order

LONG PEPTIDES
50-200 A.A. long peptides.
Purified folded and sequence
verified!

PRIMERS
NO SET UP FEE
50 nmole
Full QC
Purified by G.F.
Guaranteed Quality
Order 400 bases or
more at the same time

PEPTIDES
NO SET UP FEE
AS LOW AS
\$15.00 /residue
Free Mass Spec
10-20 mgs
8-15 residues
Shipped in 5-10 days

PLEASE
CALL FOR
**ANTIPEPTIDE ANTIBODIES
& MORE**

BIO•SYNTHESIS
INCORPORATED
Tel: 1-800-227-0627 Fax: 972-420-0442

Circle No. 28 on Readers' Service Card

Diverse Small Molecules Ready for Screening

In plates, immediately available
50% academic discount, or use our
new easy access plan

ChemBridge Corporation

Website: www.chembridge.com

E-mail: chem@chembridge.com

(800) 964-6143 or (619) 451-7400
FAX: (619) 451-7401

Circle No. 36 on Readers' Service Card

Anti-Asialo GM1 Ab For NK Cell Depletions

Wako BioProducts
Wako Chemicals USA, Inc.
1600 Bellwood Road, Richmond, VA 23237
Telephone: (804) 271-7677 Facsimile: (804) 271-7791
(800) 992-9256 bioproducts@wakousa.com

Circle No. 14 on Readers' Service Card

CUSTOM SHOTGUN DNA LIBRARIES

- BAC, PAC, P1, Cosmid or other large insert clones acceptable
- Random M13 or pUC18 plasmid library provided
- High quality; >95% insert ratio
- 1-2 week turnaround time
- Customer satisfaction guaranteed

DNA sequencing and mini-prep services available

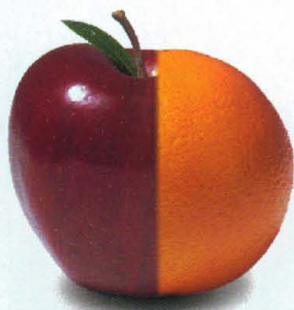
seqwright TEL (713) 528-4363
FAX (713) 528-6232
www.seqwright.com
800-720-4363 seq@blkbox.com

Circle No. 4 on Readers' Service Card

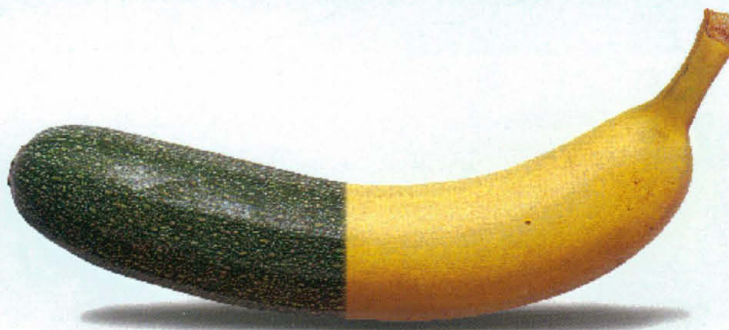
Custom DNA
Purified & Delivered in 48 Hours
\$1.20 per base • Purified
<http://www.resgen.com>
Research Genetics, Inc.
1-800-533-4363

Circle No. 1 on Readers' Service Card

At 60¢ per base, OPERON'S **DNA** makes *anything* POSSIBLE.



THE APPLORANGE



THE ZUCCHANA



GREAT VALUE AND TREMENDOUS SAVINGS FROM THE WORLD'S LEADING SUPPLIER OF DNA.

Operon's highly competitive prices and full line of DNA synthesis scales, options, and modifications present a whole new world of possibilities. Our custom DNA is now available from just 60¢ per base, so you can afford to do more experiments and get more results.

Operon consistently delivers precisely the product you need, on time, with unsur-

Custom DNA Synthesis Prices

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



OPERON

WORLD'S LEADING SUPPLIER
OF SYNTHETIC DNA

passed purity and backed by our unconditional guarantee. Imagine all of this at extremely competitive prices. We ship our custom-made sequences in 24 hours on average, including large orders and orders placed late in the day.

So don't let your budget limit your thinking!

CALL OPERON, THE COMPANY THAT MAKES ANYTHING POSSIBLE.

1-800-688-2248, EXT.100, FOR MORE INFORMATION

©1998 OPERON TECHNOLOGIES, INC. 1000 ATLANTIC AVENUE, SUITE 108, ALAMEDA, CA 94501. PHONE: 510-865-8644. FAX: 510-865-5255. NIHBP 263-00033233.

Circle No. 30 on Readers' Service Card



We call it real-time
quantitative PCR.



You'll call it reproducible,
versatile, and economical.



Perfect your PCR quantitation with real-time PCR detection. Precise, accurate, and reproducible quantitative PCR on a system that's easy to use and afford.

The new GeneAmp® 5700 Sequence Detection System redefines quantitative PCR.

Call it what you will, real-time quantitative PCR provides unsurpassed reproducibility. Now, the GeneAmp 5700 system makes it versatile and economical, too.

Call it versatile. The GeneAmp 5700 system offers multiple chemistries: probe-free SYBR® Green chemistry with optimized reagent kits, or fluorogenic 5' nuclease chemistry with TaqMan® PCR reagent kits. What's more, the system is based on the world's leading thermal cycler, so you can use it for qualitative PCR as well.

Call it economical. In terms of price and performance, the GeneAmp 5700 system is an outstanding value. And it saves time and labor with fast, easy sample preparation and a 96-well format. There is no capillary loading, no microcentrifugation, and no post PCR-processing.

Call it a complete solution. The system includes a built-in thermal cycler, precision optics, CCD camera, optimized reagents, specially designed software, worldwide technical support, and PE Applied Biosystems' PCR performance guarantee.

Call us to see what the GeneAmp 5700 system can do. To request more information, call 800-345-5224. Outside the U.S. and Canada, contact your local PE Applied Biosystems representative or visit our web site at www.perkin-elmer.com/ab. We'll send you a free brochure and a technical paper that explains how the GeneAmp 5700 system is redefining quantitative PCR.

PE Applied Biosystems

Europe: Langen, Germany Tel: 49 (0)6103 708 301 Fax: 49 (0)6103 708 310 Japan: Tokyo, Japan Tel: (047) 380-8500 Fax: (047) 380-8505 Latin America: Miami, Florida Tel: (305) 670-4350 Fax: (305) 670-4349 Australia: Melbourne, Australia Tel: 1 800 033 747 Fax: 61 3 9212-8502
For Research Use Only. Not for use in diagnostic procedures. Certain Perkin-Elmer PCR reagents are developed and manufactured by Roche Molecular Systems, Inc. Branchburg, New Jersey, U.S.A. The PCR process is covered by U.S. patents, issued and pending, owned by Roche Molecular Systems, Inc. and F. Hoffmann-La Roche Ltd. The SYBR Green dye is sold pursuant to a limited license from Molecular Probes, Inc. under U.S. patent No. 5,436,134 and corresponding foreign patents and patent applications.
GeneAmp is a registered trademark of Roche Molecular Systems, Inc. Applied Biosystems, PE, and PE Applied Biosystems are trademarks, and Perkin-Elmer is a registered trademark, of the Perkin-Elmer Corporation. SYBR is a registered trademark of Molecular Probes, Inc. PE Applied Biosystems develops and manufactures its products in accordance with ISO 9000 quality system requirements.



Circle No. 19 on Readers' Service Card