

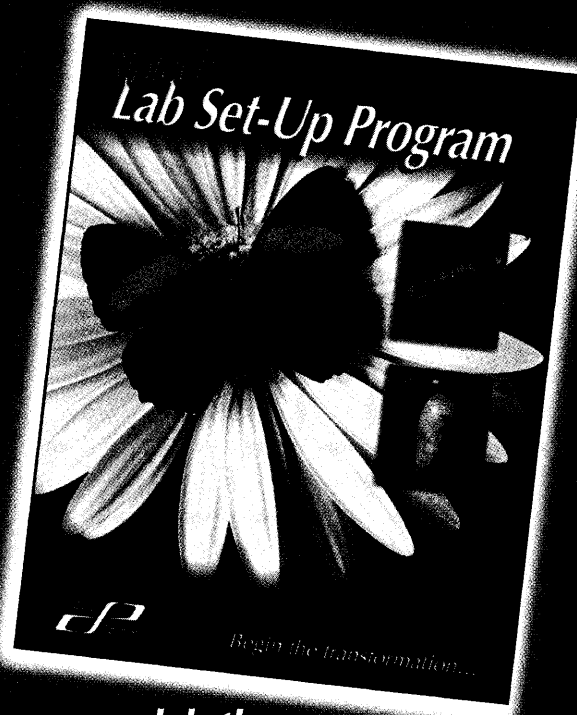
Our Biotech New Lab Set-Up Program includes:

- ▶ FREE products and money-saving offers to stock your lab and stretch your budgetary dollars!
- ▶ A variety of life science products from over 30 leading manufacturers in the industry!
- ▶ Complete specifications and catalog numbers on all products and special offers so you can easily order the equipment you need!
- ▶ Time-saving benefits—we contact the suppliers and process the paperwork on all FREE products!
- ▶ Technical expertise from our knowledgeable Application Specialists who can answer even your most challenging technical question!

800-323-4340 ext.5977
ColeParmer.com



*If you have recently set-up a new lab then
 Cole-Parmer's Lab Set-Up Program is for you!*



Circle No. 16 on Readers' Service Card

Seventeenth Annual Meeting on Oncogenes: Cancer Cell Signal Transduction

June 20-23, 2001
 Hood College, Frederick, MD

Organizing Committee:

Nicholas Dyson, *MGH Cancer Center*
 Morag Park, *McGill University*
 George Prendergast, *DuPont Pharmaceuticals*
 Lu-Hai Wang, *Mt. Sinai School of Medicine*

For further information and *ONLINE* registration and abstract submittal, please visit our website at:

<http://www.facsi.org>

or contact: Margaret L. Fanning, FACS
 P.O. Box 249
 Libertytown, MD 21762
 Phone/Fax: 301-898-9266
 Email: margaret@facsi.org

Circle No. 53 on Readers' Service Card

THE MCKNIGHT ENDOWMENT FUND
 FOR NEUROSCIENCE

MCKNIGHT MEMORY AND BRAIN DISORDERS AWARD

The McKnight Endowment Fund for Neuroscience supports innovative research designed to bring science closer to the day when diseases of the brain and behavior can be accurately diagnosed, prevented, and treated. To that end, the McKnight Memory and Brain Disorders Award, established in 2000, assists scientists working to apply the knowledge achieved through basic research to human brain injury or disease. Up to six awards are made annually, each providing \$100,000 per year for three years.

BACKGROUND

The Endowment Fund, an independent charitable organization established by The McKnight Foundation, carries out one of the intentions of founder William L. McKnight (1887-1979). His personal interest in memory and its diseases led him to set aside part of his legacy to bring hope to those suffering from brain injury or disease and cognitive impairment.

Over the last decade, basic research has generated a wealth of knowledge about the brain and nervous system. Treatments and cures are foreseeable for many neurological and psychiatric illnesses, including Alzheimer's disease, other memory impairments, spinal cord injury, stroke, drug addiction, depression, schizophrenia, and other mood and behavioral disorders. The Endowment Fund established the Memory and Brain Disorders Award to help translate laboratory discoveries about the brain and behavior into therapies and cures to improve human health. Thus, proposals are invited that will facilitate the link between basic and clinical neuroscience.

ELIGIBILITY

Investigators who are conducting research at institutions within the United States are invited to apply. Applicants must have independent positions. The award does not support graduate or postdoctoral research. Applicants may not be employees of the Howard Hughes Medical Institute or scientists within the intramural program of the National Institutes of Health. Funds may be used toward a variety of research activities, but not the recipient's salary. Collaborative and cross-disciplinary applications are invited.

SELECTION PROCESS

To apply, submit a two-page letter of intent, including a brief statement describing the goals of the project for which support is sought and how an award would accelerate the work. Applicants are encouraged to emphasize new directions for their laboratory that will extend ongoing work in promising ways. **The letter of intent should clearly describe how the proposed research will uncover mechanisms of brain injury or disease and how it will contribute to diagnosis, prevention, treatment, or cure.**

The deadline is **May 10, 2001**. Letters should not exceed two pages. Include the mailing and email addresses of the principal investigators and a title for the project.

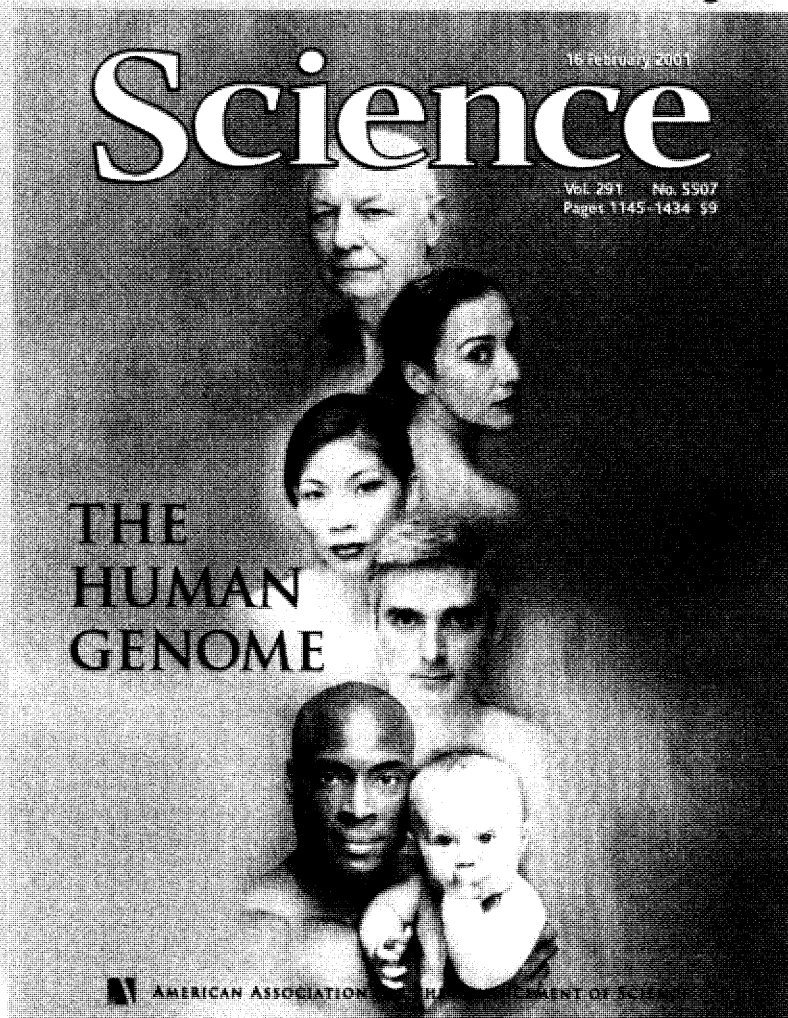
The selection committee will invite a small number of applicants to submit more detailed proposals. Funding will begin on February 1, 2002. Committee members are: Larry Squire, Chair; Samuel Barondes; Fred Gage; Charles Gilbert; Jeremy Nathans; Eric Nestler; and Carla Shatz.

Please send letters of intent to the following address:

McKnight Memory and Brain Disorders Award
 The McKnight Endowment Fund for Neuroscience
 600 TCF Tower • 121 South Eighth Street
 Minneapolis, Minnesota 55402

Circle No. 6 on Readers' Service Card

You're looking at a part of science history.



Read about the human genome — www.sciencemag.org

In the 16 February issue, *Science* published for the first time the entire sequence of the human genome. The research findings contained in this issue mark a historic scientific event that will have incredible impact on our future. The data may be mined to finally develop cures for cancer, AIDS, and other deadly diseases. Or it may offer clues to solve other biological mysteries.

One thing is certain, the research contained in this issue of *Science* marks the true beginning of the genomics revolution. Discover the future every week in *Science*.

Science
Discover the Future

NEW PRODUCTS

SoftWIRE SoftWIRE Technology, LLC

Middleboro, MA
\$495
508-946-9500
www.softwiretechnology.com

ICON-BASED PROGRAMMING

SoftWIRE version 2.0 is a graphical programming tool that uses and simplifies software design with Microsoft's Visual Basic. It provides an environment that focuses on overall software structure rather than computer language syntax as a means of building programs. Thus,

the logic flowchart of a project forms the basis of a programming project. The advantage of this format is that it permits researchers to write computer code with minimal formal training. Laboratory programming projects within easy reach of SoftWIRE users include instrument interfacing, data collection and manipulation, automatic control of spreadsheets and databases, laboratory quality control projects, and utilities to provide functions missing from a large application.

Because SoftWIRE requires Microsoft Visual Basic version 6 (not provided) for operation, the latter must be installed first. A limited, beginner version of Visual Basic, called "Working Model 6.0" can be obtained for \$49 at SoftWIRE's Web site.

SoftWIRE's design window gives programmers a place to draw flowcharts of programs using icon-based menu items. The icons are ActiveX controls and represent routines that perform specific functions. SoftWIRE provides 135 ActiveX controls for common functions. Of particular interest to researchers would be graphic user interfaces, network communications, electronic instrument controllers, serial port controls, Excel spreadsheet and Access database controls, simple system function calls, data acquisition operations on analog/digital boards, and e-mail functions.

Programmers can use SoftWIRE to create simple molecular biology sequence analysis software. Program routines are readily accessible for reading a text file of data together with accession entries and for downloading of the appropriate GenBank file from an Internet source. Functions analyzing character strings, such as DNA sequences, require custom Visual Basic code, but once written these user-defined controls can be easily recycled in related programming projects due to SoftWIRE's modular design.

SoftWIRE can be downloaded and evaluated with all features enabled for 60 days, after which a purchase code is required. Provision is made to allow transfer of the software from one machine to another using a license transfer utility.

Programs written with SoftWIRE can be compiled to executable files and may be distributed royalty-free. SoftWIRE would be a smart investment for users of Visual Basic who would prefer to accomplish a task on the computer quickly, rather than debug code. Other graphical-programming products exist, but none are as cost-effective.

—William Seffens

Clark Atlanta University, Atlanta, GA 30314, USA. E-mail: wseffens@cau.edu

Zymark

For more information call
508-435-9500 or
circle 139
on the Reader Service Card
www.zymark.com

MICROPLATE HANDLER

The Twister II Advanced Capabilities Microplate Handler adds more conveniences and functions to an already successful system. The system now features greater capacity, faster transport, and the ability to access the x-y index positions of almost any liquid handling

deck. This low-cost microplate handler can provide a time-saving alternative to stackers and a money-saving alternative to larger, more complex integrated systems. A telescoping arm and rotating wrist joint make the system compatible with virtually all microplate instruments. The system's compact footprint and removable stacks make it possible to quickly and easily expand or reduce capacity without taking up more space than necessary.

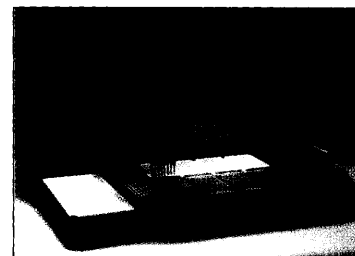
Thermo Orion

For more information call
800-225-1480 or
circle 140
on the Reader Service Card
www.thermoorion.com

LIQUID HANDLING AUTOMATION SYSTEMS

An affordable line of robotic liquid handling systems can automate a myriad of liquid handling and pipetting tasks. From automating microplate applications used in drug discovery, genomics, and pro-

teomics to introducing samples into analytical instrumentation, the line offers an instrument suited to each task. The systems are modular, so they can be configured to meet a variety of needs. Models AS2000 and AS2500 can be configured with up to eight fixed-needle probes. They can also be configured as single-channel disposable pipette tip systems. Model AS4000 is an eight-channel disposable pipette tip system.



Trevingen

For more information call
800-873-8443 or
circle 141
on the Reader Service Card
www.trevingen.com

DNA GEL STAINING PRODUCT

InstaStain EtBr is a new way to stain DNA gels with ethidium bromide that answers the growing concern about the containment of ethidium bromide as biohazardous waste. It comes in sheet form, so a precise amount of the dye can be delivered directly to your DNA gel, without the need to dissolve ethidium bromide in large volumes of gel or running buffer. It stains quickly—the microwave protocol permits staining in 5 s.

Nucleotech

For more information call
888-869-4080 or
circle 142
on the Reader Service Card
www.nucleotech.com

CHEMILUMINESCENCE IMAGING

The NucleoVision 920 is a complete chemiluminescence imaging system that supports applications involving chemiluminescence, fluorescence, and visible light imaging. The workstation can be used for documentation and analysis of blots, gels, autoradiographs, dot blots, and enzyme-linked immunosorbent assays. Real-time detection and quantification is possible without using expensive autoradiography techniques; the charge-coupled device (CCD) camera's long integration capabilities permit sensitive detection. The versatile system supports images from CCD cameras, TWAIN compatible scanners, and phosphor imagers. The GelExpert Imaging software suite provides simple, integrated features for image preprocessing, annotation, enhancement, analysis, archiving, and publication tools. Analysis tools include molecular weight calculation,

CONTINUED ON PAGE 1810

one-dimensional automated multi-lane densitometry, dot/slot blot analysis, free object quantification, two-dimensional spot densitometry, and dynamic image capture.

ENPAC Corp

For more information call
800-993-6722 or
circle 143
on the Reader Service Card
www.enpac.com

SPILL PROTECTION TRAY

The Poly-Labtray virtually eliminates unrecoverable spills and overflows of liquid and free-flowing powder chemicals. The grated surface allows spilled chemicals to flow easily to the unit's sump tray where they remain safely

beneath the work area until controlled clean-up is possible. Poly-Labtray's large, grated surface holds up to four one-gallon bottles with a load-bearing capacity of 40 pounds. This surface is removable for easy clean-up. The sump tray offers up to 2.5-gallon sump capacity and features a molded corner spout that facilitates the recovery or disposal of spills. With dimensions of 25 inches by 22 inches by 3 inches, the low-profile tray is designed for use on the laboratory bench. The 100% polyethylene construction means no metal parts to rust or corrode.

Onset Computer

For more information call
508-759-9500 or
circle 144
on the Reader Service Card
www.onsetcomp.com

OUTDOOR FOUR-CHANNEL DATA LOGGER

The rugged Hobo data logger is completely weatherproof. Its four input channels accept plug-in temperature and alternating-current sensors or signals from devices with 0 to 2.5 V or 4

to 20 mA outputs. These self-contained loggers include a user-replaceable battery that lasts one year. Up to 32,520 time-stamped measurements can be stored in nonvolatile memory that saves data even if the battery fails. The data can be offloaded to a personal computer. The optional Hobo Shuttle can be used to offload the data and restart the loggers, and later upload the data to a computer.



Invitrogen

For more information call
800-955-6288 or
circle 145
on the Reader Service Card
www.invitrogen.com

TRANSPOSON PRIMER INSERTION KIT

The GeneJumper Kit makes use of transposon technology to prepare DNA templates for sequencing. Instead of subcloning DNA fragments into vectors with sequencing primer binding sites,

GeneJumper inserts primer sites randomly into target DNA. The transformation of transposed plasmids generates thousands of sequencing templates for complete and overlapping coverage. There's no need to synthesize custom primers as in conventional methods.

Vector Laboratories

For more information call
650-697-3600 or
circle 146
on the Reader Service Card
www.vectorlabs.com

STAINING AGENT

Hematoxylin QS is a "quick stain" form of hematoxylin that provides crisp blue-violet nuclear staining in less than 45 s. This new counterstain is a modified form of Mayer's hematoxylin that requires no "blueing" step, contains no mercury, and

does not obscure antigen-specific chromogen deposition. It comes ready-to-use without filtration and is compatible with most commonly used peroxidase and alkaline phosphatase substrates, and can be used with manual or automated staining procedures.

Millipore

For more information call
800-MILLIPORE or
circle 147
on the Reader Service Card
www.millipore.com

ULTRA-FILTRATION PLATES

Microcon 96 assemblies are for collection of either filtrate or retentate. The assemblies, offered in two variations, feature 96 preloaded Microcon YM filter units for rapid centrifugation of 100 μ l to 300 μ l volumes of protein or nucleic acid samples, allowing users to concentrate and purify up to 96 aqueous samples simultaneously. The design of this new holder and individual filter unit array results in highly reliable filtrate transfer into the 96-well plate, making it suitable for protein removal from serum or plasma samples prior to protein-binding assays. The assemblies are also suitable for general concentration and purification of protein or nucleic acid samples.

Amersham Pharmacia Biotech

For more information call
+44 20 7255 1100 or
circle 148
on the Reader Service Card
www.apbiotech.com

VERTICAL ELECTROPHORESIS UNIT

The SE 600 Ruby is an ergonomically designed, easy-to-handle version of the Hoefer standard vertical slab electrophoresis unit. Suitable for sodium dodecyl sulfate gel and second-dimension separation of two-dimensional electrophoresis, the unit is designed to be robust and durable. It can be used to run single or multiple gels simultaneously by using two gels in the basic unit or four gels using accessory divider plates. The unit maintains temperatures between 1°C and 48°C, and the built-in heat exchanger allows fast runs with no sacrifice in quality of band separation.

Stratagene

For more information call
800-894-1304 or
circle 149
on the Reader Service Card
www.stratagene.com

MURINE TISSUE ARRAYS

The Complete View tissue array allows the user to localize expression of a protein or gene of interest to specific cell types within tissues in a high-throughput format. The information generated by localizing expression to cell types is more specific than information from Northern blot analysis. In addition, the single-slide format dramatically reduces the time and reagents required for traditional whole animal surveys. Users can screen numerous tissues for protein or gene expression in a single experiment.

Eppendorf

For more information call
+49 40-5 38 01-0 or
circle 150
on the Reader Service Card
www.eppendorf.com

LITERATURE

Products and Applications for the Laboratory 2001 is a 220-page compendium that contains, in addition to the classic tools for liquid handling, sample preparation, and separation techniques, more than 90 pages of products and applications for the molecular technologies sector. This section focuses on nucleic acid isolation, cell technology, molecular biology reagents, polymerase chain reaction systems, and the quantification of DNA and RNA. In addition to product information, it contains in-depth analyses of application-related subjects and an appendix with practical tips for DNA handling, conversion factors, abbreviations, and units of measurement.

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

Classified Advertising

UNITED STATES

Display Classified Advertising

Bren Peters
Tel: 202-326-6541
Kathleen Clark
Tel: 202-326-6555
Jill Steinberg (Northeast Sales)
Tel: 212-496-1264
Kristine von Zedlitz (West Coast Sales)
Tel: 415-956-2531
Fax: 202-289-6742
E-mail: science_displayads@aaas.org

Line Classified Advertising

Jody Fenty
Tel: 202-326-6722
Christina Geiger
Tel: 202-326-6532
Fax: 202-289-1451
E-mail: science_classifieds@aaas.org

Online Classified Advertising

Beth Dwyer
Tel: 202-326-6534
Fax: 202-289-6742
E-mail: bdwyer@aaas.org
www.sciencecareers.org

Ad Materials: Send to: *Science* Classified Advertising, 1200 New York Avenue, NW, Room 911, Washington, DC 20005

EUROPE

Display, Line, and Online Classified Advertising

Deborah Cummings
Tel: +44 (0) 1223 326 500
Fax: +44 (0) 1223 326 532
E-mail: european_ads@science-int.co.uk

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

To obtain information on deadlines, editorial features, and bonus distribution schedules, call our sales office or visit *Science* Careers at www.sciencecareers.org and click on "To Advertise." Call to find out how to link to thousands of additional job seekers online with *Science* Careers. All advertising is subject to publisher's approval.

Line ads are not agency commissionable. Ads submitted should not include any bold, italicized, or abbreviated words. *Science* will edit and typeset ads according to *Science* style requirements. *Science* cannot provide proofs of typeset line ads. *Science* will provide an estimated cost of line ads at time of placement. This is an approximate cost only. Please provide contact name, telephone, billing information, and purchase order numbers with your order.

To Subscribe to *Science* call:
202-326-6417 or 1-800-731-4939

POSITIONS OPEN

ASSISTANT PROFESSOR FISHERIES BIOLOGY Department of Biology Ball State University Muncie, Indiana

Contract position available May 1, 2001. Responsibilities: teaching introductory biology lectures and laboratories and teaching assistance with ichthyology, limnology, and fisheries management courses; managing a funded research project on the Wabash River, Indiana, fisheries, including the field collections, data analysis, and report preparation; providing service to the academic community. The person chosen should have a commitment to excellence in teaching and competency in current approaches in fisheries biology. Minimum qualifications: earned Doctorate in a biological science by May 1, 2001, with emphasis in fisheries; effective written and oral communication skills. Preferred qualifications: demonstrated teaching ability; publications and/or evidence of other scholarly activity, including knowledge of community analysis techniques that are used to develop the Index of Biotic Integrity (IBI) for large river systems. Send letter of application, curriculum vitae, documentation of scholarly activity and teaching ability, copies of transcripts, and three letters of reference to: **Chair, Fisheries Search and Selection Committee, Department of Biology, Ball State University, Muncie, IN 47306. Website: www.bsu.edu.** Review of applications will begin March 1, 2001, and will continue until the position is filled. *Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.*

TENURE-TRACK FACULTY POSITION Department of Physiology and Cell Biology The Ohio State University College of Medicine and Public Health

The Department of Physiology and Cell Biology is soliciting applications for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We are seeking individuals with a strong research background in cardiac excitation-contraction coupling as studied with patch clamp techniques, calcium imaging by confocal microscopy, and other state-of-the-art approaches. Basic studies of ion channels and other components of EC coupling in cardiomyocytes, transfected oocytes, or model cell lines will be encouraged. This individual may benefit from collaborative research with members of the Department of Physiology and Cell Biology and the Heart and Lung Research Institute to elucidate the basis for altered EC coupling in transgenic, spontaneous, and experimentally induced heart failure models currently under investigation. A highly competitive salary and start-up funds are available for this position. Applications will be accepted until June 1, 2001. Send curriculum vitae, a brief description of research interests, and names of three references to: **Muthu Periasamy, Chair, Department of Physiology and Cell Biology, 304 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

RESEARCH ASSOCIATE

The Department of Cardiothoracic Surgery at Thomas Jefferson University invites applications for a Ph.D. interested in the study of vascular biology. The candidate is expected to plan and conduct research studies on the etiology, pathophysiology, and treatment interventions of vascular disease. Experience with Western blotting, Northern blots, RT-PCR, immunohistochemistry, zymography, and cell and tissue culture techniques desirable. Interested individuals should submit a letter expressing interest and curriculum vitae to: **John D. Mannion, M.D., Thomas Jefferson University, 1025 Walnut Street, 605 College Building, Department of Surgery, Philadelphia, PA 19107. Telephone: 215-955-6925; e-mail: john.mannion@mail.tju.edu.** *Equal Opportunity Employer.*

POSITIONS OPEN

HUMAN GENETICS PROGRAM DIRECTOR The University of Vermont College of Medicine

The University of Vermont College of Medicine is seeking an outstanding, nationally recognized Investigator at the **ASSOCIATE** to **FULL PROFESSOR** level to direct a new interdepartmental Program in Human Genetics. The Director will be expected to recruit four to six additional faculty into the Program and to foster and support development of world-class interdisciplinary research. This leader will have the opportunity to identify and pursue research areas in the new Program that capitalize on institutional strengths as well as to expand into new or undeveloped areas. The University of Vermont College of Medicine supports a wide range of basic and clinical research activities with approximately \$50 million in grant-funded research per year. Currently, the College has well-established and funded interdepartmental research programs in neuroscience, cardiovascular disease, environmental pathology, cell signaling, and structural biology as well as an NCI-designated comprehensive cancer center, an NCCR-supported general clinical research center, and the Markey Center for Microbiology and Molecular Genetics. The College has established state-of-the-art core facilities in cell imaging, DNA analysis, transgenic animals, molecular modeling, and other areas; clinical genetics services are provided through the Vermont Regional Genetics Center and core laboratories for clinical cytogenetics and molecular diagnostics.

Candidates must have relevant clinical training and experience (M.D., M.D./Ph.D., or clinical equivalent) and must demonstrate a strong record of productivity and peer-reviewed funding in any area of human genetics research. Candidates must also be experienced mentors with an active research program. Funding to support recruitment and program development as well as dedicated laboratory and office space in the new UVM Health Sciences Research Facility will be provided. Applications will be accepted until the position is filled; however, we strongly encourage the submission of materials by May 1, 2001. Please send inquiries, letters of nomination, or applications including a letter of introduction and curriculum vitae to: **David W. Yandell, Sc.D., Chair, Human Genetics Search Committee, UVM College of Medicine, E-109 Given Building, Burlington, VT 05405. E-mail: David.Yandell@UVM.edu.**

Applications are encouraged from women and individuals of diverse racial, ethnic, and cultural backgrounds. An Equal Opportunity/Affirmative Action Employer.

BIOLOGY. The Biology Department at Westminster College invites applications for a full-time, one-year position starting in fall 2001 (a tenure-track search will be initiated in fall 2001). Teaching responsibilities include recombinant DNA, molecular genetics, and foundations of biology. Each course includes three hours per week of lecture and a three-hour laboratory. Candidates must have at least an M.S. degree; Ph.D. preferred. Must have expertise in a wide array of molecular (nucleic acid and protein) techniques and be committed to excellent teaching in a liberal arts environment.

Westminster College is a coeducational, liberal arts institution with historical ties to the Presbyterian Church. The College enrolls about 1,400 full-time undergraduate students and employs about 100 full-time faculty. Westminster College is located in a beautiful rural setting in close proximity to both Pittsburgh, Pennsylvania, and Cleveland, Ohio. The Biology Department is housed in a modern science building with excellent teaching, research, and computing facilities.

To apply, send a letter indicating teaching experience, unofficial academic transcripts, and curriculum vitae. Arrange to have three letters of recommendation sent separately. Also include a statement of teaching philosophy addressing ability to teach lecture and laboratories in the courses listed above. All information should be received by March 26, 2001. Send materials to: **Dr. Ann. E. Throckmorton, Department of Biology, Westminster College, New Wilmington, PA 16172.** *Equal Opportunity Employer.*

We're driven by
discovery.



What drives you?

Innovate with the scientific vanguard. Join the innovative team at Schering-Plough Research Institute. With such breakthrough pharmaceuticals as CLARITIN® and INTRON® A, we continue to discover revolutionary medications that extend and enhance the lives of millions. We're also experts in developing successful careers. Working with internationally known scientists and researchers, our collaborative, entrepreneurial environment allows your ideas to grow and be realized. You'll also experience more responsibility and autonomy right from the outset. Give your career the right treatment in one of the following exceptional opportunities at our **Kenilworth, NJ** location:

Pharmaceutics/Chemistry Lipid Postdoctorate

The successful candidate will be examining the fundamentals of the interactions of various excipients with viral and drug particulate systems and be involved with the development of new analytical techniques to characterize these systems.

In this postdoctoral position, you must have a PhD in Pharmaceutics, Chemistry or Chemical Engineering or similar background. The candidate should have research experience in interfacial characterization. Experience with lipid, liposomal, and/or gene therapy systems are preferred. Excellent written and oral communication skills as well as the ability to work with others in a highly collaborative environment are essential. **Job Code: PAD/SCJ/SRI/225HS**

Drug Safety & Metabolism Research BS/MS ADME Research Associate

In this position, you will be responsible for assisting in the timely progression of pre-clinical AME and ADME studies and monitoring CRO studies that are integral parts of U.S. and worldwide regulatory submissions. Activities also include assisting in dosing, collection and analysis of samples (radiolabelled and non-radiolabelled), assisting in the writing of study protocols, SOP's, and reports for pre-clinical studies as part of ongoing drug disposition laboratory activities within Drug Metabolism.

A BS or MS in a life sciences discipline and 4-7 years (2-4 with MS degree) of relevant research experience in the areas of drug metabolism, toxicology, or other *in vivo* related sciences are required. Experience dealing with or working in a CRO is a plus. **Job Code: PAD/SCJ/SRI/628HS**

BS/MS Research Associate (Whole-Body Autoradiography)

In this position, you will be responsible for assisting in the timely progression of whole-body autoradiography (WBAR) and microscopic autoradiography studies, including preparation of protocols, preparation of dosage formulations, *in vivo* dosing (radiolabelled and non-radiolabelled), sample collection, analysis of samples and preparation of draft reports for timely reviews. You will also be responsible for generating new SOP's, revising existing procedures as necessary and report writing duties for studies conducted as part of ongoing drug disposition lab activities within Drug Metabolism and Pharmacokinetics and the WBAR group.

A BS or MS in a life sciences discipline and 4-7 years (2-4 with MS degree) of relevant research experience in the areas of drug distribution, histology, or *in vivo* related sciences are required. Prior experience in whole-body autoradiography (WBAR) is desirable. **Job Code: PAD/SCJ/SRI/749HS**

We offer an excellent compensation package including competitive salary, profit sharing, 401(k) plan, and a cash incentive bonus program. Comprehensive benefits include: group insurance and retirement programs, flexible work arrangements, education assistance, and health and wellness programs. For more information and to apply online, visit us at www.whatdrivesyou.com or mail your resume, referencing job code, to: Schering-Plough c/o Resume Processing, P.O. Box 549248, Suite 187, Waltham, MA 02454-0248. *By responding to this ad you may be considered for other potential opportunities throughout the Schering-Plough organization. If a potential match exists, you will be notified.* An equal opportunity employer.



Schering-Plough
Research Institute



**International Council
for Science**

ICSU Deputy Executive Director

The International Council for Science (ICSU) is a non-governmental organisation with a membership of 26 Scientific Unions and 98 National Scientific Members dedicated to the promotion of international, interdisciplinary scientific activities. ICSU's Secretariat of 8 people is located in Paris.

As part of the ICSU reform process and the strengthening of its ongoing programmes and new scientific initiatives, the ICSU Executive Board has created a new position entitled: **Deputy Executive Director (DED)**. This senior position will provide significantly enhanced scientific support within the ICSU Secretariat.

The Deputy Executive Director will:

1. Work directly with the Executive Director to ensure the overall management of the ICSU Secretariat and the identification, development and implementation of ICSU's priority interdisciplinary scientific programmes and activities;
2. Represent ICSU at relevant Conferences, meetings of ICSU Members, Programmes and Committees, as well as with ICSU partners beyond the present ICSU family;
3. Have management responsibility for the Science Programmes Sector and the Communications and Outreach Sector.

ICSU is seeking candidates with:

- An advanced scientific degree (preferably Doctorate);
- Extensive professional experience in the planning and organisation of scientific programmes and activities;
- Demonstrated office management skills and experience, including budget preparation, fund raising, staff relations, etc.;
- Familiarity with relevant inter- and non-governmental organisations;
- Proven high-level liaison and representation experience and public speaking skills;
- Experience in working within a complex international, interdisciplinary, and multicultural environment;
- Excellent knowledge of English and good knowledge of French.

Deadline for applications is 31 March 2001, with commencement of duty as soon as possible thereafter. Letters of application, with a C.V. and names of three referees should be sent to the ICSU Secretariat: c/o Dr. Larry R. Kohler, Executive Director, ICSU Secretariat, 51 Boulevard de Montmorency, 75016 PARIS, France; e-mail: larry@icsu.org; Tel: 33-145250329, Fax: 33-142889431.

"A sailor doesn't ask for tail wind, he learns how to sail"

You'll find a creative and challenging environment

We're looking for toxicological/experimental pathologists [Södertälje]

The Pathology Department at Safety Assessment, AstraZeneca R&D Södertälje, Sweden, is providing pathology support in drug development from early discovery to product support, and is dedicated to fostering a progressive environment that is open to new ideas. We are applying state-of-the-art techniques in an integrated approach, using molecular pathology techniques as well as more traditional diagnostic tools for pathological evaluation of preclinical studies on both conventional laboratory animal models and alternative models, such as transgenic animals. AstraZeneca invites enthusiastic, creative individuals for the following full-time positions as toxicological/experimental pathologists to join our Swedish pathology team. The persons appointed are expected to show individual initiative while working in a close knit team of pathologists, molecular toxicologists, toxicologists, project and scientific leaders, and associated support staff in Sweden, and maintaining close contacts with colleagues in the UK and US. Thus, excellent interpersonal and intercultural skills, communication abilities and experience with multidisciplinary interactions in a team based setting are required.

Toxicological pathologist:

Qualifications for this position include a DVM or MD with in-depth knowledge and expertise in toxicological pathology with well developed diagnostic skills in necropsy and histopathology in laboratory animals, as well experience in outsourcing, reporting and problem solving of investigative and regulatory

pathology results. A broad understanding of the preclinical procedures involved in pharmaceutical research and development, and interactions with worldwide regulatory authorities are also desirable.

Experimental pathologist:

Applicants for this position are anticipated to have a DVM or MD and preferably a Ph.D., or be an experimental pathologist with a Ph.D. To improve the capability in experimental pathology in order to support discovery and investigative efforts in pharmaceutical research and development, the holder of this position will be expected to apply advanced techniques of molecular pathology, immunohistochemistry and quantitative methods in conjunction with traditional diagnostic investigations. Thus, incumbent should have a strong background and expertise in molecular and cellular pathology techniques.

For further information, please contact
ronny.fransson-steen@astrazeneca.com.

Welcome with your application marked "Pathologist" no later than March 20, to: hannes.vedin@astrazeneca.com or to:
AstraZeneca R&D, Hannes Vedin, B:213, Human Resources,
151 85 Södertälje, Sweden.

Further information regarding these and other
available jobs can be found on our website.
You can also e-mail your application:

www.astrazeneca.se

LEADING INNOVATION IN WORLD HEALTHCARE

AstraZeneca 

AstraZeneca is one of the world's leading pharmaceutical companies with approximately 50,000 employees. In Sweden, about 10,000 people work for the company in pharmaceutical research, production and marketing.

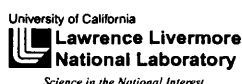
Think BIG.

Sabbatical Opportunity Lawrence Livermore National Laboratory

Lawrence Livermore National Laboratory (LLNL) has established the Lawrence Livermore Sabbatical Program to attract faculty from leading universities around the world. This prestigious opportunity provides a professor the resources and freedom to conduct cutting edge research in fields of their choice. Candidates are invited to conduct original research on one or more aspects of science relevant to the mission and goals of LLNL, which include: Physics, Computational Mathematics, Computer Science, Chemistry, Materials Science, Engineering, Environmental Science, Atmospheric Science, Geological Sciences, Energy, Laser Science and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL and will have access to the Laboratory's extensive computing facilities, specialized laboratory facilities and field equipment. A senior scientist will be assigned as a host for each participating professor. Full management and administrative support will also be provided.

The timing and duration of the sabbatical are flexible and compensation is available for any unfunded portion of a candidate's leave. Housing, relocation and related assistance is also available. Faculty are encouraged to include graduate students in their sabbatical program.

For eligibility requirements, application and more detailed information refer to our web page at <http://www.llnl.gov/urp/sabbatical.html>. To be considered, reference **Dept. AJSC321UR**. First applications are due May 1, 2001, but applications will be reviewed quarterly until available resources are committed. Lawrence Livermore National Laboratory is operated by the University of California for the U.S. Department of Energy. We are an equal opportunity employer with a commitment to workforce diversity.



For information about specific
employment opportunities,
visit our web site at:



www.llnl.gov/jobs

Faculty Positions Department of Pharmacology The University of Michigan

The Department of Pharmacology is seeking applications for two tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants should have a Ph.D. and/or M.D., significant postdoctoral experience, and a record of excellent research accomplishment. We are seeking outstanding individuals with research experience and interests which augment current departmental programs.

Applicants with research in the following areas are especially welcomed: 1) Gene expression in the cardiovascular system or cardiovascular disease, 2) Subcellular compartmentalization in signal transduction and/or ion channel regulation, and 3) Pharmacogenetics of drug metabolism or proteomic/genomic approaches to significant pharmacologic problems. Successful candidates will be expected to establish and maintain active, externally funded research programs and to participate in teaching medical students and other health professionals, as well as graduate and postdoctoral students. An attractive start-up package including excellent facilities and generous start-up funds will be available.

Send curriculum vitae, a brief description of current and future research directions, and information about teaching experience. Three letters of recommendation should be requested. Address correspondence to: Dr. Richard Neubig, Chair, Pharmacology Search Committee, Department of Pharmacology, The University of Michigan Medical School, 1150 West Medical Center Dr., Ann Arbor, MI 48109-0632.

Information about current faculty interests is available at
<http://www.med.umich.edu/pharm/faculty.html>

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.



DONALD DANFORTH PLANT SCIENCE CENTER

The Danforth Center announces positions for faculty at Full, Associate and Assistant Member levels to direct fundamental research programs. Seeking scientists with broad interests/training in at least two scientific disciplines and well formed research programs that will benefit from interactions with scientists of other disciplines. Demonstration of prior/current support and of interdisciplinary research beneficial. Up to 10 faculty appointments will be considered in structural biology, biochemistry, phytochemistry/nutraceuticals, cell biology, gene regulation, root-soil interactions, molecular plant pathology, physiology, and abiotic stress biology. Successful candidates are expected to develop collaborative research programs within the Danforth Center and/or with scientists at partner institutions. Visit our website, www.danforthcenter.org, for more information about the Danforth Center.

Send a curriculum vitae, reprints and four letters of reference to: Ms. Billie Broeker, Human Resources, Donald Danforth Plant Science Center, 7425 Forsyth Boulevard, Campus Box 1098, St. Louis, MO 63105.

The Donald Danforth Plant Science Center is an equal opportunity/affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.



NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

The Nanyang Technological University (NTU) was established in 1991. It has its origin in the former Nanyang Technological Institute which was set up in August 1981 with the primary function of conducting degree and postgraduate courses and research in engineering and technology. Today, NTU has become one of the top Universities in Asia and has gained excellent reputation as a university of industry and business. It has built up strong Schools in the fields of engineering and technology, business, education and mass communications. It has currently an enrolment of more than 14,000 undergraduate and 4,000 graduate students.

*Faculty
Appointments*

THE SCHOOL OF BIOLOGICAL SCIENCES

As part of the Singapore Government's high priority initiatives to boost the Life Sciences industries in the country, NTU will establish a College of Life Sciences. Capitalising on the strengths of NTU in the engineering and business areas, the College will offer new multi-disciplinary programs in Life Sciences best suited for the cross-functional capabilities needed for the R&D, manufacturing and management sectors of the Life Sciences industries.

In the first phase of the development of the College, NTU is pleased to announce the establishment of the **School of Biological Sciences**. This School will offer a degree course leading to a Bachelor of Science (Honours) in Biological Sciences. The course aims to produce a new generation of graduates who are not only highly knowledgeable in biological sciences and basic scientific research skills, but also strong in business acumen for entrepreneurship in Life Sciences. The School will take in its first batch of students in July 2002. More details of the establishment of the School of Biological Sciences can be found in the website <http://www.ntu.edu.sg/personnel/sbs.htm>.

Invitation for applications

The University is inviting high calibre applicants who possess a PhD and preferably with a proven track record in research and teaching at university level, to apply for faculty positions in the School in the following areas:

Genetics, Molecular and Cell Biology, Biochemistry, Computational Biology and Microbiology

Successful applicants will be offered attractive remuneration package commensurate with their qualifications and work experience. The annual salary, which will be paid in monthly instalments, comprises the Monthly Basic Pay (multiplied by 12 months) and Group Bonus. The current ranges of the annual salary, inclusive of the non-contractual Group Bonus amount (which is presently equivalent to 2 months of the Monthly Basic Pay) are as follows:

Annual Salary (for 12 months) Inclusive of Group Bonus

Assistant Professorship	S\$ 71,400	-	S\$123,200
Associate Professorship	S\$110,600	-	S\$208,600
Professorship	S\$182,000	-	S\$257,600

(US\$1 = S\$1.75 approximately as at 5 February 2001)

In addition to the above, an Individual Performance Bonus may be paid solely at the discretion of the University depending on the performance of the individual and the University.

Leave and medical benefits will be provided. Other benefits, depending on the type of contract offered, include provident fund benefits or a Special Payment for Foreign Staff, settling-in allowance, subsidised housing, children's education allowance, passage assistance, and baggage allowance for transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees earned.

Applicants should complete and send their application form (which can be downloaded from <http://www.ntu.edu.sg/personnel/>) or their detailed curriculum vitae, which should include their areas of research interest, list of publications and the names and addresses, e-mail addresses and telefax numbers of three referees to: **Director of Personnel, NANYANG TECHNOLOGICAL UNIVERSITY, Personnel Office, Administration Building, Level 4, 50 Nanyang Avenue, Singapore 639798. Telefax: (65) 791-9340; Internet: EHLEE@ntu.edu.sg**

UNIVERSITÄT LEIPZIG

Under the **Free State of Saxony's Biotechnology and Genetic Engineering Initiative**, a number of **junior research groups** are to be established at the University of Leipzig, Germany, and granted first-rate technical resources. **Leaders** are required at the earliest opportunity for the following groups:

Solid-state NMR Studies of the Structure of Membrane-associated Proteins

(Faculty of Physics and Geosciences and Faculty of Medicine)

Applicants should have broad experience of the basic principles and methodological problems of NMR spectroscopy (including PhD and postdoctoral experience) as well as in particular a strong background in solid-state NMR of membranes and membrane proteins. The group will be able to use a Bruker 750MHz NMR spectrometer (wide bore magnet) and various other high-field NMR spectrometers at the University's Magnetic Resonance Centre.

Molecular Medicine of Infectious Diseases

(Faculty of Veterinary Medicine)

Applicants should have a PhD or equivalent in the field of infectious diseases using pathogen-related and/or host-related molecular techniques. I2/S2-standard laboratories and a specific pathogen-free mouse facility are available.

Tissue Engineering

(Faculty of Medicine)

Applicants should have a strong background (including PhD and postdoctoral experience and significant publications) in the production and modelling of functionally active tissue and organ structures, as well as the control of cell differentiation procedures and stem cell biology. Candidates should demonstrate their interest in specific transfer projects and applications in human medicine. The successful applicant can look forward to close co-operation with the Faculty of Biology, Pharmacy and Psychology and the Faculty of Veterinary Medicine.

Molecular Diagnostics — Microarray Techniques

(Faculty of Medicine)

Applicants should have a strong background (including a PhD and postdoctoral activity) in the field of multiple genome and/or proteome analysis for diagnostic developments and research into pathogenesis. Interest is expected in medical applications (e.g. pharmacogenomics). The group will have access to clinical and laboratory data as well as tissue samples thanks to the presence of two large study centres. Moreover, a bioinformatics centre is currently being set up in Leipzig by the DFG, the German research council.

Applied Molecular Evolution

(Faculty of Biology, Pharmacy and Psychology)

Applicants should possess a PhD in molecular or evolutionary biology, and postdoctoral experience in at least one of these areas is also expected. They should also be able to demonstrate a deep interest in applied evolutionary research using molecular tools. The successful applicant can look forward to a stimulating research environment including not only the University but also the Max Planck Institute of Evolutionary Anthropology and the UFZ Centre for Environmental Research Leipzig-Halle.

Single Molecule Detection

(Faculty of Biology, Pharmacy and Psychology)

Applicants should have a PhD in life science. Postdoctoral experience is also expected in at least one of the following areas: CHIP technology, expression analysis, mutagenesis or fluorescence correlation spectroscopy. The group will have access to a ConfoCor1 spectrometer.

Protein Engineering

(Faculty of Biology, Pharmacy and Psychology)

Applicants should have a PhD in life science. Postdoctoral experience is also required in at least one of the following areas: protein design, protein expression or protein modification. Candidates should also have a close interest in applied research. The group will have access to a number of protein analysis techniques.

Bioprocessing

(Faculty of Chemistry and Mineralogy)

Applicants should have a PhD in bioprocessing/applied biotechnology as well as postdoctoral research experience, and should also be interested in the interdisciplinary field of biotechnology. The research junior group is planned as a link between biotechnological groups working in the natural science faculties and the Faculty of Medicine. It will also co-operate closely with the new, superbly equipped biological pilot plant at the UFZ Centre for Environmental Research Leipzig-Halle.

Protein—Ligand Interaction by Ion Cyclotron Mass Spectrometry

(Faculty of Chemistry and Mineralogy)

Applicants should have a PhD in mass spectrometry; postdoctoral research experience in this field would also be an advantage. Candidates are expected to demonstrate research interest in the field of bioanalysis. Facilities include a 7 Tesla ICR FT mass spectrometer.

All the above vacancies are for a five-year term as a *wissenschaftlicher Mitarbeiter* ("scientific collaborator") pursuant to Section 50 of the SächsHG (Saxon Higher Education Act), and are classified for remuneration purposes as BAT-O 1b positions. Successful candidates will of course have the opportunity to complete a *Habilitation* (the German postdoctoral lecturing qualification). Applicants may not be older than 35.

Applications for the **above positions** should be submitted by **21.03.2001** (closing date postponed) to: **Prorektor für Forschung und wissenschaftlichen Nachwuchs, Ritterstraße 26, D-04109 Leipzig, Germany.**

The University of Leipzig is an affirmative action/equal opportunity employer. Applications should comprise your CV (including full professional, scientific and teaching experience, list of publications and photograph) and a certified photocopy of your highest academic degree certificate.



Cognitive Neuroscience Positions

Duke University

The Center for Cognitive Neuroscience at Duke University seeks exceptional candidates for two senior faculty positions. We are especially interested in leaders with international reputations in the areas of: *Cognitive Neuropsychology/Neurology* and *Computational/Neural Modeling of Cognition*, although exceptional candidates in other areas will be considered. A demonstrated record of a first-rank extramurally funded research program at the cutting edge of cognitive neuroscience is required. New faculty will hold primary appointments at the Associate or Full Professor levels in university departments such as Psychology, Computer Science, Philosophy, Biomedical Engineering, Electrical and Computer Engineering, Biology or other departments as appropriate, and will participate in both undergraduate and graduate education. Clinically relevant appointments in Duke Medical School will be made as appropriate (e.g., Neurology). The Center for Cognitive Neuroscience (CCN) is one part of an interdisciplinary initiative that includes: (i) the recently developed Brain Imaging and Analysis Center (BIAC) in Duke Medical School, directed by Professor Gregory McCarthy, which houses new 1.5T and 4T GE MRI scanners dedicated to neuroimaging research, (ii) the newly approved Center for Neuroengineering, and (iii) the new University Program in Neural Analysis. Together the CCN, BIAC, the Department of Neurobiology and reorganized Department of Psychological and Brain Science represent one of the most progressive efforts in brain and mind sciences in the U.S. today. Interested candidates should submit a statement of research and teaching interests, c.v., representative publications, and the names of three references to:

**Professor George R. Mangun, Director,
Center for Cognitive Neuroscience
Box 90999 (for courier use LSRC Bldg., Rm B203)
Duke University, Durham, NC 27708
Tel. 919-668-2512; FAX 919-681-0815**

The searches will remain open until the positions are filled, but applications received by April 1, 2001 will be guaranteed consideration. For information see <http://www.mind.duke.edu>.

Duke University is an Equal Opportunity/Affirmative Action Employer.

GER Global Environmental Research at UC Davis

Opportunities for Postdoctoral Researchers

The *Research Institute of Innovative Technology for the Earth* (RITE) seeks postdoctoral researchers with training in molecular genetics, enzymology, biochemistry, and microbiology. RITE, a non-profit organization, was formed to find practical methods for alleviating the burden put on the environment since the Industrial Revolution. RITE is currently supporting research at the UC Davis Department of Molecular & Cellular Biology in order to study specific areas of interest such as the efficient conversion of biomass to sugars by genetically engineered enzymes and microorganisms; also, basic research on cell division focused mainly in *Corynebacterium*. Successful applicants can expect to have a 2-3 year tenure with RITE. Salary: \$30,000 per annum or more depending on experience. To apply, submit curriculum vitae, any publications, and 3 letters of reference to:

**Dr. Hideaki Yukawa and Dr. Roy H. Doi
Section of Molecular & Cellular Biology
University of California, Davis
Davis, CA 95616**

The information can be e-mailed to
hyukawa@ucdavis.edu and rdoi@ucdavis.edu



National Exposure Research Laboratory Post-Doctoral Program Human Health Exposure

The National Exposure Research Laboratory (NERL) of the United States Environmental Protection Agency is seeking candidates to fill as many as **32 federal, four-year post-doctoral research positions** during the coming year. NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales including landscape alterations. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; and human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators). NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging microbial pathogens (bacteria, protozoan parasites, and viruses) in water supplies; exposure of children to pesticides; and multi-media, multi-pathway exposure modeling in humans.

Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, biology, molecular biology, bacteriology, protozoology, virology, ecology, applied mathematics and statistics, human health sciences, computer science, and environmental engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years or will have it awarded not later than August 31, 2001.

The NERL post-doctoral positions will be located in a Division in one of the following locations: Research Triangle Park, North Carolina; Reston, Virginia; Cincinnati, Ohio; or Athens, Georgia; depending on the particular disciplinary focus, and will be filled beginning **June 2001**. Successful applicants will begin work before October 1, 2001. These excepted service appointments will last for four years and offer a salary range of **\$43,326 - \$69,431**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. **Applicants must be United States citizens or permanent residents. Only in the absence of qualified U.S. citizens will permanent residents who are citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens be considered.** Further information on Federal employment of non-citizens is available at <http://www.opm.gov/employ/html/citizen.htm>.

The filing deadline for these post-doctoral positions is **April 6, 2001**. If you are interested, please send the following to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle Park, NC 27711, Attn: NERL/Human Health Exposure Post-Doctoral Program: **a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus, desired position(s) you prefer** (see NERL Internet site below for specific positions), **country of citizenship, and citizenship status** (citizen or permanent resident). If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via express mail, address it to **Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NERL/Human Health Exposure Post-Doctoral Program**. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Application materials must be received in the Human Resources Office or postmarked by **April 6, 2001**. Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **June 12, 2001**.

For specific job information on the NERL post-doctoral program, you may access the National Exposure Research Laboratory's Internet site at <http://www.epa.gov/nerl>.

The U.S. EPA is an Equal Opportunity Employer

ORNL

Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation's leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security. ORNL also provides an environment that encourages collaborative research and development, and promotes access to the Laboratory's facilities by researchers from other research organizations, industry and academia.

Environmental Scientists & Modelers

The Environmental Sciences Division (ESD) at the Oak Ridge National Laboratory seeks mid-career scientists who desire to work in a multidisciplinary team setting, conceiving, designing and executing research focused on environmental questions of national interest. Several opportunities are available at our East Tennessee research campus:

Plant Scientist. Lead efforts to increase production efficiency of herbaceous energy crops. Requires knowledge of crop breeding, molecular genetics and production agriculture, and agronomic experience.

Watershed Hydrologist. Help develop a new research program focused on regional water cycles and their link to global climate. Modeling/computational skills are essential. Research interest in scaling issues (watershed to region to globe) is also necessary.

Ecosystem Modeler. Develop innovative approaches to integrating ecosystem-level models with socioeconomic and global climate change models. Computational/modeling skills are required, as well as experience in parallel programming.

Soil Scientist. Team with plant physiologists and ecologists to understand below-ground ecosystem responses to environmental changes (e.g., elevated CO₂, altered precipitation). Propose research utilizing the large-scale environmental facilities on the Oak Ridge Reservation: Free Air CO₂ Enrichment (FACE) site, Walker Branch Watershed and Throughfall Displacement Experiment.

While preferring mid-career scientists, we welcome candidates at all stages in their careers. Positions are dependent on funding availability. Please submit your resume, with 3 references (name, phone and e-mail) and letter of interest, by April 1, to: **Dr. Robin L. Graham, Oak Ridge National Laboratory, PO Box 2008, Dept. SCI, Oak Ridge, TN 37831-6036; e-mail Grahamr1@ornl.gov**

Further information about these positions, ESD and ORNL is available at:
www.esd.ornl.gov/aboutus/open_positions.html
www.esd.ornl.gov
www.ornl.gov

ORNL, a multipurpose research facility managed by UT-Battelle, LLC, for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse work force.



Baylor College of Medicine

Huffington Center on Aging

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral Research Associate to participate in a program of research on transplantation of adrenocortical cells in *scid* mice. See *Nature Medicine* 3: 978, 1997 and *Nature Biotechnology* 18: 39, 2000. The successful applicant will have good skills in rodent surgery, or will have an aptitude for this work and be willing to undergo extensive training. Additionally, prior experience in small animal care, histology, and histochemistry would be beneficial. Salary will be approximately \$40,000.

Send CV and names of three references to Dr. Peter Hornsby, Baylor College of Medicine, One Baylor Plaza M320, Houston, TX 77030. Fax 713-798-6688

<http://adams.bcm.tmc.edu/~phornsby/hornsby/lab.html>

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer

Veterinary Anatomic Pathologist

The Wadsworth Center has an immediate opening for a veterinary anatomic pathologist. The Center is the country's most comprehensive state health laboratory with a long-standing commitment to research in areas such as cell and molecular structure, genetics, immunology, infectious disease, neuroscience, and environmental science. The Center's exceptional research environment is enhanced by outstanding core facilities and by new initiatives in bioinformatics, genomics, nanobiotechnology, and molecular epidemiology.

The successful applicant will provide pathology support to research scientists working mostly with mice and will have the options of obtaining an academic appointment at SUNY and developing an independent or collaborative grant-supported research program. The position requires a DVM and ACVP certification or board eligibility. A competitive salary commensurate with training and experience and a generous benefits package will be offered. The Center will assist in identifying career opportunities in the Albany area for professional couples.

Applicants should submit a CV and have three letters of reference sent to: **Dr. Donal Murphy, Chair, Veterinary Pathologist Search Committee, Research Office (C345), Wadsworth Center, New York State Department of Health, PO Box 509, Empire State Plaza, Albany, New York 12201-0509; murphy@wadsworth.org**. For more information about the Wadsworth Center, go to www.wadsworth.org. AA/EOE

Together, we can do more... for the cause

VICE PRESIDENT RESEARCH PROGRAM

The American Diabetes Association supports research in diabetes by funding over 400 scientists throughout the United States through a competitive, peer-reviewed process. We are now seeking applicants for the position of Vice President, Research Program at our Alexandria, VA National Office. The successful candidate will oversee the administration of our research program to include managing all aspects of grant review and interacting with our volunteer leadership to establish the scope and direction of the research program. Secondary responsibilities include presentations to lay and scientific audiences, representing the Association at research conferences, and assisting other staff in promoting the financial growth of the program.

Requires: Ph.D., M.D., or the equivalent degree; supervisory experience; a record of productive research; and excellent written/verbal communication skills. An understanding of the science of diabetes is highly desirable, as well as familiarity with the not-for-profit voluntary health sector.

Please send letter of interest, CV, and salary requirements, to: **American Diabetes Association, Attn: HR/TA/SM, 1701 N. Beauregard St., Alexandria, VA 22311; Fax: (703) 299-5525; or E-mail: personnel@diabetes.org**.

The American Diabetes Association is a proud equal opportunity employer that holds inclusion as a core value.



www.diabetes.org

DISCOVER THE POWER OF PROTEIN ENGINEERING

Applied Molecular Evolution (AME) is a rapidly growing public company and a leader in the application of directed evolution to the development of biotherapeutics.

AME seeks scientists who can work independently while applying problem solving skills to achieve critical project goals. AME provides a high level of responsibility in a dynamic working environment with the opportunity to develop and implement leading-edge protein engineering technologies. Additionally, AME scientists receive excellent benefits and compensation, including equity participation and generous performance-linked incentives.

Our strategic growth has created an immediate need for scientists with the following qualifications:

Senior Scientists (Ph.D.) with expertise in:

- Protein expression and purification
- Protein engineering
- Antibody engineering
- Immunoglobulin expression
- Reporter assays
- Animal models

Automation Specialist



Send cover letter and resume to:

HR Department

Applied Molecular Evolution, Inc.

3520 Dunhill Street, San Diego, CA 92121

careers@AMEvolution.com

www.AMEvolution.com



Postdoctoral Fellowships

Experimental Therapeutics and Pathophysiology Branch

Mood and Anxiety Disorders Program

National Institute of Mental Health

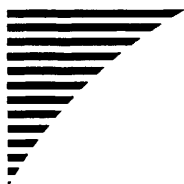
Bethesda, MD



Postdoctoral fellowships under the mentorship of Dennis S. Charney, M.D., Daniel Pike, M.D., and Kathleen Merikangas, Ph.D., are available in the Experimental Therapeutics and Pathophysiology Branch at the National Institute of Mental Health. Candidates must have a strong research interest and relevant experience in investigation of the epidemiology, neurobiology, or the treatment of Mood and Anxiety Disorders. Fellowships will include training in brain imaging, genetic epidemiology, developmental affective neuroscience, and novel therapeutics. Successful candidates must have an M.D. and residency training in psychiatry or Ph.D. in Psychology or a related discipline. Applicants should send a curriculum vitae, statement of research interests, and have three letters of recommendation sent by July 01, 2001 to:

Dr. Dennis Chaney
Director, Mood and Anxiety Disorders Program
Chief, Experimental Therapeutics and Pathophysiology Branch
DIRP, NIMH, Building 10, Room 4N-222
9000 Rockville Pike
Bethesda, MD 20892-1381

The National Institutes of Health is an equal opportunity employer.



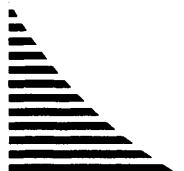
**PIERRE FABRE MÉDICAMENT IS PART
OF THE BIOMÉRIEUX-PIERRE FABRE GROUP,**

playing a major role in the profession of pharmaceuticals, dermocosmetics, homeopathy-phytotherapy and diagnosis. Present in more than 120 countries and achieving a turnover of over 11.5 billion French Francs, over half from outside France. Devoting 1.7 billion French Francs to Research and Development and more than 11,500 collaborators.

Post-Doc OPIOID ADDICTION



**Pierre Fabre
Médicament**



A post-doctoral position is available for a neurobiologist conversant with behavioral studies of opioid addiction in animals.

The position is available at the Centre de Recherche Pierre Fabre (CRPF) in Castres, South of France. The CRPF is a drug discovery centre, active in CNS, cardiovascular and cancer research.

The successful candidate will take part in an innovative research project aimed at the treatment of opioid addiction. The candidate must have a Ph. D. level training that necessarily includes behavioral paradigms and pharmacological techniques. The candidate must be capable of working in a diverse, multidisciplinary environment and of preparing the publication of the high-standard results that are expected.

The position is available immediately.

Please send a detailed CV together with a motivation letter and three letters of recommendation (ref. 60/00 MM-S) to: Pierre Fabre Médicament, Human Resources Department, Parc Industriel de la Chartreuse, 81106 Castres Cedex, France.

E-mail: recrutement.cadres.pfm@pierre-fabre.com

**ENVIRONMENTAL
GEOLOGIST**

The ENVIRONMENTAL SCIENCES program of the Division of Natural Sciences at Purchase College, SUNY seeks to hire an Assistant Professor (tenure track) with expertise in an area of geology, hydrology, soils science, or related discipline. The successful candidate will teach Geology w/lab, Environmental Geology, a course in the individual's area of specialization, and participate in the College's general education program. The candidate will also be expected to establish a research program on an applied aspect of geoscience that involves undergraduates and supports senior projects. Ph.D. in a related science with relevant teaching and research experience is required. Expertise in GIS and other computer applications is highly desirable.

Purchase College is a 4000 student, public Liberal and Fine Arts college located 30 miles north of NYC. For a more detailed description go to www.ns.purchase.edu.

Send curriculum vitae, graduate transcripts, summary of research interests, description of teaching experience and philosophy, and names and addresses of three references to: **Environmental Sciences Search Committee, c/o Robin (Tobi) Jacobs-Yanthis, Affirmative Action Officer, Purchase College/SUNY, 735 Anderson Hill Road, Purchase, NY 10577-1400. AA/EO Employer. Position subject to final budgetary approval.**



**Mayo Clinic
Research Associate Positions**

Five positions are available at the Rational Molecular Design Lab to develop therapeutic agents using new techniques in computational chemistry and combinatorial chemistry: two Ph.D.-level computational biologists with experience in molecular mechanics and/or quantum mechanics calculations of biological systems; a synthetic chemist with at least an MS degree and experience in synthetic chemistry; a biochemist or pharmacologist with at least an MS degree and experience in *in vitro* and *in vivo* testing of therapeutic agents; and a computer programmer with at least a BS degree and knowledge of parallel computing and statistical mechanics. Salary will be determined by the successful candidate's experience. There is also an attractive benefits package. Mayo Clinic is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. Mayo Clinic has an annual research budget of more than \$100 million. Applications including CV and three recommendation letters should be sent to:

**Yuan-Ping Pang, Ph.D.
Mayo Clinic
Guggenheim 711A
200 First St. SW
Rochester, MN 55905
pang@mayo.edu**

See also <http://www.mayo.edu/research/>

Mayo Foundation is an affirmative action and equal opportunity employer and educator.



Philip Morris U.S.A.

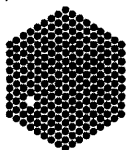
POSTDOCTORAL SCIENTIST

Philip Morris, USA, a leading manufacturer and marketer of consumer products made for adults, seeks **Postdoctoral Scientist** to join our Product Integrity group in Richmond, VA. The postdoctoral program, typically requiring 1 -2 years, is designed for candidates who have a solid background in chemistry, *in vivo* or *in vitro* toxicology. It will provide industrial experience in toxicity testing and prepare them for a career as a toxicologist. Training will include exposure to many research projects and specialized contract laboratory testing. Learning via responsibility for reading and interpretation of research and toxicology studies will be supplemented by seminars and attendance at national meetings. Two research programs will be staffed. In the first, the successful candidate will participate in the development and implementation of toxicology and chemistry studies investigating ingredients used in cigarette manufacturing (Job code: 803). In the second program, the candidate will investigate the impact of various materials on smoke chemistry and sensory irritation (Job code: 804).

To qualify, you must have a Ph.D. in Toxicology, or a related field, with emphasis on Inhalation, Genetic Toxicology, Chemistry or Biochemistry. Candidates must have excellent oral and written communication skills and be able to work independently.

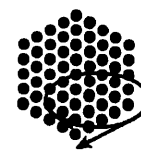
We offer competitive pay, excellent benefits and relocation package. Philip Morris, USA is an Equal Opportunity/Affirmative Action Employer (M/F/D/V). We encourage diversity in our workplace. For immediate consideration, please visit our website at: www.philipmorrisusa.com/careers. Select the 'Search Our Jobs' option, select the 'Apply On Line' option, enter job code 'SCI 0101' into the keyword search box, and click 'Apply Now'. If you do not have Internet access, you may mail your resume to: Strategic Staffing Department, Philip Morris USA, P.O. Box 23261, Richmond, VA 23261, Attention MLW. The deadline for application is March 14, 2001.

Philip Morris U.S.A.



EMBL

EMBL Hamburg Outstation



Please visit our web sites for full details of these vacancies at EMBL Hamburg:
<http://www.embl-hamburg.de/jobs.html>

The European Molecular Biology Laboratory (EMBL) is an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy).

Within the new Scientific Programme 2001-05, the EMBL Outstation in Hamburg is substantially upgrading its infrastructure as a state-of-the-art laboratory for research, training and provision of experimental synchrotron beamline and protein production facilities to the international scientific community. Our main focus will be on the development of high-throughput and proteomic oriented technologies in the structural biology of biomacromolecules. We have the following openings:

STAFF SCIENTIST IN FUNCTIONAL AND STRUCTURAL BIOLOGY (ref. 01/41)

We are seeking a scientist with experience in techniques on protein function and production, including heterologous expression, purification, biophysical and biochemical characterisation and crystallisation. Previous experience in X-ray crystallography would be an advantage, but is not essential. You will be associated with the group of Dr. Matthias Wilmanns. The group's scientific interests are focused on: The giant muscle protein titin, protein kinases, peroxisome import, transcription factor complexes, metabolic pathways and thermophilic proteins.

TWO STAFF SCIENTISTS IN X-RAY CRYSTALLOGRAPHY WITH SYNCHROTRON RADIATION (ref. 01/42)

We are seeking two scientists who will be involved in our biocrystallography synchrotron beamline facilities. Previous experience in X-ray crystallography is essential. You will choose independent scientific projects in technology development of high-throughput X-ray crystallography, automation of synchrotron radiation data acquisition facilities, and/or a number of research areas in structural biology, teaming up with ongoing research projects. You will be initially associated with one of the research groups in biocrystallography.

STAFF SCIENTIST IN SYNCHROTRON INSTRUMENTATION (ref. 01/43)

We are seeking a scientist with an academic degree and a background in applied science. You will be associated with the instrumentation group of Dr. Christoph Hermes. The successful candidate will be involved in the design and construction of new, and in the upgrading of existing synchrotron radiation beam lines and beam line equipment. Challenging new projects with great innovation potential are expected in the context of planned major upgrades of the storage rings on the DESY site in Hamburg.

UNIX SYSTEM ADMINISTRATOR (ref. 00/82)

You will work with the computer group that manages the computer hardware and software infrastructure supporting the Research Programme and experimental user facilities and will contribute to their development into user-friendly and highly automated facilities. Network troubleshooting skills, experience with DEC or SGI systems and the integration of PCs/MACs as well as previous experience with structural biology technologies would be advantageous.

INFORMATION SERVICES - WEBMASTER (ref. 01/44)

We are seeking a web specialist for the development of information services for the scientific user community. You will focus on enhancing our website, and researching and applying state-of-the-art web technologies. Knowledge of Unix/Html/cgi/Perl/Java programming is required. Knowledge of SQL, Oracle would be beneficial. You will team up with ongoing projects to further develop the local computer, database and hardware infrastructure.

SOFTWARE ENGINEER (ref. 01/45)

We are seeking a programmer to develop a software for automation of the experimental stations at our synchrotron facilities. A background in programming and experience in the design of GUIs is essential. Knowledge of C/C++, Tcl/Tk is required; experience in LabView or Python would be an advantage. You will team up with ongoing projects to develop further the local computer, database and hardware infrastructure.

PRECISION MECHANIC TECHNICIAN IN INSTRUMENTATION (ref. 00/95)

We are seeking a precision mechanic technician to complement the instrumentation Group of Dr. Christoph Hermes. This group designs, builds and maintains synchrotron radiation beamlines and advanced equipment in structural biology. You will be working out hardware solutions from conceptual design sketches and to machine essential parts in our mechanical workshop. Implementation of innovative ideas is strongly encouraged.

RESEARCH TECHNICIAN IN THE WET LABORATORY (ref. 01/46)

We are operating a molecular biology laboratory to produce and purify proteins for structural studies (including prokaryotic and eukaryotic expression, purification, characterisation and crystallisation) and functional analysis. You will be assisting to manage the wet lab facilities and equipment, and you will be involved in technical training and assistance to researchers on their projects.

RESEARCH TECHNICIAN IN STRUCTURAL BIOLOGY (ref. 01/47)

We are seeking a laboratory technical assistant with a background in biochemistry and molecular biology. There is a variety of biological projects that involve protein over-expression, purification and characterisation in and are in close interaction with activities of biocrystallography groups. The post will be involved in development of high-throughput technologies in structural biology. You will be associated with the group of Dr. Victor Lamzin.

SYNCHROTRON BEAM LINE TECHNICIAN (ref. 01/48)

You will assist and support the synchrotron beam in X-ray absorption spectroscopy and its research activities by in-house staff and external visitors. Requirements: basic skills and expertise in programming, electronics, support of hardware equipment. You will be associated with the group of Dr. Wolfram Meyer-Klaucke.

For further details on these positions please contact: Dr. Matthias Wilmanns, email: wilmanns@embl-hamburg.de, tel.: +49-40-89902-110/111, fax: +49-40-89902-149.

EMBL is an inclusive, equal opportunity employer offering attractive conditions and benefits appropriate to an international organisation.

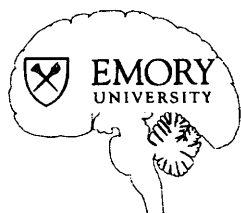
To apply please write, enclosing CV with full details of qualifications and experience, the addresses of three referees and quoting relevant ref. no., to:

The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany.

Fax: +49 6221 387555; email: jobs@embl-heidelberg.de

FACULTY POSITIONS

EMORY UNIVERSITY SCHOOL OF MEDICINE



The Emory Center for Neurodegenerative Disease is seeking applications for **TENURE-TRACK FACULTY POSITIONS** in the areas of neurodegeneration, neuroprotection and brain repair. Positions are available at all ranks. Faculty will participate in a new state-of-the art interdisciplinary center. Applicants are expected to develop independent research programs and to interact with other center faculty. Participating Center faculty have primary appointments in a variety of basic and clinical departments, with interests in basic mechanisms of neurodegenerative diseases such as Parkinson's, Alzheimer's, Huntington's, stroke, ALS and head injury.

Candidates should provide curriculum vitae; a brief statement of research interests; and the names, addresses, and telephone numbers of three references to: **Search Committee, Neurodegenerative Disease Center, ATTN: Sylvia Cotton, Department of Neurology, Emory University School of Medicine, Woodruff Memorial Building, Suite 6000, P.O. Drawer V, Atlanta GA 30322. E-mail: Slcotto@emory.edu**

"INTERBREW-BAILLET LATOUR HEALTH PRIZE - 2002"

Application field: Influenza.

Amount:

The Prize will amount to **six million Belgian Francs** (6,000,000 BEF - 150,000 EUR).

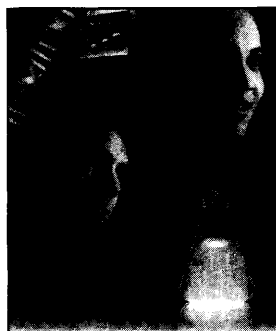
The Prize is awarded to persons working in the field of scientific research and/ or its practical applications. The Prize will recognize the scientific merit of the winner and should assist him or her in the pursuit of his or her work.

Candidates to the Prize may be of Belgian or foreign nationality.

Candidatures must reach the Secretary General of the F.N.R.S., rue d'Egmont 5, B - 1000 Brussels (Belgium) before **September 14, 2001**. The personality proposing the candidature must provide a memorandum, at least three pages in length and drawn up in English, on the candidate's merits.

Regulations:

The regulations can be obtained from the secretariat of the F.N.R.S., rue d'Egmont 5, B - 1000 Brussels, tel: +32 (0) 2 504 92 11, fax: +32 (0) 2 504 92 92, e-mail: mjsimoen@fnrs.be.



The Face of Pfizer

The best is getting even better! As the world's largest pharmaceutical research enterprise, Pfizer is dedicated to providing the best innovations in medicine while pursuing tomorrow's discoveries in research and development. With an R&D budget of \$4.7 billion, our team has spurred Pfizer's exceptional performance in 30 countries and across six continents. If you share our dedication to discovering, developing and delivering medicines to improve the health of both people and animals worldwide, we want you to be the newest Face of Pfizer. Explore this opportunity at our facilities in La Jolla, California.

Research Scientist, Biochemistry

We seek a successful and creative professional to work within our multidisciplinary project team to discover novel therapeutics using a structure-based approach to drug discovery. Specifically, you'll apply your excellent computation, problem solving and communication skills as you physically and kinetically characterize therapeutically important enzymes and develop robust enzymatic assays within Drug Discovery. Thanks to our matrix approach, you'll become involved in a range of therapeutic areas, including oncology, ophthalmology and viral disease. You'll need a PhD in Biochemistry strengthened by completion of postdoctoral studies. Experience in enzymology is a must, and working knowledge of biophysical ligand-binding techniques is desirable.

Pfizer offers an exceptional work environment complete with training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating Req. #01-0333-135SM in the subject field, to SCI@pfizerresumes.com. If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.



Life is our life's work.

Faculty Positions in Cancer Research LSU Health Sciences Center

The Stanley S. Scott Cancer Center at LSU Health Sciences Center in New Orleans invites applications for positions at the Assistant, Associate, or Professor level. Candidates should possess a Ph.D. or M.D. degree and have demonstrated excellence in their research as indicated by publications and a track record of externally funded research grants. The successful applicants will be expected to pursue an independent, yet collaborative approach, addressing broad issues that relate to oncologic science. Research interests in prostate cancer and/or tumor immunology are encouraged but not required.

The search will give full consideration to applications that include a curriculum vitae (including funding grant history), four representative publications, and the names of three individuals that may be contacted for letters of reference.

A joint appointment in the Cancer Center and an appropriate Department of Basic or Clinical Science at the LSU Health Sciences Center is anticipated. The individual Department will be dependent on the successful applicant's expertise and interest. Laboratory space will be provided in a new facility in the heart of the Health Sciences Center complex.

Interested candidates should submit their curriculum vitae to **Dr. Oliver Sartor, Director, Stanley S. Scott Cancer Center, Suite 4E1, 533 Bolivar Street, New Orleans, Louisiana 70112.**

LSUHSC is an Equal Opportunity/Affirmative Action Employer.

Trimeris, Inc., a publicly held biopharmaceutical company focusing on the discovery and development of a new class of antiviral therapeutics, seeks qualified candidates for the following positions:

☉ Phage Display Scientist

Construct and screen phage display libraries and assist in development of novel phage display strategies. Requires an MS degree in a related field and 3 or more years of related experience or equivalent.

☉ Process Chemist

Develop chemical processes suitable for scale-up. Requires a Ph.D. in Organic Chemistry or equivalent.

Visit us at www.trimeris.com for more information on job opportunities. Please send resume to: Trimeris, Attn: H.R. Dept., Job Code: 3-020401-1-SCI, 4727 University Drive, Durham, NC 27707. EOE. No phone calls please.



Creating Drugs That Regulate Gene Expression

Scientist/Principal Investigator Metabolic Diseases

Tularik is a leading biopharmaceutical company focused on the discovery and development of drugs that regulate genes involved in human diseases. Our development pipeline is robust, with 4 drug candidates in clinical trials. An exciting opportunity exists for a dynamic Scientist to lead the *in vivo* research in support of our metabolic diseases drug discovery efforts.

The successful candidate will possess a solid background of scientific accomplishments, as indicated by publication record, patents and/or contributions to drug discovery and development. The incumbent will integrate Tularik's molecular and cellular biology discoveries into meaningful preclinical models for proof-of-concept studies and selection of clinical candidates. A Ph.D. and/or MD with experience in preclinical research, molecular biology or biochemistry of diabetes, obesity, and related metabolic diseases is required, along with experience in a productive research environment (either industry or academia) and familiarity with preclinical models of metabolic diseases. Demonstrated creativity leading to novel approaches to animal model development for prediction of activity of clinical candidates is highly desirable.

If you are a talented and creative scientist ready to take on a challenging role, we want to hear from you. Tularik offers stock options, a competitive salary and benefits package, and an exciting work environment where your contributions will make a difference. Detailed job descriptions and company information can be found on our website at www.tularik.com. If you are interested in joining an ambitious and dynamic company, please reference Position Code PT/RM and send your CV complete with Research Summary by e-mail or mail to one of the addresses below:

resume@tularik.com or Human Resources
2 Corporate Drive
South San Francisco, CA 94080

EOE

www.tularik.com

"ACADEMIE NATIONALE DE MEDECINE" of France Pierre FABRE Laboratories Dermatological and Epithelial Research Post

In order to foster international cooperation between academic institutions and industrial research Groups, "Académie Nationale de Médecine" of France and Pierre Fabre Laboratories will open a one year research position for the Autumn 2001- Autumn 2002 period. This position will be established in the south of France, in the Toulouse area, at an academic institution or at a private research centre or both.

This 2001-2002 opening is reserved for a high level research professional in the field of dermatological and/or epithelial research and may be held within the context of a sabbatical leave.

The benefits related to this position depend on the candidate's expertise. There are no citizenship restrictions.

Selection of candidates will be made by a jury including members of "Académie Nationale de Médecine" of France and research professionals from Pierre Fabre Laboratories.

Each candidate should provide a detailed C.V., a description of his/her research project, any other useful information and details of any members of his/her family who would accompany him/her.

Applications should be sent to the following address before May 30, 2001 :

PIERRE FABRE LABORATORIES
REF/ Pr GALL
Institut de Recherche Pierre FABRE, Département
Recherche et Evaluation Dermo-cosmétique
Immeuble Zodiaque 2 - Parc Technologique du Canal
3, Passage de l'Europe
B.P. 4404 - 31405 TOULOUSE Cédex 4, France



**NATIONAL INSTITUTES OF HEALTH
NATIONAL EYE INSTITUTE**

Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- Molecular Biology
- Cell Biology
- Immunology
- Psychophysics
- Biochemistry
- Epidemiology
- Biostatistics

Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov/> listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer

NYU School of Medicine is respected worldwide for our innovative leadership in research, education and medicine. We currently have the following research positions available:

POST DOCTORAL/ASSISTANT RESEARCH SCIENTIST

In this position, you will pursue the biochemical basis of defective signal transduction in T-cells isolated from murine tumors. The ideal candidate must possess a PhD and experience in handling of T-cells and/or cell biology techniques.

ASSISTANT RESEARCH SCIENTIST

Working in the genetics service laboratory, you will perform biochemical and molecular testing for the diagnosis, carrier identification and prenatal detection of inherited diseases of the nervous system. The ideal candidate will possess a Master's degree in biology, biochemistry, or a related discipline or a Bachelor's degree in science and the equivalent of at least two years' laboratory experience.

We offer competitive salaries and a comprehensive benefits package, including tuition remission. For consideration, please send your resume, indicating position of interest, to: **Tisa Hall, Staffing Specialist, NYU School of Medicine, 550 First Avenue, New York, NY 10016. Fax: 212-404-3897. E-mail: resume@med.nyu.edu (indicating Research Scientist in subject area). Visit our web site at www.med.nyu.edu/Employment. EOE.**



“*Merck is where I can have the greatest effect on human life.*”

Merck & Co., Inc. is a leading research-driven pharmaceutical products and services company. Recently ranked by Fortune in the top 10 of "America's Most Admired Companies," we continually live up to our reputation with a truly unique work environment that fosters diversity and growth. We have an exceptional career opportunity at our **Rahway, NJ** facility.

BIOCHEMIST

We are seeking an associate level scientist for research on enzymes of therapeutic importance using diverse in vitro and in vivo laboratory techniques. The primary responsibilities of this position include protein purification and the development of biochemical/cell-based assays for target validation and enzymology.

The qualified individual will have a BS or MS degree in Biology, Biochemistry, or a related area, along with at least two years of subsequent research experience. Expertise in molecular cloning, tissue culture, and general biochemical and molecular biology techniques is required. Experience with proteases or peptide libraries is a plus. The candidate should possess good oral and written communication skills, be computer competent, and be able to work in a team environment.

Merck is committed to providing employees with a stimulating work environment, as well as a competitive salary and benefits package. For consideration, please forward your resume and cover letter, including salary requirements, to: **Merck Positions, PAF Code: XHXMRSMLL03021, P.O. Box 92164, Los Angeles, CA 90009-2164. E-mail: merck@resume.isearch.com. Fax: (310) 337-3393.** Qualified candidates will be contacted. No phone calls or agencies please. We are an Equal Opportunity Employer, M/F/D/V.



COMMITTED TO BRINGING OUT THE BEST IN MEDICINE

Visit us at www.merck.com

*It's what we do.
It's who we are.*

At Merck, our first priority is improving the quality of life for people around the world. People who use our products. People who develop them. People like you. Join us in making a world of difference.



MichiganTech

Vice President for Research

Michigan Technological University invites applications and nominations for the new position of Vice President for Research.

Michigan Technological University is a comprehensive research university located in the scenic Upper Peninsula of Michigan, near the shore of Lake Superior. Michigan Tech's 400 faculty, 1,000 staff, 5,700 undergraduate students, and 700 PhD and MS students are focused on internationally recognized research and educational programs in engineering, the sciences, forestry, business, technology, and communication. Research expenditures have doubled in the last decade to approximately \$30 million per year and the new Vice President will be expected to lead the continued aggressive growth of research, scholarship, and creative activities.

The Vice President for Research will report to the Provost/Senior Vice President for Academic and Student Affairs and will work closely with the Dean of the Graduate School and other administrative personnel to advance the mission of the University. The successful applicant must have an earned Ph.D. or an equivalent combination of education and experience (a Ph.D. in a scientific or engineering related discipline is highly desirable), as well as substantial research and administrative experience.

Additional information about Michigan Tech and this position, including the job description, is available at the search website (<http://www.mtu.edu/temp/researchvp/index.html>).

Nominations, inquiries or applications (including a letter of application, resume, and the names, addresses, telephone and fax numbers, and e-mail addresses of five references) should be sent to:

Walter W. Milligan, Chair, Vice President for Research Search Committee

**c/o Human Resources
Michigan Technological University
1400 Townsend Dr.
Houghton, MI 49931-1295**

The Search Committee will start reviewing applications on March 15, 2001 and will accept applications and nominations until the position is filled.

Michigan Technological University is an Equal Opportunity Institution/Equal Opportunity Employer and complies with the guidelines of the Americans with Disabilities Act. Females and minorities are encouraged to apply.



Director, Institute of Arctic Biology

The Institute of Arctic Biology (IAB) at the University of Alaska Fairbanks seeks a Director with outstanding scientific credentials and vision for growth of research in high-latitude biology and service to the State of Alaska. The Director oversees personnel and fiscal management of the Institute, encourages and enhances opportunities for organized research, coordinates programs with academic departments, and advocates for the interests of the Institute within the University and among State, Federal, and other funding agencies. IAB is currently composed of 23 faculty, each with joint appointments in Departments of Biology and Wildlife, Chemistry and Biochemistry, or the UA Museum. IAB will be hiring up to 12 additional faculty within the next 4 years. There are 57 research associates, 85 graduate students, and 25 support staff. The Alaska Cooperative Fish and Wildlife Research Unit, with four additional faculty, resides within the Institute and provides a direct interface with State and Federal agencies. IAB is one of several research institutes at the University of Alaska Fairbanks, a Land, Sea and Space-Grant institution of approximately 7,000 undergraduate and graduate students, and 650 faculty. For more information, please visit <http://mercury.bio.uaf.edu/~iab.organizations/index.htm>.

Coordination of research at IAB is through four broad research programs in Ecology, Environmental Physiology and Biomedical Sciences, Conservation and Resource Ecology, and Evolutionary Biology. These programs are supported by approximately \$6 million annually in State, Federal, and private contracts. New programs involving IAB faculty include NSF EPSCoR programs in Environmental Physiology and Genomics, and an NIH Specialized Neuroscience Research Program. IAB maintains research support facilities on campus (core DNA Sequence Facility, Greenhouse, Animal Quarters and Surgeries, Spatial Ecology Lab) and off campus (Large Animal Research Station, Toolik Field Station, Bonanza Creek LTER Site).

Candidates should have a Ph.D. in a field relevant to research disciplines of the Institute, and an outstanding record of research accomplishments, grant support, and publications. They should have strong leadership and communication skills as evidenced by positions of increasing leadership within University-based research programs, and an ability to foster productive relationships among Universities, State, Federal agencies and the community.

Please apply by submitting a signed UA application with a letter of interest, a curriculum vitae with a complete record of academic training, professional leadership, publications, and student mentoring, a statement of leadership philosophy and vision for IAB, and names and addresses of five individuals who can be contacted for recommendations to **Professor Paul McCarthy, Chair, IAB Director Search, Rasmuson Library, P.O.Box 756800, University of Alaska, Fairbanks, AK 99775-6800. (907) 474-7224 (fydir@uaf.edu)**. The position is open until filled. Candidate reviews will start April 16, 2001. *UAF is an Affirmative Action/Equal Opportunity Employer and Educational Institution.*

NATIONAL CANCER INSTITUTE Division of Basic Sciences

SYNTHETIC ORGANIC CHEMIST or MEDICINAL CHEMIST

An investigator, tenure-track position is available in the Laboratory of Medicinal Chemistry (LMCh), Division of Basic Sciences (DBS), National Cancer Institute (NCI), National Institutes of Health (NIH) now operating in its new location in Frederick, Maryland. A recent effort at the NCI to foster drug discovery has been directed to cultivate the spontaneous formation of "molecular target teams" between principal investigators in biology and principal investigators in synthetic organic/medicinal chemistry. The recent explosion of novel and promising molecular targets identified as useful for the potential treatment of cancer demands greater integration between chemistry and biology. As a member of a "molecular target team" of his or her choosing, the scientist occupying this position is expected to play an active role in the design and synthesis of small molecules that will serve as tools to query and perturb a biological system in order to understand both normal and pathologic processes in their natural setting. The LMCh has state-of-the-art laboratory facilities that include access to two high field NMR instruments, three mass spectrometers and other supporting spectroscopies. In addition, the laboratory has an in-house molecular modeling mini-core facility with excellent expertise to support drug-design and database mining. Applicants should have a doctorate in synthetic organic chemistry or medicinal chemistry, and a record of publications demonstrating the ability to perform complex syntheses. The successful candidate should have strong communication skills to discuss scientific issues related to the formation of a "molecular target team" and to write scientific papers. Interested individuals should send a two-page statement of research interests and goals, a curriculum vitae and bibliography, a list of their five most significant publications, and three letters of reference to:

Mr. Tim Sakemiller
Building 578, Room 8
NCI-Frederick
P.O. Box B
Frederick, Maryland 21702-1201
phone (301) 846-5162
fax (301) 846-6053



Applications must be received or postmarked by April 20, 2001.

The National Cancer Institute is an Equal Opportunity Employer.

GLOBAL OPPORTUNITIES

Fellowship Program for Postdoctoral Research in Japan

In
Scientific, Technical, Engineering,
and
Medical fields
at National Research Institutes

Details available on web site:
<http://stafellow.jst.go.jp/index.html>

or

Department of International Affairs
Japan Science and Technology
Corporation (JST)



NREL National Renewable Energy Laboratory

The National Renewable Energy Laboratory (NREL) in Golden, Colorado is the U.S. Department of Energy's premier laboratory for renewable energy and energy efficiency research, development and deployment. Our mission is to lead the nation toward a sustainable energy future by developing renewable energy technologies, improving energy efficiency, advancing related science and engineering and facilitating commercialization. Our Biotechnology Division for Fuels and Chemicals has the following opportunities available:

- **Engineer I, One-Year Position (#778)**
Interpret and analyze data utilizing computer simulation models and economic spreadsheets and participate in conceptual process design.
- **Senior Biochemical Engineer, Regular, Full-Time Position (#779)**
Participate with and help lead a team of diverse researchers working to apply and demonstrate advanced integrated biomass conversion technologies.
- **Applied Biology Principal Scientist, Regular, Full-Time Position (#774)**
Manage and lead a large, diverse group of scientists focused on the identification and improvement of enzyme and microbial biocatalysts for the saccharification of biomass and subsequent conversion to fuels, chemicals and bio-based products.
- **Senior Molecular Biology Scientist, Regular, Full-Time Position (#775)**
Help lead research projects in the expansion of yeast as a platform microorganism for the production of fuels and chemicals from renewable resources.
- **Postdoctoral Researcher, One- to Three-Year Position (#2042)**
Participate in engineering processing research to demonstrate integrated biomass conversion technology.
- **Postdoctoral Research Scientist, One- to Three-Year Position (#2059)**
Participate with a team of researchers to develop efficient yeast and other microorganisms for the production of fuels and chemicals from renewable resources.

Our campus-style setting is located just west of Denver and is easily accessible from the Denver metro area and the foothills. For additional information and application instructions, please visit our website at www.nrel.gov.

NREL is an equal opportunity employer committed to diversity.

POSTDOCTORAL FELLOWSHIPS AT



Fellowships for the National Research Service Award Program of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH) at SUNY/Stony Brook are available in cell and molecular biology of metabolic diseases for candidates with Ph.D., Sc.D., M.D., or equivalent. This institutional postdoctoral training program is interdisciplinary, interdepartmental, and interinstitutional by design, supported by a regional interaction with Brookhaven National Laboratory and Cold Spring Harbor Laboratory. The program benefits from nearly 30 NIH-supported trainers with state-of-art research programs in areas of cell signaling relevant to diabetes, endocrine, and metabolic diseases. Current research opportunities include: **Nada Abumrad**- Membrane fatty acid transporters; **Wadie Bahou**- Proteases and endothelial cell pathology; **Dafna Bar-Sagi**- Ras signaling and growth control; **Eugenio Cersosimo**- Glucose regulation and counter regulation in diabetes; **Ira Cohen**- Molecular and cellular cardiovascular research; **Peter Garlick**- Controlling protein homeostasis; **Michael Frohman**- Phospholipase D and membrane vesicular trafficking; **Marie Gelato**- Pathogenesis of the insulin resistance and hyperlipidemia in HIV disease; **Michael Goligorski**- Angiogenesis, i NO, & diabetes; **Roger Johnson**- Adenylyl cyclase: isozyme-structures and selective inhibitors; **Jamie Konopka**- G-protein-coupled receptors signaling; **William Lennarz**- Signaling in development; **Craig Malbon**- GPCRs, G-proteins and insulin action; **Margaret McNurlan**- Insulin action in muscle; **Todd Miller**- Signal transduction by tyrosine kinases; **Andrew Morris**- Phospholipid and cell regulation; **Nicolas Nassar**- 3D structure of signal transduction components; **Mario Rebecchi**- Phospholipase regulation and polyphosphoinositide metabolism; **Nancy Reich**- Cytokine signaling; **Suzanne Scarlata**- Insulin receptor structure; **Stella Tsirka**- Neuronal-microglial interactions in the mammalian brain; **Hsien-yu Wang**- G-proteins & development; **Dave Williams**- Cell biology of lipoproteins and lipoprotein receptors, mechanisms of atherosclerosis. *U.S. citizens or permanent residents only are eligible for NIH supported fellowships.* Applicants should send a c.v., 3 references, and a brief letter of research interest to: **Craig C. Malbon, Director, DMDRC, Molecular Pharmacology, SUNY/Stony Brook, Stony Brook, NY 11794-8651; Fax: 631-444-7696; e-mail: craig@pharm.som.sunysb.edu.** *Equal Opportunity/ Affirmative Action Employer.*

Mayo Clinic Section of Scientific Publications Manuscript Editor Position

The Mayo Foundation and Mayo Clinic Section of Scientific Publications seeks a senior full-time manuscript editor at Rochester, MN, to fill a position resulting from a retirement. Candidates should have significant experience in editing peer-reviewed manuscripts, book chapters and NIH grants. A relevant Ph.D. or M.D. degree is desirable but not essential. This position supplements the current 8 biomedical editors and 24 editorial assistants and proofreaders. The Mayo Clinic Section of Scientific Publications is one of the largest academic departments of biomedical editing in the United States. Candidates will be expected to furnish examples of their work so that the edited manuscript can be compared with the unedited copy. Successful applicants will hold a faculty position at Mayo Medical School (level commensurate with experience). Excellent salary and benefits.

Send CV to:

Joseph G. Murphy, M.D., FRCPI
Chair, Section of Scientific Publications
Mayo Foundation and Mayo Clinic
Plummer Building, S-10
200 First Street, SW
Rochester, MN 55905
Fax: 507-284-2107
E-mail: murphy.joseph@mayo.edu



Mayo Foundation is an affirmative action and equal opportunity employer and educator.

RESEARCH (2 Positions)

Be part of the exciting scientific innovations at the Lindsley F. Kimball Institute of the New York Blood Center; one of the world's leading centers for basic and applied research in hematology and transfusion medicine. Currently, we offer the following excellent opportunities!

• SENIOR RESEARCH FELLOW (Molecular Parasitology)

Responsible for conducting immunological studies in individuals exposed to infection with *O. volvulus*, and to find correlates between immune responses and protection against infection. Support all the pre-clinical background work that is necessary for starting clinical trials and testing vaccines in humans against *O. volvulus*.

To qualify, Ph.D. is required. Minimum of (4) years experience in human cellular and humoral immunology. Experience in molecular techniques preferred. Must be an independent and creative individual. Good track record of research and productivity desired. Must be willing to travel to Africa on field trips.

• RESEARCH FELLOW (Plasma Proteins)

This position is in our research lab investigating structure-function of a newly discovered clotting factor. You will be part of a team evaluating the protein's interactions with cells and other elements of the vasculature, and will be responsible for constructing mutated proteins to identify critical interactive regions.

To qualify, we require expertise in techniques of modern molecular biology and protein chemistry. Doctoral degree, along with (5) years related lab research experience, high motivation and strong communication skills.

We offer a competitive salary, full benefits and some of the most talented researchers in the field today! Please submit resumes, indicating position your applying for, and salary requirements. Fax: 212/468-2082, email: careers@ccmail.nybc.org or forward resume to HR Dept-DV, New York Blood Center, 150 Amsterdam Avenue, New York, NY 10023. www.nybloodcenter.org. EOE M/F/D/V.

△ Lindsley F. Kimball
Research Institute
A Division of the New York Blood Center

**Post-Doctoral Research
Fellowship in Endocrinology at
the National Institutes of Health**

Post-doctoral position available in the Molecular Regulation and Neuroendocrinology Section, Clinical Endocrinology Branch, NIDDK at the NIH. Our laboratory studies transcriptional regulation by thyroid hormone and steroid hormone receptors and molecular mechanisms of thyroid cancer. We currently are using cDNA microarrays, transgenic and knock-out mice, green fluorescent proteins, and chromatin immunoprecipitation assays to study these areas. Strong background in molecular biology required. Applicants must have a Ph.D and/or M.D. as well as 0-5 years post-doctoral experience. Candidates must be U.S. citizens or permanent residents. Please send c.v. and three references to: Paul M. Yen, M.D. Mol. Regulation and Neuroendocrinology Section, Clinical Endocrinology Branch, NIDDK/NIH, Building 10, Room 8D12, 9000 Rockville Pike, Bethesda, MD 20892. Tel: 301-594-6797; Fax: 301-402-4136 e-mail: pauly@bdg10.niddk.nih.gov.

NIH is an Equal Opportunity Employer

**CATALAN INSTITUTION
FOR RESEARCH AND
ADVANCED STUDIES
(ICREA)**

ICREA is a foundation created by the Government of the Autonomous Community of Catalonia and the Catalan Research Foundation in order to reinforce and help expand research groups in Catalonia. Following a screening process now under way, research programs in any field will be the basis for an offer of **twenty-five new contracts for researchers.**

The specific fields and conditions of this offer will be posted in ICREA's webpage (www.fcr.es/icrea) by March 15, and the deadline for applications by individual researchers will extend to May 15.

 Generalitat de Catalunya
Departament d'Universitats, Recerca
i Societat de la Informació



**Marine Science and Ocean Engineering
at the University of New Hampshire**



Marine Science and Ocean Engineering at UNH incorporates a number of related research/outreach centers:

New Hampshire Sea Grant
Center for Coastal and Ocean Mapping
Cooperative Institute for New England Mariculture and Fisheries
Cooperative Institute for Coastal and Estuarine Environmental Technology
Ocean Process Analysis Laboratory in the Institute for the Study of Earth, Oceans, and Space
The Marine Program, including:
Center for Ocean Engineering, Center for Ocean Sciences, Center for Marine Biology

Director of the Marine Program

The UNH Marine Program provides the administrative framework for a significant portion of the University's marine research, education, and outreach activities. In addition to involvement in undergraduate and graduate academic programs, Marine Program faculty members conduct a variety of research projects, which are funded in excess of 4 million dollars per year by competitive grants and contracts and the Hubbard Endowment Fund. Numerous facilities support the functions of the Marine Program, including the Jackson Estuarine Laboratory, the Coastal Marine Lab, and the R/V Gulf Challenger.

Responsibilities: Reporting to the VP Research & Public Service and with guidance from the Marine Program Board, the MP Director will administer all aspects of the Program and its related facilities; and will advocate internally and externally for marine related research conducted at UNH. Essential functions include facilitating marine related faculty and academic program development; developing marine related research programs and projects; enhancing funding; providing general oversight for MP labs, vessels, and other physical facilities; coordinating MP activities with those of related programs; developing long term strategic plans and annual program plans; administering MP state and endowment funds and overseeing budgets; supervising MP administrative, vessel, and diving staff; increasing program visibility internally and externally; representing UNH on relevant regional and national groups and committees; establishing and administering policies on matters relating to the Program; chairing the MP Executive Committee and participating as a member of the Marine Program Board.

Qualifications: Ph.D. in life sciences, physical sciences, or engineering, with an emphasis on Marine science/engineering. Ten years experience in marine related research and development. Demonstrated ability to conceive and conduct original research. Demonstrated success in attracting external funding for research. Experience in program administration. Experience with institutions of higher education. Excellent oral and written communication skills. Ability to work with a variety of constituencies.

Salary: Competitive and commensurate with experience. This is a full time, 12 month position.

Application Review: Begins March 15 and will continue until position is filled. Start date as early as May 1, 2001. Applicants should send a letter of intent, curriculum vitae, and the names, addresses, and phone numbers of 3 references to: **Chair, MP Director Search Committee at the address below:**

**Director Of The NOAA/UNH Cooperative Institute For
New England Mariculture And Fisheries (CINEMar)**

Established by Memorandum of Understanding between the NOAA Office of Oceanic and Atmospheric Research (OAR) and UNH, the mission of CINEMar is to serve as a regional and national center in which representatives from universities, industry, federal and state programs, and non-governmental organizations may work together on issues in three broad program areas: 1) mariculture, 2) fisheries, and 3) marine policy.

Responsibilities: Reporting to the VP Research and Public Service, the CINEMar director will provide leadership in the planning and operation of the Institute. Essential functions include developing long-term strategic plans, annual program plans, annual operating budgets, and annual evaluation of activities; leading the UNH Open Ocean Aquaculture Demonstration Project that serves as the basis of the Institute's program in mariculture, and providing leadership and vision in developing the fisheries and marine policy components; assuming responsibility for the UNH physical facilities and equipment related to CINEMar; exercising responsibility for all business and financial matters relating to the Institute's operation; overseeing the research and associated administrative activities of UNH participants; supervising the CINEMar administrative and support staff; establishing an Advisory Board with representation from industry, academia, federal and state agencies and programs, and non-governmental organizations; working with UNH administrators and faculty in advancing partnerships with the appropriate industry, state and federal program, and NGO representatives to pursue Institute goals; and promoting the Institute through presentations and written material.

Qualifications: Ph.D. (or appropriate terminal degree) in a relevant field of science or engineering. Minimum of five years experience in fisheries and/or aquaculture research and development. Demonstrated ability to administer a large R&D program; and to successfully attract external research funding. Excellent oral and written communication skills. Supervisory experience. Ability to work effectively with a variety of constituencies.

Additional desirable qualifications: Demonstrated ability to work with the commercial fishing community and to conduct marine research in fisheries and/or aquaculture. Entrepreneurial experience in the aquaculture industry.

Salary: Competitive and commensurate with experience. This is a full time, 12 month, grant funded appointment.

Application Review: Begins March 15 and will continue until position is filled. Start date as early as May 1, 2001. Applicants should submit a letter of intent, curriculum vitae, and the names and contact information for 3 references to: **Chair, CINEMar Director Search Committee at the address below:**

c/o Office of the VP for Research and Public Service
Room 107, Thompson Hall, University of New Hampshire
Durham, NH 03824

UNH is committed to excellence through the diversity of its staff and encourages women and minorities to apply.

POSITIONS OPEN

UIC The University of Illinois at Chicago

VISION SCIENTIST

Applications are invited from candidates with a Ph.D. or M.D./Ph.D. to develop a research program in the visual sciences. The successful candidate would hold a primary **TENURE-TRACK APPOINTMENT** in the Department of Ophthalmology and Visual Sciences at the University of Illinois at Chicago. Applicants should have existing grant funding or the background and commitment to pursue federal funding for their research. Contemporary laboratory space and an attractive set-up/salary package are available. For fullest consideration, please respond with curriculum vitae and a list of three references by April 15, 2001, to: **Jose S. Pulido, M.D., M.S., Department Head, 1855 West Taylor Street (M/C 648), Chicago, IL 60612-7243.** The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR MICROBIOLOGY/MOLECULAR GENETICS

The Biology Department at Loyola College is seeking an Assistant Professor in microbiology/molecular genetics for a nine-month, tenure-track position starting on July 1, 2001. Loyola College is a liberal arts institution with a history of excellent teaching and a strong commitment to fostering the academic and personal development of students. Teaching responsibilities include three courses per semester. The successful candidate should possess strong interpersonal skills and will be expected to teach introductory-level cellular and molecular biology lecture courses and laboratory courses focusing on the process of science and upper-level courses in microbiology and molecular genetics. Candidates should be willing to teach seminar courses and nonmajor courses in biology on a rotating basis. The appointee is expected to develop an active research program involving undergraduate students. A Ph.D. in microbiology/molecular genetics or related discipline and undergraduate teaching experience is required. Desired qualifications include postdoctoral teaching and research experience and experience mentoring undergraduate students in research. To apply, send curriculum vitae; the names of three references; a list of courses that you would be interested in teaching; statement of research interests; and statement of your teaching philosophy to: **Chair, Microbiology/Molecular Genetics Search Committee, Biology Department, Loyola College, 4501 North Charles Street, Baltimore, MD 21210.** Applications must be received by April 1, 2001, for consideration. *Loyola College is a Jesuit Catholic institution that welcomes applicants from all backgrounds who can contribute to our unique educational mission. Loyola is an Equal Opportunity Employer that encourages applications from women and members of minority groups.*

FACULTY POSITION: BIOPHYSICS Princeton University

The Physics Department at Princeton University anticipates an opening for a **FACULTY MEMBER** with a research program in biophysics. The appointment may be made at either the tenured or the non-tenured level. Applications are especially invited from Physicists whose research program will strengthen the Department's participation in Princeton's planned multidisciplinary genomics research center. Interested applicants should send curriculum vitae and a description of their proposed research plan to: **Curtis Callan, Chair, Physics Department, P.O. Box 708, Princeton University, Princeton, NJ 08544.** Applicants should also have three reference letters sent to the same address. All application materials must be received by March 23, 2001. We are sorry that we cannot accept applications submitted by electronic mail. *Princeton University is an Affirmative Action/Equal Opportunity Employer and particularly welcomes applications from women and members of minority groups.*

POSITIONS OPEN

PROFESSOR AND HEAD Department of Biochemistry and Molecular Biology Louisiana State University Health Sciences Center New Orleans

Louisiana State University Health Sciences Center in downtown New Orleans invites applications and nominations for Professor and Head of the Department of Biochemistry and Molecular Biology in the School of Medicine. The successful applicant will be responsible for directing departmental activities in education, research, and service. This involves interactions with all schools of the Health Sciences Center. Research strengths within the Department currently include cancer cell biochemistry, neurochemistry, heart cell differentiation, and aging. Visit the Department's website: www2.medschool.lsuhs.edu/bioc. LSUHSC is presently undergoing a period of expansion with the recent addition of over 100,000 square feet of new research space and the purchase of state-of-the-art DNA microarray instrumentation, as well as supporting one of the top peptide core laboratories in the United States.

The successful applicant will have demonstrated significant accomplishments in teaching and research with a consistent record of extramural funding. Candidates should provide curriculum vitae including a full list of publications; past and current research support; and a brief statement of educational, research, service, and administrative interests. These materials, as well as a list of three to five potential references, should be forwarded by April 15, 2001, to:

**Dr. Ronald Luftig
Chair, Biochemistry Search Committee
LSU Health Sciences Center
Box P6-1
1901 Perdido Street
New Orleans, LA 70112**

LSUHSC is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minority candidates are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR OCEANOGRAPHER

The School of Marine Sciences (SMS) of the University of Maine seeks an interdisciplinary Oceanographer at the Assistant or beginning Associate Professor level (tenurable, nine-month position); available 1 September 2001 with strong background in geological processes, geochemistry, or physics of particle motion. The broad target area is particle dynamics. The candidate must have a Ph.D. in related fields and should have research and teaching interests in common with some current faculty within SMS or help to create bridges between SMS and other natural sciences units on campus. Specific examples of research areas to which the candidate might bridge include coastal sedimentation, benthic ecology, marine policy, biogeochemical cycling, the biology-physics interface, and climate change.

SMS was amalgamated into a school of about 40 faculty from several units on campus to foster collaboration among traditional subdisciplines of marine sciences and to include aquaculture, marine policy, and marine biology as well as oceanography. The successful candidate will contribute to this vision in research as well as graduate and undergraduate teaching.

Applications should comprise full curriculum vitae, a selection of (p)reprints and statement of research and teaching goals that demonstrate commitment to interdisciplinary interests, and a list of three references from whom we may request further details. Please send them to: **Chair, Oceanographer Search Committee, School of Marine Sciences, 214 Libby Hall, University of Maine, Orono, ME 04469-5741.** For further information, visit website: <http://www.ume.maine.edu/~marine/position.html>. Review will begin on 15 March 2001. *The University of Maine is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.*

POSITIONS OPEN



FACULTY POSITIONS

Medical Biotechnology Center

University of Maryland Biotechnology Institute

The Medical Biotechnology Center (MBC) of the University of Maryland Biotechnology Institute (UMBI) seeks to fill two tenure-track positions, one at the **ASSISTANT PROFESSOR** level (Position F3-0106) and the other at any level (Position F3-0107). The MBC is one of five research centers of the UMBI (website: <http://www.umbi.umd.edu>). The MBC is located on the campus of the University of Maryland, Baltimore, in a newly constructed state-of-the-art research facility.

We seek outstanding candidates with expertise in one or more of the following disciplines: molecular and cell biology, cellular physiology and biophysics, mathematical and computational biology, transgenics, or functional genomics/proteomics. The precise scientific discipline is less important than a demonstrated record of excellence, originality, and productivity in research. Applicants for **ASSOCIATE PROFESSOR** or **PROFESSOR** must have an externally supported research program and a substantial publication record.

Applicants should send a letter of application (please indicate position sought: Assistant, Associate, or Full Professor), curriculum vitae, a description of research accomplishments, and a two-page statement of research interests and objectives. Please include in the letter of application the names, mailing and e-mail addresses, and FAX and telephone numbers of three (for Assistant Professor position) to eight (Associate or Full Professor position) references. For the Assistant Professor position, references should be from at least two institutions; for Associate or Full Professor positions, from at least three institutions. Review of applications will begin March 30, 2001, and continue until two suitable candidates are selected.

Please send applications to: **Mr. T. Hughes, Coordinator, Faculty Search Committee, MBC, University of Maryland Biotechnology Institute, 725 West Lombard Street, Baltimore, MD 21201 U.S.A.** *MBC/UMBI is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.*

RESEARCH ASSOCIATE

Harbor-UCLA Research and Education Institute is an internationally acclaimed leader in research. We are seeking an individual to do basic molecular biology research (gene cloning and promoter analysis). To qualify for this position, you will need (1) Ph.D. and/or M.D. degree, (2) molecular biology and/or biochemistry background and experience. Must be computer literate with good English communication skills. Refer to Job Number 17. Salary depends on experience.

Résumés can be submitted using our website: www.rei.edu/hr or FAX: 310-222-3640. **Harbor-UCLA Research and Education Institute, Building N-12, 1124 West Carson Street, Torrance, CA 90502.** *Equal Opportunity Employer.*

RESEARCH POSTDOCTORAL

Study the control of cell proliferation by Myc and the Myc-related proteins Mnt and Mga. Projects include (1) the roles of Mnt and Mga in development and tumorigenesis using mouse models and (2) the transcriptional functions of Mnt and Mga. Requires a Ph.D. in molecular biology, biochemistry, or cell biology. Please send curriculum vitae, a representative publication, and at least two letters of reference to: **Peter J. Hurlin, Ph.D., Assistant Professor, Oregon Health Sciences University, c/o Shriners Hospital for Children, 3101 S.W. Sam Jackson Park Road, Portland, OR.** *Preemployment drug test/background investigation. Equal Opportunity Employer.*

**Postdoctoral Researcher Position
MAX-PLANCK-INSTITUT FÜR ASTRONOMIE**

Königstuhl 17
69117 Heidelberg
Germany
Email: hippler@mpia-hd.mpg.de
Web: www.mpia-hd.mpg.de

In the context of the European Research and Training Network (RTN) to study Adaptive Optics (AO) on Extremely Large Telescopes (40-100m) the MPA has an immediate opening for a postdoctoral researcher.

The primary goal of the RTN is to thoroughly investigate Natural Guide Star and Laser Guide Star tomography methods coupled with Multi-conjugate AO. Further details concerning the network are available at

<http://www.eso.org/instruments/aoelt> and http://www.mpia-hd.mpg.de/Public/MPIA/jobs/index_en.html.

This position will be available for approximately 3 years. The ideal candidate should have experience in adaptive optics.

Candidates must be non-German citizens of the European Union (EU) or associated member states with an age below 35 years.

Applications including CV, publication list, a 1 page statement of research interests, and three professional reference letters should be sent to Stefan Hippler at the above address.

*The MPA is an equal opportunities employer.
Women are encouraged to apply.*



**Mary Jean Mitchell Green Director
Cancer Research Center
Brown University**

Brown University is seeking nominations and applications for the position of Mary Jean Mitchell Green Professor and Director of the Cancer Research Center which will be located at the Lifespan Hospitals in Providence, RI. The Director will develop a strategic plan for the Cancer Research Center and provide leadership for the development of basic and translational cancer research programs. To foster the development of an integrated Cancer Research Center, all appointments in the clinical departments in basic or translational cancer research will be the concurrent responsibility of the Director. The Director will be responsible for fostering collaborative research with other departments at Brown University and its affiliated hospitals, in collaboration with the Brown University Oncology Group, the proposed Center for Genetics and Genomics, and the Center for Behavioral and Preventive Medicine. The Director will hold the academic rank of Professor at Brown University and will report to the Dean of Medicine and Biological Sciences and the Chief Executive Officer of Lifespan.

The candidates should hold a M.D., Ph.D., or M.D.-Ph.D. degree and have an outstanding record of accomplishment in research and teaching with international recognition. The candidate should have a successful record of peer-reviewed funding for basic or translational cancer research and professional service at a national level. Administrative experience in an academic environment, preferably in basic or translational cancer research, is required. Brown University provides an outstanding academic environment and the opportunity to build unique, interdisciplinary cancer research and educational programs. Women, minorities, and protected persons are encouraged to apply for this position. Brown University is an equal opportunity/affirmative action employer. Applications including a letter of interest, curriculum vitae, and the names of five references should be sent to: **Agnes B. Kane, M.D., Ph.D., Professor and Chair, Department of Pathology and Laboratory Medicine, Brown University, Box G-B5, Providence, RI 02912.** Applications will be accepted until the position is filled.

**Vice Provost for Research and Graduate Education
And
Dean of the Graduate School**

University of Connecticut, Storrs, Connecticut

The University of Connecticut, a land and sea grant, research extensive public university, invites applications for the position of Vice Provost for Research and Graduate Education and Dean of the Graduate School. As Vice Provost, the person will provide a leadership role in enhancing the research environment, oversee the activities and budgets of the Research Foundation, the Graduate School and some interdisciplinary centers and institutes of the University. Improving the record of externally funded research and training on campus is a high priority. As a member of the Chancellor's cabinet, he or she will provide advice on major policy issues, and provide leadership on those related to graduate education, basic research and research related to the economic interests of Connecticut business and industry. The person's ability to coordinate technology transfer policy and other University interactions with industry and government to benefit the economic development of the State of Connecticut is important. As Dean of the Graduate School, the individual will be a member of the University's Dean's Council, chair the Executive Committee of the Graduate Faculty Council, and be directly responsible for the administration and maintenance of standards of all post-baccalaureate education and research programs at the Storrs and Regional campuses of the University. The successful applicant will need to have the personal skills and background to interact effectively with academic faculty, graduate students, administrators and external publics.

Qualifications: Candidates should possess an earned doctoral-level degree and a distinguished record of accomplishment, especially in research, that will qualify them for the rank of Professor in an academic department of the University. They should also be able to demonstrate a proven record of leadership in administrative management, including supervision of personnel, budgetary responsibility and coordination of interdisciplinary activities.

The University of Connecticut is located in rural northeastern Connecticut, 25 miles east of Hartford, 80 miles southwest of Boston and 150 miles northeast of New York City. The University is in the midst of significant physical improvements made possible in part by UCONN 2000.

UConn 2000 is a \$1 billion, 10-year program to enhance, renew, and rebuild UConn's main campus in Storrs and the regional campuses. The program, enacted by the State Legislature in 1995 and signed into law by Gov. John Rowland, funds new building construction, renovations and additions to existing facilities, new equipment and infrastructure improvements.

Applications received by March 30, 2001, will be given first consideration, but all applications will be considered until the position is filled. We encourage applicants from underrepresented groups, including minorities, women and people with disabilities.

Please submit a resume, cover letter and names and addresses of five references to:

**Search Committee for V.P. for R. & G. E.
c/o Dean's Office - College of Liberal Arts & Sciences
241 Glenbrook Road - Unit 2098
Storrs, CT 06269-2098**

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



**University of
Connecticut**

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT

Environment Sciences Institute
Florida Agricultural and Mechanical University

Qualifications: The successful applicant will be required to develop a vigorous, externally funded research program well integrated into our graduate and undergraduate programs. The preferred candidate will have expertise in environmental and restoration remediation. Preference will be given to individuals with experience in innovative methodologies for remediation of chemical, biological radioactive contamination and the modeling of contaminant behavior in the environment. The minimum qualification for the position is the Ph.D. degree in environmental science; biology; chemistry; or a related physical, Earth, or engineering science. Nine-month, tenure-track appointment. Applicants should send curriculum vitae and the names and addresses of three references to: **Ms. Carrie Gavin, Director, Equal Opportunity Programs, Modular Unit Number 5 Wailes Street, Florida A&M University, Tallahassee, FL 32307.** Full-time equivalent: 100 percent, nine months. Salary class: \$55,000-\$61,800. Position number: 18536. Application deadline: April 16, 2001.

ASSISTANT OR ASSOCIATE PROFESSOR ENVIRONMENTAL BIOTECHNOLOGY

Qualifications: The successful applicants will be required to develop a vigorous, externally funded research program well integrated into our graduate and undergraduate programs. The preferred candidate will have expertise in the application of biomolecular methods to enhance the understanding of the effects of environmental contaminants on human and/or ecological systems. The minimum qualification for the position is the Ph.D. degree in molecular biology, biochemistry, immunology, microbiology, or a related field. Nine-month, tenure-track appointment. Applicants should send curriculum vitae and the names and addresses of three references to: **Ms. Carrie Gavin, Director, Equal Opportunity Programs, Modular Unit Number 5 Wailes Street, Florida A&M University, Tallahassee, FL 32307.** Full-time equivalent: 100 percent, nine months. Salary class: \$55,000-\$70,000. Position number: 17516. Application deadline: April 16, 2001.

ASSISTANT PROFESSOR OF PLANT PHYSIOLOGY

University of Puget Sound

Full-time, tenure-track position; begins fall term 2001. Teach a junior-level course in plant physiology; a freshman-level principles course that emphasizes cell biology, genetics and physiology; and a sophomore-level class in cell biology. All courses have both lecture and laboratories. Normal teaching load is one lecture and three to four laboratories each semester. Maintain an active research program involving undergraduates. Requires Ph.D. (A.B.D. considered) with emphasis in plant physiology and commitment to undergraduate teaching and liberal arts education. Submit interest letter; résumé; and three reference letters by March 23, 2001, to: **Plant Physiologist Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98406.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE ENVIRONMENTAL NEUROTOXICOLOGY

One-year renewable position available immediately to characterize the actions of pyrethroid insecticides on cloned mammalian voltage-sensitive sodium channel isoforms expressed in *Xenopus* oocytes. Ph.D. in a relevant discipline and prior experience with electrophysiological recording techniques required. Send curriculum vitae, publication list, and names of three references to: **Dr. David M. Soderlund, Department of Entomology, New York State Agricultural Experiment Station, Cornell University, Geneva, NY 14456.** E-mail: dms6@cornell.edu. Cornell University is an Equal Opportunity/Affirmative Action Employer and Educator.

POSITIONS OPEN

CHAIR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY University of North Dakota

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of Chair of the Department of Biochemistry and Molecular Biology. We seek an outstanding Medical Scientist with a strong research record in an area of biochemistry and molecular biology who has a proven ability to obtain extramural support. The successful candidate will complement, expand, and strengthen existing areas of research in the Department and will be expected to participate in medical, graduate, and allied health education and therefore must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties.

The Chair will oversee a department whose active research interests include enzyme regulation, protein-protein interactions, cyclic nucleotide interactions, drug resistance, transporter proteins, mitochondrial enzymes, effects of oxidative stress, protein phosphorylation, and gene regulation. The Department offers M.S., Ph.D., and M.D./Ph.D. degrees and is involved in the education of medical students. Further information is available at website: <http://www.med.und.nodak.edu/bimnd/biochem.html>. Review of applications will begin immediately and the search will remain open until the position is filled. Applicants should submit detailed curriculum vitae; a statement that addresses administrative philosophy, research goals, and teaching interests; and the names and addresses of three references to:

Dr. Roger Melvold
Professor and Chair of the Department of
Microbiology and Immunology
and Chair of the Search Committee
c/o Office of the Dean
School of Medicine and Health Sciences
University of North Dakota
Box 9037
Grand Forks, ND 58202-9037

The University of North Dakota is an Equal Opportunity/Affirmative Action Institution.

NIH-NRSA POSTDOCTORAL TRAINEE POSITIONS in marine biomedical sciences. Positions are available immediately and are renewable for up to three years based on satisfactory performance and NRSA eligibility. Applicants must be U.S. citizens or permanent residents. Stipend is set by NIH depending on number of years since the Ph.D., starting at \$26,916. Priority given to applicants just finishing or recently receiving their Ph.D. All applicants whose research interests match center research themes will be considered (see website: <http://www.niehs.nih.gov/centers/center/mia-ctr.htm>), but we particularly seek applicants in the areas of aquatic toxin effects on ion channels, biosynthesis of natural products, and epidemiology of marine toxin-related diseases. Send curriculum vitae, transcripts (unofficial okay) of undergraduate and graduate education, and three letters of recommendation using the form available at website: <http://www.as.miami.edu/rgawley/NRSA-Ref-T32.pdf> to: **Professor Robert E. Gawley, Department of Chemistry, University of Miami, P.O. Box 249118, Coral Gables, FL 33124.** The University of Miami is an Equal Employment Opportunity Employer.

EPiX Medical, a specialty pharmaceutical company engaged in developing targeted contrast agents for MRI, seeks **CHEMIST-STAFF SCIENTIST**, discovery chemistry. Independently design, execute, and interpret complex experiments and analytical procedures to address specific research- and development-related scientific objectives. Please send résumé to: **Human Resources, EPiX Medical, 71 Rogers Street, Cambridge, MA 02142.** FAX: 617-250-6041. Website: www.epixmed.com. Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS PHARMACOLOGY AND TOXICOLOGY Brody School of Medicine at East Carolina University

Tenure-track faculty positions are available in the Department of Pharmacology. Under new leadership, the Department will use these positions to strengthen the area of toxicology and expand the technological and molecular biological base of the Department. Appointment rank is open and dependent upon the qualifications of the applicant with minimum requirements for these positions of a Ph.D. or equivalent degree in pharmacology, toxicology, or a related field and at least two years of postdoctoral experience. Researchers with interests in molecular neurotoxicology or neuropharmacology are especially encouraged to apply. Successful candidates are expected to establish/maintain independent, extramurally supported research programs; participate in the teaching mission and graduate student training program of the Department; and contribute to the service activities of the Department. Candidates qualifying for **ASSOCIATE** or **FULL PROFESSOR** appointments must have a strong history of current extramural funding and evidence of active contribution to graduate training and professional education. The positions offer exciting opportunities for interdisciplinary research interactions both within the Department of Pharmacology and with other appropriate departments and faculty at the Brody School of Medicine and at East Carolina University. Additional information about the Department and the University can be found at websites: <http://www.med.ecu.edu/pharm> and <http://www.ecu.edu>, respectively. Applications will begin to be reviewed by April 1, 2001, and will be accepted until the positions are filled. Send curriculum vitae, statement of research interests, teaching experience, and the names and e-mail addresses (if available) for three professional references to:

Dr. David A. Taylor, Professor and Chair
Department of Pharmacology
Brody School of Medicine
East Carolina University
Greenville, NC 27858-4354

East Carolina University is an Equal Opportunity Employer and welcomes applications from women and minority candidates.

POSTDOCTORAL POSITIONS

Immediate positions are available for **POSTDOCTORAL FELLOWS** to study regulation of apoptosis in T lymphocytes. Must have a Ph.D. with solid foundation in molecular biology or biochemistry. Send curriculum vitae, a summary of previous research, and three letters of recommendation to:

Hannah Rabinowich, Ph.D.
Department of Pathology
University of Pittsburgh
W-952 BST
200 Lothrop Street
Pittsburgh, PA 15213

POSTDOCTORAL POSITION available for Synthetic Chemist in area of solution phase peptide and peptide mimetic chemistry. For development of novel antibacterial agents. Requires Ph.D. and relevant experience. Please send curriculum vitae and the names of three references to: **William Gutheil; e-mail: gutheilw@umkc.edu or mail to: School of Pharmacy, University of Missouri Kansas City, 5005 Rockhill Road, Kansas City, MO 64110.** UMKC is an Affirmative Action/Equal Employment Opportunity Institution.

POSTDOCTORAL ASSOCIATE positions are available at the University of Colorado Health Sciences Center to study protein structure and function. Candidates should have a Ph.D. and experience in NMR spectroscopy and biochemistry. Starting salary commensurate with experience. Please submit a letter of interest and curriculum vitae to: **Dr. Michael Overduin, 4200 East Ninth Avenue, Box C-236, Denver, CO 80262 U.S.A.** E-mail: Michael.Overduin@UCHSC.edu. UCHSC is committed to Equal Opportunity and Affirmative Action.

NATIONAL CANCER INSTITUTE Division of Basic Sciences

POSITIONS AVAILABLE: Mouse Cancer Genetics

The Mouse Cancer Genetics Program (MCGP), Division of Basic Sciences, of the National Cancer Institute (NCI)-Frederick, National Institutes of Health invites applications from outstanding candidates for two full-time, **TENURE-TRACK POSITIONS** with interest in mouse cancer genetics. The goal is to create a large highly interactive group of independent investigators working in research areas relating to mouse cancer genetics. The successful applicants will have access to exceptional animal facilities as well as state-of-the-art genomics, transgenic and mouse knockout facilities, and will be provided with newly renovated research space at the NCI campus in Frederick, MD. Candidates must have a Ph.D. or M.D. or the equivalent and at least two years of postdoctoral training. Applicants with research experience in one or more of the following areas are particularly encouraged to apply: mouse cancer models, mouse cancer genetics, mouse modifier screens/cancer QTLs, mouse mutagenesis (insertional/chemical), or new genomic/genetic technologies applicable to mouse cancer genetics.

A two-page statement of research interests and goals in addition to three letters of recommendation and a curriculum vitae should be sent to:

Valerie Turnquist
Building 578, Room 24
NCI-Frederick
P.O. Box B,
Frederick, MD 21702
phone (301)846-5011
fax (301)846-6053.



Applications must be received by March 30, 2001.

The National Cancer Institute is an Equal Opportunity Employer.

UCDAVIS



Postdoctoral Positions. An NIH-funded Training Grant in Fertilization and Early Development has two postdoctoral positions available immediately for a US citizen or permanent resident working with one of the 10 trainers at UC Davis. These laboratories are highly interactive and enjoy state-of-the-art instrumentation. The faculty and research areas include:

Gary Anderson (<http://animalscience.ucdavis.edu/faculty/Anderson/>)

In vitro development of mammalian embryos and stem cells

Trish Berger (<http://animalscience.ucdavis.edu/faculty/Berger/>)

Porcine sperm-oocyte membrane interactions

Gary Cherr (gncherr@ucdavis.edu)

Sperm activation by egg-derived molecules in fish and mammals

Jerry Hedrick (<http://www.mcb.ucdavis.edu/faculty/>)

The molecular structure and fertilization function of the egg extracellular matrix

Stanley Meizel (<http://cellbio.ucdavis.edu/dept/Meizel1999.html>)

Steroid-initiated acrosome reaction in human sperm and neurotransmitter receptor/Cl⁻ channels in mouse and human sperm acrosome reaction

Diana Myles (<http://www.mcb.ucdavis.edu/faculty-labs/myles/>)

Molecular mechanism of sperm-egg fusion

Stuart Meyers (<http://www.vetmed.ucdavis.edu/apc/People/Meyerlab/index.html>) **Mammalian sperm cell biology: Cell signaling and cryopreservation**

Richard Nuccitelli (<http://www.mcb.ucdavis.edu/faculty-labs/nuccitelli/index.htm>) **Mechanisms of frog egg activation**

Paul Primakoff (<http://cellbio.ucdavis.edu/dept/Primakoff1999.html>)

Molecular mechanisms of mammalian fertilization

Lesilee Rose (<http://www.mcb.ucdavis.edu/faculty/>)

Genetic analysis of cell division orientation in *C. elegans*

Contact individual faculty by Email, or send a CV, statement of professional goals, and the names and addresses of three references to: **Postdoctoral Search, Fertilization and Early Development Training Grant, Molecular and Cellular Biology, University of California, Davis, CA 95616-8535.**

The University of California is an Equal Opportunity employer and we encourage minority and female applicants.

Providing Innovative Technologies

To Help All People Live Healthy Lives

BD is a world leader in the development and manufacture of diagnostic equipment/reagents and medical devices. The BD Worldwide Medical Toxicology Department, located in Research Triangle Park, NC, is responsible for all biocompatibility and preclinical toxicology evaluations of BD medical devices/materials, as well as worldwide consultation on relevant issues.

Manager, Biological Sciences, BDWMT

This position, reporting to Director, Worldwide Medical Toxicology, will have the following primary responsibilities: 1) supervision of Study Directors and support staff in the conduct of routine GLP-compliant studies and experimental toxicology studies; 2) oversight of group activities in terms of test management and overall performance; 3) participation in internal and external project teams and interaction with BD clients worldwide in areas of technical expertise, including address of related product regulating issues; 4) communication of corporate evaluation policies, development and management of distributed testing programs; 5) participation in industry working groups involved in development of international standards and regulations.

A PhD in Toxicology or a related field with 7-10 years of professional work experience (or equivalent combination of training/experience) is required. Experience with a variety of toxicology laboratory techniques and principles, both in vivo and in vitro, is also required. Specific experience in the medical device industry, knowledge of GLP regulations, prior staff and project management experience and board certification (or eligibility) in toxicology is preferred. This position will include significant interactions with both internal and external entities, requiring excellent scientific communication skills.

We provide competitive salaries and comprehensive benefits. Please forward your resume to: **BD Technologies, 21 Davis Dr., P.O. Box 12016, Research Triangle Park, NC 27709; or e-mail to: BDThr@bd.com** Becton Dickinson is an equal opportunity/affirmative action employer.

Visit our web site at www.bd.com



POSITIONS OPEN

PRECLINICAL FACULTY

Lake Erie College of Osteopathic Medicine (LECOM) invites applications to fill full-time, Doctoral-level preclinical basic science positions in anatomy, microbiology, biochemistry, and pharmacology for the 2001-2002 academic year. Opportunities for teaching are available as LECOM expands both its on-site facilities and its osteopathic medical educational programs to include lecture/discussion, problem-based, and independent studies learning pathways. The successful candidate will possess a strong desire to teach and the ability to use innovative 21st century teaching techniques. Rank will be based on qualifications and prior medical school teaching experience; salary and benefits are competitive. Applicants should forward curriculum vitae, a summary of career objectives, teaching interests and philosophy, current and future research plans, and at least three professional letters of recommendation to: **Silvia M. Ferretti, D.O., Provost and Vice President of Academic Affairs, Lake Erie College of Osteopathic Medicine, 1858 West Grandview Boulevard, Erie, PA 16509.** Applications will be screened immediately and will continue to be accepted until all positions are filled. LECOM is an Affirmative Action/Equal Opportunity Employer and encourages female and minority candidates.

ASSISTANT PROFESSORS/INSTRUCTORS OF BIOLOGY

(21UC0461) University of Cincinnati Raymond Walters College, a two-year open-access college, invites applications for two **TENURE-TRACK FACULTY POSITIONS** beginning September 1, 2001. One position will include overseeing the Biological Laboratory Technology program. Teaching responsibilities may include courses in introductory biology, biological laboratory technology, pharmacology genetics, and possibly other areas of interest.

Minimum qualifications: Master's degree. The ideal candidate will have undergraduate teaching experience and a strong commitment to teaching. Rank is commensurate with education and experience.

Send curriculum vitae including a cover letter; statement of teaching philosophy; and three letters of recommendation by March 30, 2001, to: **Dr. William Garnett, Chair, Biology Department, Raymond Walters College, 9555 Plainfield Road, Cincinnati, OH 45236-1096.**

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Women, minorities, disabled persons, and Vietnam-era and disabled veterans are encouraged to apply. UC is a smoke-free environment.

BIOCHEMIST: one-year faculty position; Lawrence University Chemistry Department. Applications are sought for a temporary appointment for the 2001-2002 academic year in an undergraduate liberal arts environment that values excellent teaching and emphasizes close faculty-student interaction, including undergraduate research. The Department maintains an extensive array of instruments; interacts closely with the college's departments of Biology, Physics, and Geology; and is the primary occupant of a new building. The appointee will teach a laboratory-based biochemistry course and general chemistry. A Ph.D. is required. More information is available at [website: www.lawrence.edu/dept/chemistry/](http://www.lawrence.edu/dept/chemistry/). Send curriculum vitae, undergraduate and graduate transcripts, teaching and research statements, and three letters of recommendation to: **Jerrold P. Lokensgard, Chair, Department of Chemistry, Lawrence University, Appleton, WI 54912-0599.** Review of applications will begin April 2, 2001. (A tenure-track search is anticipated in fall 2001.) *Lawrence University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available to develop HPV, HIV, and Alzheimer's disease vaccines and characterize tumor resistance against cellular immune response. Cellular immunology and molecular biology experience required. Send curriculum vitae to: **Dr. L. Qiao, Department of Microbiology/Immunology, Loyola University Medical Center, 2160 South First Avenue, Building 105, Maywood, IL 60153.** E-mail: lqiao@luc.edu.

POSITIONS OPEN

FACULTY POSITIONS CELLULAR AND MOLECULAR IMMUNOLOGY

Department of Microbiology and Immunology Indiana University School of Medicine

The Department of Microbiology and Immunology ([website: www.iupui.edu/~micro/](http://www.iupui.edu/~micro/)) is seeking motivated candidates with a Ph.D. or M.D./Ph.D. degree for faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level in the areas of tumor immunology, innate, mucosal, and/or autoimmunity.

Faculty members will be expected to pursue independent programs in original basic research, secure external grant support, and participate in teaching graduate and medical students. A history of past and present grant support is a prerequisite for the Associate/Full Professor positions.

A competitive start-up package is available including new laboratory space. The environment is highly interactive and productive with close ties on campus to other basic science and medical departments and research centers, including the Walther Oncology Center ([website: www.iucc.iu.edu/](http://www.iucc.iu.edu/)), the Wells Center for Pediatric Research ([website: www.iupui.edu/~wellstr/](http://www.iupui.edu/~wellstr/)), the Diabetes Center ([website: www.diabetes.iu.edu/training/](http://www.diabetes.iu.edu/training/)), and the Sexually Transmitted Disease Center ([website: http://www.medicine.iu.edu/research/1212research.html](http://www.medicine.iu.edu/research/1212research.html)). Academic credentials and experience will determine faculty rank.

Interested candidates should send their curriculum vitae; description of research goals; and names, addresses, telephone and FAX numbers, and e-mail addresses of at least three references to:

Hal E. Broxmeyer, Ph.D.

Chairman and Professor

**Department of Microbiology and Immunology
Scientific Director, The Walther Oncology Center
Indiana University School of Medicine
635 North Barnhill Drive, Room 255
Indianapolis, IN 46202-5120 U.S.A.**

Indiana University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR: The School of Veterinary Medicine at Tufts University invites applications for a faculty position in the Department of Biomedical Sciences. Primary responsibilities include teaching and research. The incumbent will be joining a well-established multidisciplinary research program concerned with many and diverse aspects of enteric infections of the normal and the immunodeficient host. Candidates must have D.V.M. (or equivalent) and/or Ph.D. degree with a strong background in pathophysiology, immunopathology, and/or pathogenesis of infections of the gastrointestinal tract. Review of applications will begin immediately, and the search will continue until the positions are filled. Interested applicants should submit a letter of application with a statement of career goals, curriculum vitae, and the names of three or more references to: **Dr. Sawkat Anwer, Professor and Chair, Department of Biomedical Sciences, Tufts University School of Veterinary Medicine, 200 Westboro Road, North Grafton, MA 01536.** *Tufts University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available immediately to study the structure and function of modular domains in cellular signal transduction within the context of proteins involved in neurogenesis or in the pathogenesis of certain diseases. Applicants should have a recent Ph.D. degree and have demonstrated experience in biochemistry, molecular, and/or cellular biology. Send or e-mail curriculum vitae and the names of three references to: **Dr. Shun-Cheng Li, Department of Biochemistry, Faculty of Medicine and Dentistry, University of Western Ontario, London, Ontario N6A 5C1 Canada.** E-mail: sli@julian.uwo.ca; FAX: 519-661-3175.

POSITIONS OPEN

ASSISTANT PROFESSOR POSITION Bioinformatics or Computational Biology

The Division of Life Sciences at The University of Texas at San Antonio invites applications for a tenure-track Assistant Professor faculty position in bioinformatics, proteomics, genomics, or other computational approaches to analyzing cellular systems (pending budget approval). The Division of Life Sciences consists of 24 faculty members and offers a Bachelor's degree in biology, Master's degrees in biology and biotechnology, and a Doctoral degree in biology with an emphasis in neuroscience plus a planned second emphasis in cell and molecular biology. Computational biology is a major research focus at UTSA, with support from the Cajal Neuroscience Research Center and participating faculty in the Divisions of Life Sciences and Computer Sciences. The new faculty member will have the opportunity to be part of a developing bioengineering/biotechnology program for the South Texas area to be centered in a planned 160,000-square-foot Bioengineering/Biotechnology building at UTSA. Responsibilities include teaching courses offered either at the UTSA Downtown Campus or the main campus, research, and administrative service. Required qualifications: Applicants are required to have a Doctoral degree in biology or a related discipline and postdoctoral experience. Applicants must submit a letter of application; current curriculum vitae; copies of recent publications; a research statement; teaching interests and experience; and the names, postal addresses, e-mail addresses, and telephone numbers of three references. Applications and all required materials must be received with a FAX or postmark date no later than March 16, 2001. *Applicants who are not U.S. citizens must state current visa and residency status.* Address applications to: **Dr. Joe L. Martinez, Jr., Director, Division of Life Sciences, The University of Texas at San Antonio, 6900 North Loop 1604 West, San Antonio, TX 78249.** FAX: 210-458-5658. *UTSA is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR AGING RESEARCH

The Geriatric Research, Education, and Clinical Center (GRECC) at the Veterans Administration Palo Alto Health Care System and Stanford University School of Medicine are seeking highly qualified applicants for the position of **ASSISTANT or ASSOCIATE PROFESSOR** (University tenure track) to pursue research in the study of cellular and molecular mechanisms of aging or age-related diseases. Of particular interest is the application of genetic and *in vitro* models to the studies of aging. Applicants must have an M.D. or equivalent degree; must possess current, full, and unrestricted license to practice medicine, and must be Board certified by an American specialty board. Individuals should have a strong record of accomplishment and a solid publication record in a relevant biomedical field. In addition to conducting an active research program, it is expected that the appointee will participate in clinical and educational activities within an appropriate clinical service, supervising residents and medical students and participating in departmental and medical center teaching programs. The appointee will also be expected to play a leadership role in the greater community of research in aging at Stanford University. Applicants should send their curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to:

**Thomas A. Rando, M.D., Ph.D., Director
GRECC (182B)**

**VA Palo Alto Health Care System
3801 Miranda Avenue
Palo Alto, CA 94304**

VA Palo Alto is an Equal Opportunity Employer. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

POSTDOCTORAL FELLOW

Molecular and Cell Biology of Plasmodium Gametocytes

A position is available immediately for a Postdoctoral Fellow with an interest in molecular mechanisms involved in the differentiation and maturation of malaria gametocytes. Methodologies include purification of gametocyte-infected erythrocytes, cloning and expression of gametocyte specific genes, characterization of distribution and function of the corresponding gene products using flow cytometry, in situ hybridization, immunocytochemistry, and confocal microscopy. Individuals with a strong background in cell biology and/or molecular parasitology are encouraged to apply.

Please forward a curriculum vitae, summary of past accomplishments, and the names of three references, to: **Ute Frevert, DVM, PhD, NYU School of Medicine, Department of Medical and Molecular Parasitology, 341 E. 25th Street, New York, NY 10010. Phone: 212-263-6755. E-mail: freveu01@popmail.med.nyu.edu. EOE.**



Bioinformatics

Axon Instruments, a leading manufacturer of array scanners, image analysis and related bioinformatics software, seeks a qualified candidate to join the Scientific Applications Department.

The applications scientist will support our expanding product lines; provide application solutions to the scientific community for hardware and software products; troubleshoot complex technical problems, demonstrate products at scientific meetings and lead a product training course; help develop new products; write and edit technical materials; and contribute to market research and product evaluation.

The ideal candidate will possess a Ph.D. in a biological discipline with a solid background in bioinformatics or biostatistics (experience with imaging technology is desirable); excellent analytical, organizational & written/verbal communication skills; and the ability to multi-task in a team-oriented environment. Approximately 20% travel is required.

We offer a technologically innovative atmosphere, opportunities for professional growth, a competitive salary, and an attractive benefits package. Please mail, FAX, or e-mail a cover letter and résumé/CV to: **Human Resources, Attn: Job# SC10302-SAB, Axon Instruments, Inc., 1101 Chess Dr., Foster City, CA 94404, U.S.A.; e-mail: jobs@axon.com. Principals only. EOE/AA**



www.axon.com

Aventis Pharmaceuticals



Our challenge is life.

Aventis Pharmaceuticals is the U.S. pharmaceuticals subsidiary of a newly created world-class life sciences company, Aventis SA, which was created by the merger of Hoechst AG and Rhône-Poulenc SA. Aventis Pharmaceuticals is an innovative company committed to extending and enhancing the quality of life for patients throughout North America and the world. We are accomplishing this through the discovery, development, manufacture and sale of prescription products that fulfill unmet medical needs.

JOB TITLE: Associate Analytical Development Scientist: Chemometrics

JOB DUTIES: Developing and validating qualitative and quantitative chemometric methods based on spectroscopy, especially near infrared spectroscopy. These methods allow fast, cheap but reliable analyses of raw materials, intermediate products and final products.

Implementing such methods for quality control laboratory to reduce cycle time, and for identification, process control, or other purposes in compliance with all company and regulatory requirements. The use of chemometrics for improved productivity and efficiency is dictated by global competitive pressures as well as social obligation to provide pharmaceuticals to the public at lower cost.

Documenting and reporting results of development work, investigations, and test results through written scientific technical reports and communications and providing training and information to potential users of the technology in a global company and assisting others to use chemometric method to extract useful information from experimental data.

MINIMUM REQUIREMENTS: Ph.D. degree in Analytical Chemistry. Academic work must include training/experience in the following:

- Chemometric methods (partial least square regression methods, principal component analyses and neural networks).
- Development of data evaluation methods using C/C++ programming, Matlab programming and Visual Basic for Application (VBA).

STARTING SALARY: \$63,000.00 per year for a forty-hour week.

The Job Order for the Job Opportunities is 253172. Send resumes to:

**Darlene Truelove
Division of Workforce Development
1411 Main Street
Kansas City, MO 64105**

NOTE: MUST HAVE PROOF OF LEGAL AUTHORITY TO WORK IN THE UNITED STATES.

Aventis Pharmaceuticals is proud to be an equal opportunity employer committed to a diverse workforce.

POSITIONS OPEN

FACULTY POSITION EARTH AND MARINE SCIENCES

The Division of Natural Sciences and Mathematics at Dowling College invites applications for an anticipated tenure-track position beginning September 2001. Responsibilities include teaching courses in earth and marine sciences and environmental science. Candidates will be expected to develop a strong undergraduate research program and demonstrate commitment to excellence in teaching as well as coordinate the Department of Earth and Marine Sciences. Ample opportunities are available for research-released time from a 12-credit semester teaching load. A Ph.D. is required. Candidates should submit a letter of application, curriculum vitae, statement of teaching philosophy, description of research interests, transcripts, and three letters of recommendation to:

Earth and Marine Sciences Search Committee
c/o Director of Human Resources
Dowling College
Oakdale, NY 11769-1999
E-mail: carrollb@dowling.edu

An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL FELLOWSHIP DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

Develop new technologies for the genomewide screening of polymorphisms and mutations in cancer samples using modern molecular biology techniques and DNA microarrays. Successful candidate will be exposed to recent developments in the field of genomics plus the Harvard Medical area. Ph.D. in molecular biology/biochemistry. Experience in mutation detection is an advantage. Full benefits/salary commensurate with experience. Curriculum vitae to: **G. Mike Makrigiorgos, Ph.D., Room JF519, Dana-Farber, 44 Binney Street, Boston, MA 02115 U.S.A.** E-mail: mmakrigiorgos@partners.org.

STAFF SCIENTIST

A position is available for a Staff Scientist to supervise technical staff, oversee growth and analysis of biohazardous organisms, and write technical reports and proposals. This position requires the employee to work in the BSL-3 and BSL-4 laboratories. A Ph.D. in a biological science is required. Evidence of independent research capabilities is required. A bacteriology or virology background is required. A thorough knowledge of protein expression, purification, and antibody production/ELISA development is necessary. Strong organizational and communication skills are a must. Some travel will be required (10%). Must have a valid driver's license and meet Southwest Foundation for Biomedical Research driving standards. *Must be a U.S. citizen.* Must be able to pass a postoffer background check for a security clearance. Please send curriculum vitae and three letters of reference to: **Director of Human Resources (00-048S), Southwest Foundation for Biomedical Research, P.O. Box 760549, San Antonio, TX 78245-0549.** Website: www.sfbr.org. Equal Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITION** in diabetes and obesity research. Join an energetic laboratory focused on the regulation of glucose homeostasis and obesity by the transcription factor C/EBP β . (*JCI* 103:207, 1999; *JBC* 274:13033, 1999; *JBC* 275:14173, 2000). Research involves transgenic and viral approaches to understand how C/EBPs regulate energy metabolism and gene expression in the liver and their role in regulation of obesity. Applicants must have expertise in cell signaling, endocrinology, and molecular biology of diabetes. Send curriculum vitae and three references to: **Rebecca Walter, 4200 East Ninth Avenue, B-195, Denver, CO 80262.** E-mail: rebecca.walter@UCHSC.edu.

POSITIONS OPEN

GRA/MCG EMINENT SCHOLAR IN GENOMIC MEDICINE

The Medical College of Georgia (MCG), Georgia's Health Sciences University, seeks to recruit a senior biomedical **RESEARCH SCIENTIST** of national and international standing to take up a new Chair in genomic medicine. This prestigious Chair is endowed jointly by MCG and the Georgia Research Alliance (GRA) through the nationally acclaimed GRA Eminent Scholar program. The GRA invests in research infrastructure development at academic research campuses across the state of Georgia through endowed Chairs and capital investment in core research support facilities designed to stimulate translational biomedical research leading to improved clinical therapies and opportunities for technology transfer to industry.

The individual appointed to this senior faculty position will be primarily committed to the MCG research mission, which is organized into four broad areas of cancer, cardiovascular, neurological, and inflammation research encompassing MCG faculty strengths in 10 themed research programs. These are described in more detail on the MCG website: <http://www.mcg.edu/research.htm>. As a result of substantial investment in new core facilities and research centers on the MCG campus, a wide range of opportunities is available to develop research programs that build on existing MCG research strengths. Hence, we seek candidates who have a proven track record of funded research that complements several of these research programs. A commitment to developing clinically related research initiatives utilizing new genomic and proteomic technologies for therapeutic benefit and commercialization will be advantageous. Excellent core research facilities, including DNA microarray, molecular biology, electron microscopy, transgenic and knockout mouse, transgenic zebrafish, flow cytometry, proteomics/mass spectrometry, biotelemetry, and cell imaging facilities are already established at MCG. Details of these core facilities and the services they offer to MCG research faculty can be reviewed at the website listed above. In addition, a human tissue-banking core facility designed to facilitate research based on genomic and proteomic approaches to clinical sample analysis is also planned to complement this major initiative.

Candidates for the Eminent Scholar chair in genomic medicine should have a proven track record of well-funded and productive research sustained over a number of years. Some experience of translational research and commercialization would also be an advantage. The individual appointed to this senior faculty position will hold academic appointments in one or more clinical or basic science departments and research centers according to their research interests.

Applications for this position should be sent to: **Ms. Shirley Schulte, Office of the Vice President for Research, Medical College of Georgia, 1120 15th Street, CJ-3315, Augusta, GA 30912-7620.** E-mail: sschulte@mail.mcg.edu. Additional details about this position may be obtained from the **Chair of the Search Committee, Andrew Mellor, Ph.D.,** at the following e-mail address: amellor@mail.mcg.edu. Affirmative Action/Equal Employment Opportunity, Equal Access, P.O. Number E-01157467, USG Applicant Clearinghouse Number 40462.

MICROBIOLOGY POSTDOCTORAL POSITION

Postdoctoral position available effective April 1, 2001, in the Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine. Research involves gene expression in *Pseudomonas aeruginosa* biofilms. Candidates should have prior experience with bacterial genetics and a strong work ethic. Salary is very competitive. Send curriculum vitae and names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Daniel J. Hassett, Associate Professor, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0524.**

POSITIONS OPEN

TENURE-TRACK POSITIONS IN GENETIC MEDICINE Cornell University Weill Medical College

As part of a significant enhancement of its basic biomedical science research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is undertaking a major program initiative in the area of genetic medicine and is seeking to recruit **TENURE-TRACK FACULTY** at all levels to its newly formed Institute of Genetic Medicine. We are especially interested in candidates with a focus on the genetic control of differentiation of embryonic stem cells to specific lineages, genetic reprogramming of adult differentiated cells, somatic cell nuclear transfer, and microarray assessment of mammalian gene expression. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential of establishing a vigorous, independent research program. Candidates for senior positions should have an outstanding publication record as well as substantial recent success in obtaining peer-reviewed grant support. Appointment of these independent, tenure-track faculty is anticipated in the Institute of Genetic Medicine, directed by **Ronald G. Crystal, M.D.**

Recruited faculty will receive generous start-up support; will occupy newly constructed laboratories; and will have access to the newly completed, 12,000-square-foot Arthur and Rochelle Belfer Gene Therapy Core Facility. Candidates may participate in the Graduate School of Medical Sciences Program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D.-Ph.D. Program, which also includes faculty from The Rockefeller University.

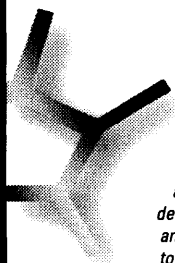
Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: **Jennifer J. Cameron, Genetic Medicine Recruitment Committee (RC), Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.** Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

POSTDOCTORAL FELLOWSHIPS

The Division of Immunobiology at Children's Hospital Medical Center in Cincinnati, Ohio, invites applications for highly motivated and creative Scientists for Postdoctoral Fellowships. We are seeking candidates to participate in studies of the immunopathogenesis of allergic diseases. A highly competitive salary and benefits are available to a Ph.D./M.D. with prior training in cellular or molecular immunology and/or pulmonary pathobiology. Preference will be given to applicants interested in using state-of-the-art approaches to identify and validate novel genes underlying the pathophysiology of allergic diseases. Interested candidates should submit curriculum vitae and the names of three references to: **Marsha Wills-Karp, Ph.D., Division of Immunobiology, Children's Hospital Medical Center, 3333 Burnet Avenue, Cincinnati, OH 45229.** E-mail: m.wills-karp@chmcc.org. Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION GENE REGULATION

Position available immediately to identify gene regulatory elements and transcription factors that modulate the expression of biogenic amines in response to neuronal activity and pharmacological manipulations. Qualified candidates should have knowledge and experience in one or more of the following subjects: promoter identification, neuronal cell culture, and bioinformatic approaches in gene networks. Send curriculum vitae and contact information for three references to: **Frederick S. Jones, Ph.D., The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.** E-mail: jones@nsi.edu.



Protein Design Labs, Inc. (PDL), a publicly traded biopharmaceutical company (Nasdaq: PDL), is a leader in the development of humanized monoclonal antibodies to treat various disease conditions. We currently have antibodies in clinical development for autoimmune and inflammatory conditions, asthma and cancer. Our multidisciplinary approach to drug discovery and clinical product development utilizes a broad range of scientific disciplines and skills. We are looking for talented, motivated individuals to contribute to our vision and join the PDL team at our Fremont, California location.

Staff Scientist Preclinical Development

You will design experimental protocols, and select/develop methods and techniques to perform safety, pharmacology and mechanism of action studies in support of preclinical development of potential human therapeutics for autoimmune diseases. Candidates must possess a Ph.D. in Immunology, Cellular Biology or related field with 3-12 years of relevant postdoctoral experience. The ideal candidate will have experience in cellular & clinical immunology, immunopharmacology, and in the development/application of cellular and humoral assays to define immune responses with in vivo models & human patients. Requires experience with in vivo models, mechanisms of autoimmune diseases, immunocytochemistry (FACS, ELISA), immunohistochemistry, mammalian tissue culture cell lines, enzymatic assays, and tissue/cell separation. Excellent written/verbal communication & presentation skills are a must. (Job #751-S)

www.pdl.com

Staff Scientist Autoimmune & Inflammatory Diseases

You will help identify novel targets for the treatment of autoimmune and inflammatory diseases. Requires a Ph.D. in immunology or molecular biology with 2+ years' relevant postdoctoral experience; expertise in gene isolation & characterization, subtractive hybridization, recombinant protein expression, PCR, DNA array analysis & bioinformatics. (Job #742-S)

Postdoctoral Fellow

You will work on projects in protein engineering to modify and improve the functions of monoclonal antibodies. Requires a Ph.D. in molecular biology or a related field; working knowledge of state-of-art molecular biology techniques, particularly in genetic engineering. (Job #733-S)

PDL provides a collaborative team environment where we encourage you to use your creativity, seize individual responsibility, and take initiative to go beyond the challenges of your job. We offer competitive salaries/benefits & attractive stock options. Please send resume to:

Protein Design Labs, Inc.
HR Dept., Attn: (Job# ____)
34801 Campus Dr,
Fremont, CA 94555
Fax: (510) 574-1448
Email: careers@pdl.com
EOE m/f/d/v



LECTURER SOE IN EVOLUTION AND ECOLOGY, UNIVERSITY OF CALIFORNIA, DAVIS

The Division of Biological Sciences, University of California, Davis invites applications and nominations for a full-time Lecturer position with Security of Employment in the Section of Evolution and Ecology. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields. This is a full-time teaching position, with no research component. The individual selected for this position must have a demonstrated record of outstanding achievement in teaching large-enrollment undergraduate courses in animal diversity, evolution and ecology. The successful candidate will be expected to teach at least two sections of the introductory biology course each year, to develop and teach a course on "Teaching organismal biology" to advanced undergraduates interested in biology teaching at all levels and to contribute to at least three specific upper division courses: Invertebrate Zoology, Evolution, and Ecology. Applicants should send (1) a curriculum vitae, (2) copies of relevant teaching evaluations and other evidence (which may include videotapes and other non-print materials) demonstrating excellence in teaching, and (3) a description of teaching experience, philosophies and interests to: **H. Bradley Shaffer, Chair, Lecturer SOE Search Committee, Section of Evolution and Ecology, University of California, One Shields Avenue, Davis, CA 95616-8755**. Closing Date: Open until filled, but all application materials, including letters of recommendation, must be received before April 15, 2001 to assure full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.*

National Center for Research Resources (NCRR) - National Institutes of Health



NCRR: Catalyst for Discovery

Associate Director for Clinical Research

The National Center for Research Resources (NCRR) invites applications for the position of Associate Director for Clinical Research (ADCR), NCRR, NIH. One of the four NCRR research areas, the Clinical Research area establishes and supports specialized multi-disciplinary laboratories and shared resources for clinical research; supports specially adapted and professionally staffed clinical research environments; and supports clinical research training and career development of physicians and dentists to become independent clinical investigators. The ADCR serves as a member of the senior leadership of the Center and is responsible for planning, formulation, program review, development, and evaluation of all programs encompassed by the Clinical Research (CR) area, and in the overall administration of the CR area, and will have supervisory authority over administrative and scientific staff. Direction of the CR area includes three complementary sets of programs: 1) a national network of about 75-80 General Clinical Research Centers; 2) a portfolio of regional and national research resources to foster clinical research; and 3) a portfolio of programs for enhancing the interests of medical students in clinical research; career development of young promising physicians; and providing protected time for established clinical investigators. Qualified applicants must possess an M.D. or equivalent combination of experience and training. Candidates must be established scientists with considerable experience in clinical research; be nationally recognized for scientific achievements by the scientific community and considered an authority in his/her scientific field.

To view the full text vacancy announcement and requirements, applicants are strongly encouraged to access the NIH automated vacancy retrieval system at <http://careerhere.nih.gov> and view vacancies within the National Center for Research Resources. Total salary is competitive and will be commensurate with experience of the selectee. Send applications to National Institutes of Health, National Center for Research Resources (NCRR), 31 Center Drive, MSC 2131, Bethesda, MD 20892. For additional information contact the NCRR Personnel Office on (301) 496-1524. Deadline for applications is 3/18/01. Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

VISITING BIOLOGISTS

The Department of Biology invites applications for one or two one-year appointments at the **ASSISTANT PROFESSOR** level to begin August 2001. Teaching responsibilities include introductory courses for nonmajors and participation in the lower-level biology core requirements and upper-level elective courses in biology. Preference will be given to Biologists capable of teaching ecology and evolution. Applicants should have or expect a Ph.D. before the starting date. St. Mary's College of Maryland, a state-supported Carnegie Baccalaureate Liberal Arts institution located 70 miles southeast of Washington, D.C., in St. Mary's City, is Maryland's designated public honors college for the liberal arts. With highly selective admissions policies, academically talented students, and a rigorous curriculum, we have been labeled a "public Ivy." St. Mary's faculty benefit from a comprehensive program of support for scholarship, research, travel, curriculum development, and sabbaticals for pretenure and tenured faculty. The quality of life is enhanced by the recreational opportunities of the Chesapeake region and proximity to Washington, D.C., and Baltimore. To apply, please submit a cover letter, curriculum vitae (including e-mail address), and three references to: **Chair, Biology Search Committee, 18952 East Fisher Road, St. Mary's College of Maryland, St. Mary's City, MD 20686-3001. Website: www.smcm.edu.** Review of applications will begin immediately and continue until the position is filled. *St. Mary's College of Maryland is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE Vanderbilt University Medical Center

Applications are invited for Postdoctoral Fellow or Research Associate to study the enteric nervous system, working with a newly established primary culture system for enteric neurons, glia, and interstitial cells of Cajal (ICC) from mice. Research project will focus on molecular mechanisms determining specific gene expression in enteric neurons, glia, and ICC and may be tailored to the interests of the Fellow/Associate. Experience with neuronal cell culture is highly desirable. Skills in molecular and cellular biology are also desirable.

Salary and benefits will be commensurate with experience and according to NIH guidelines for Postdoctoral Fellows and Vanderbilt University guidelines for Research Associates. Interested persons should send cover letter describing research interests and career goals, curriculum vitae, and three references to: **Christopher D. Ferris, M.D., Ph.D., Departments of Medicine and Cell Biology, Division of Gastroenterology, Vanderbilt University Medical Center, C2104 Medical Center North, Nashville, TN 37232-2279. E-mail: christopher.ferris@mcmail.vanderbilt.edu.** *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately at the University of Michigan to study oxidative stress and programmed cell death signaling in cell culture and genetically engineered animal models of diabetes. Highly motivated candidates with expertise in cell and molecular biology or biochemistry are highly desired. Applicants with recent Ph.D. or M.D. degrees should send their curriculum vitae and a list of three references to: **Dr. James Russell, University of Michigan, 4414 Kresge III, 200 Zina Pitcher Place, Ann Arbor, MI 48109. E-mail: jruss@umich.edu.**

POSTDOCTORAL POSITION is available to study human factor VII (antithrombotic factor) structure and interactions with other macromolecules. Candidates should have a strong background in protein biochemistry and molecular biology. Send curriculum vitae and contact information for three references to: **Dr. Philip J. Fay, Department of Biochemistry and Biophysics, P.O. Box 610, University of Rochester School of Medicine, Rochester, NY 14642. E-mail: Philip_Fay@urmc.rochester.edu.**

POSITIONS OPEN

UNIVERSITY OF MINNESOTA Center for Computational Genomics and Bioinformatics

As part of a major initiative in genomics, the University of Minnesota is expanding its Center for Computational Genomics and Bioinformatics (CCGB). Formerly known as the Computational Biology Centers, the CCGB is a leader in the development of software and databases for genomic data processing, analysis, and visualization. The CCGB seeks candidates for several new scientific positions at the **RESEARCH ASSOCIATE** and **POSTDOCTORAL ASSOCIATE** level (see descriptions below for details). Successful applicants will work in a stimulating multidisciplinary environment in which Programmers and Software engineers at various skill levels work closely with Biologists to solve current bioinformatic problems.

BIOINFORMATICS RESEARCH TRAINERS

We invite applications from individuals with a Ph.D. in any one of several biological areas (e.g., biochemistry, genetics, or molecular biology in plant, animal, human, microbial, or invertebrate systems) for training in bioinformatics. Candidates hired will be trained to use leading-edge bioinformatic software and then will use these new skills to collaborate with other Biological Scientists. Hence, applicants must have good written and verbal skills and be comfortable with computing. Familiarity with the UNIX environment is preferred.

BIOINFORMATIC RESOURCE DEVELOPERS

We also invite applications from individuals with a Ph.D. in fields related to biology or computer science with experience in the complementary field (more than two years for Research Associate level; less for Postdoctoral Associates). Successful candidates will design software tools and databases utilizing data from microarray, proteomic, and metabolic pathway sources. (Demonstrated expertise in one of these three areas is required.) Experience with UNIX, Perl/CGI programming, and databases is desirable. Interested applicants should send a cover letter identifying the type of position they wish to fill, curriculum vitae, and the names and contact information for three references to: **Bonita Bartholomew, Bioinformatics Search Committee, Center for Computational Genomics and Bioinformatics, University of Minnesota, Mayo Mail Code 43, 420 Delaware Street S.E., Minneapolis, MN 55455.** For more details on these opportunities and some additional information on technology positions, please consult **website: <http://www.cbc.umn.edu/jobs>.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE position available at Baylor College of Medicine to study the role of fibroblast growth factors in the pathogenesis of benign prostatic hyperplasia and prostate cancer. Strong skills in molecular and cell biology essential, with a strong record of research productivity. Experience in prostate biology is helpful. Salary: \$28,000 to \$32,000 depending on experience. Contact:

**Dr. Michael Ittmann, M.D., Ph.D.
Department of Pathology
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
E-mail: mittmann@bcm.tmc.edu**

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

POSITIONS OPEN

MICROBIOLOGIST (MICROBIAL ECOLOGIST)

The Eastern Regional Research Center (ERRC), Agricultural Research Service, U.S. Department of Agriculture, has an opening for a permanent full-time Microbiologist (Microbial Ecologist). This individual will serve as an independent Scientist of the Microbial Food Safety Research Unit, which is located on an attractive 27-acre campus just outside Philadelphia, in Wyndmoor, Montgomery County, Pennsylvania. Employees enjoy a flexible work schedule and have access to public transportation, a computer center, and a library. The Scientist will be responsible for developing strategies to eliminate or manage the prevalence and dissemination of undesirable microbes at various points along the food chain. *Candidates must be U.S. citizens and have knowledge of microbial ecology/physiology, food microbiology, biochemistry, epidemiology, and animal or poultry science.* The incumbent should have an appreciation of food animals, food processing, and/or food technology and the ability to plan and conduct research that produces data which furthers our understanding of the interactions and management of microbes in foods. Salary commensurate with experience; GS-12: \$53,431 to \$69,456, GS-13: \$63,538 to \$82,605 per year. For information on the position, call **Dr. John B. Luchansky; Telephone: 215-233-6620; e-mail: jluchansky@arserrc.gov.** For an application package, call **Mary Ann Byrne; Telephone: 215-233-6571.** Incomplete applications will not be accepted. Applications must be marked ARS-A1E-1209 and postmarked by May 15, 2001. *USDA/ARS is an Equal Opportunity Employer.*

DIRECTOR ADVANCED IMAGING RESEARCH CENTER

Oregon Health Sciences University invites applications for the position of Director of its new \$17 million Advanced Imaging Research Center. The Center will be dedicated to biomedical research and serve as a core imaging research facility for the campus. We seek an M.D. and/or Ph.D. with a demonstrated MR research record, success in obtaining extramural funding, and a strong vision to develop a multidisciplinary imaging center. Expertise in MR physics and biomedical engineering is desirable. The appointment will be made at the level of **ASSOCIATE PROFESSOR** or **PROFESSOR**. The Director will be responsible for the management of three research-dedicated MRI scanners (1.5T, 3-4T, and a high-field, small-bore system) and the supervision of at least two additional Physicist and/or Engineering positions as well as core support staff. For all consideration, please forward curriculum vitae, names of three references, and a letter of introduction to: **Ginger Ashworth, Department of Behavioral Neuroscience L470, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. E-mail: ashworth@ohsu.edu.** For queries about the Center, contact: **Dr. Jeri Janowsky; e-mail: janowskj@ohsu.edu.** *OHSU is an Affirmative Action/Equal Opportunity Employer.*

The Neuroimmunology Branch, NINDS, NIH, seeks a **NEUROLOGIST/CELLULAR IMMUNOLOGIST** to conduct immunological and translational clinical studies in multiple sclerosis. The individual should be Board certified in neurology, have had at least three years of postdoctoral training in cellular immunology, and have sound training in the design and conduct of Phase II clinical trials in MS including biostatistics and immunological biomarker studies. The candidate should have documented her/his productivity by publications in internationally recognized journals. The salary range will be \$65,000 to \$85,000 USD depending on experience. Please send applications including curriculum vitae, bibliography, and three letters of recommendation to: **H. F. McFarland, M.D., Chief, Neuroimmunology Branch, NINDS, NIH, 10 Center DR MSC 1400, Bethesda, MD 20892-1400.** Applications should be postmarked no later than April 2, 2001.

FASEB SUMMER RESEARCH CONFERENCE

STEROIDS AND BONE

June 23-28, 2001
Whitefish, Montana

Organizers: Rajiv Kumar, Lorraine Fitzpatrick, Daniel Bikle and Donald McDonnell

Steroid Hormone Structure and Function. B.W. O'Malley, G.L. Green, J.A. Gustafsson, D. Moras. **Role of Co-activators and Co-repressors in Steroid Hormone Function.** R.M. Evans, M. Brown, V. Giguere. **Estrogen and Progesterone Actions on Bone.** L.K. McCauley, L.A. Fitzpatrick, K.S. Korach, T.C. Spelsberg, G.A. Rodan. **Novel Aspects of Steroid Hormone Receptor Signaling.** W.W. Chin, M. Clagett-Dame, K.B. Horwitz. **Selective Estrogen and Receptor Modulators.** D. McDonnell, H.U. Bryant, R. Tumer, R. Lindsay, B.L. Riggs. **Androgen Action/Tissue Selective Androgens.** S. Khosla, E.M. Wilson, E.S. Orwoll, E.R. Simpson. **Glucocorticoid Hormones.** G. Schutz, S. Rodan, S.C. Manolagas. **Vitamin D and Analogs/Mechanisms of Action.** R. Kumar, H.F. DeLuca, L.P. Freedman, S. Kato, J.B. Lian, D. Bikle, M.R. Haussler, E. Slatopolsky, S. Peleg.

Young investigators, women and minorities are encouraged to attend. Funds for travel and registration will be available to a limited number of investigators.

The conference application can be found on the FASEB website at - www.faseb.org/meetings/src
For additional information contact - ahewitt@faseb.org

Endowed Chair in Pediatric Inflammatory Bowel Disease Research

The Wayne State University School of Medicine, Department of Pediatrics, Division of Pediatric Gastroenterology in cooperation with the Children's Research Center of Michigan at Children's Hospital of Michigan is seeking to recruit an individual to occupy a newly endowed chair for inflammatory bowel disease (IBD) research. The ideal candidate may be an M.D., M.D./Ph.D. or Ph.D. with a history of significant contributions to IBD research and an associated funding record. The available position is best suited for someone with a major interest in studying the epidemiology of chronic IBD with a special emphasis on gene mapping; or, investigations concerning the immunobiology of IBD with the focus on prevention/pathogenesis. Applications with a letter of intent, career goals and Curriculum Vitae should be sent to:

Vasundhara Tolia, M.D.
Director, Pediatric Gastroenterology
Children's Hospital of Michigan
3901 Beaubien Blvd.
Detroit, MI 48201

Applicants are encouraged to call and discuss the position with Dr. Vasundhara Tolia at (313) 745-5585 or with Dr. William D. Lyman, Associate Chairman for Research, Department of Pediatrics and Director of the Children's Research Center of Michigan at (313) 745-2400.

Wayne State University is an affirmative action/equal opportunity employer.

ANNOUNCEMENTS

TESTA, HURWITZ & THIBEAULT, LLP

Lawyers For The New Economy

The Patent and Intellectual Property Practice Group
is pleased to announce the formation of the

BIOINFORMATICS SUBGROUP

specializing in the representation
of the informatics community.

The subgroup, which already represents several of the industry leaders in the bioinformatics field, will be coordinated by Thomas Turano, Edmund Pitcher, and Thomas Meyers, partners in the firm who have had significant experience in representing informatics clients, as well as clients in both the biotechnology and computer areas.

For More Information Contact:
Thomas Meyers, Partner

125 High Street Boston, MA 02110 Phone: 617-248-7000 Fax: 617-248-7100
www.tht.com

POSITIONS OPEN

MOLECULAR GENETICIST CARDIOVASCULAR DISEASE

The Department of Genetics at the Southwest Foundation for Biomedical Research is seeking a Molecular Geneticist who will develop an extramurally funded program to investigate the genetic determinants of cardiovascular disease and/or risk factors for cardiovascular disease. The successful candidate must be willing to integrate into ongoing programs in the Department of Genetics and should have a strong interest in nonhuman primate models of disease. The Department of Genetics has 16 faculty-level Scientists, many of whom collaborate in two Program Project grants concerning the genetics of atherosclerosis, in human and nonhuman primate (*Papiohamadryas*) populations. The broad range of research programs present in the Department is described on the Department's website: <http://www.sfbr.org/sfbr/departments/genetics/genetics.html>. Resources available at the Southwest Foundation include the large nonhuman primate colonies maintained by the Southwest Regional Primate Research Center and extensive laboratory and computer facilities. The successful candidate will be appointed at the ASSISTANT SCIENTIST, ASSOCIATE SCIENTIST, or SCIENTIST level depending upon experience and qualifications. A minimum of three years of postdoctoral experience is required for appointment at minimum rank. The title structure at the Southwest Foundation parallels that at universities such that an individual appointed at the level of Assistant Scientist should have experience and qualifications commensurate with appointment at the level of Assistant Professor; an individual to be appointed as a Scientist should have qualifications commensurate with appointment as a Full Professor. Applicants may contact: **Dr. Sarah Williams-Blangero, Chair of the Department of Genetics; Telephone: 210-258-9577; e-mail: sarah@darwin.sfbr.org** if they have specific questions about the position. Applicants should submit curriculum vitae and the names, addresses, and telephone numbers of three references to: **Mr. Michael Moore, Director of Human Resources (0255), Southwest Foundation for Biomedical Research, P.O. Box 760549, San Antonio, TX 78245-0549.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION IMMUNOLOGY AND CANCER BIOLOGY

Available to study the mechanism of V(D)J recombination in lymphocytes and the nonhomologous end-joining pathway of DNA repair. (See *Nature* 396: 173-177, 1998; *Cell* 95:891-902, 1998; *Molec. Cell* 5:993-1002, 2000). Candidate must have M.D. or Ph.D. and experience in molecular biology or biochemistry.

Please send statement of interest, curriculum vitae, and names of three references to: **Dr. Karen Frank, Department of Pathology, University of Chicago, 5841 South Maryland Avenue, MC 1089, Chicago, IL 60637. E-mail: kfrank@uchicago.edu. FAX: 773-834-5251.** *The University of Chicago is an Equal Opportunity/Affirmative Action Employer and welcomes applications from women and minorities.*

POSTDOCTORAL POSITION NEUROPHYSIOLOGY

Position available immediately to study spatially modulated unit activity within the parietal cortex and hippocampus of the rat and its relationship to the activity of brainstem noradrenergic and serotonergic neurons. Research involves generation of multiple single-unit recordings from multiple brain regions simultaneously as rats learn a spatial foraging task. Expertise in electrophysiology in behaving animals and/or in behavioral paradigms for the study of spatial navigation is desirable. Send curriculum vitae and contact information for three references to: **Douglas Nitz, Ph.D., The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121. E-mail: nitz@nsi.edu.**

POSITIONS OPEN



The Agricultural Research Service, Plant Sciences Institute, Molecular Plant Pathology Laboratory in Beltsville, Maryland, is seeking a permanent **RESEARCH MOLECULAR BIOLOGIST** to conduct research to identify and elucidate bacterial pathogen genes involved in plant-pathogen interactions and to design and construct recombinant virus-based vectors for expression of foreign genes in plants to control economically important plant diseases. Salary range: \$53,156 to \$82,180 per annum plus benefits. Applicants must have qualifying education and/or experience that has provided (1) knowledge of plant molecular biology and gene transfer processes, procedures, and techniques; (2) knowledge of plant physiology and biochemistry; (3) knowledge of molecular plant virology; (4) skill in using computer programs for analysis of nucleotide sequences; and (5) skill in designing, planning, and conducting research and publishing results in peer-reviewed journals. *U.S. citizenship is required.* For research program information, contact: **Dr. Robert E. Davis; Telephone: 301-504-5745.** To address specific qualification requirements and application instructions, applicants must request a copy of Vacancy Announcement ARS-XIE-1243 by calling **Telephone: 301-504-1482; website: www.ars.usda.gov.** Applications must be postmarked by March 19, 2001. *USDA/ARS is an Equal Opportunity Provider and Employer.*

BIOLOGY POSTDOCTORAL TEACHING POSITION (Visiting Assistant Professor)

This position provides the opportunity to develop as a teacher-scholar in a liberal arts and sciences culture. Teaching responsibilities include introductory biology (for majors and/or nonmajors) and possibly an upper-level majors course. There is also the potential for collaborative research. To review faculty research interests and potential collaborators, see **website: www.truman.edu.** This position is funded for one year with possible renewal for a second year. Modest funds available for research involving students.

Truman is Missouri's only statewide, highly selective, public undergraduate liberal arts and sciences university. *U.S. News and World Report* has ranked Truman as the number one public university in the Midwest. We are nationally recognized for our innovative assessment program and commitment to a broad-based liberal arts and sciences education. Students benefit from a universitywide 16:1 student/faculty ratio and the opportunity to work closely with faculty conducting research. Candidates must possess a Ph.D. or have a targeted completion date by August 2001. Complete applications include curriculum vitae, statements of teaching philosophy and research goals, all undergraduate and graduate transcripts, and three letters of recommendation. All materials should be sent to: **Dr. Janna McLean, Division of Science, Truman State University, Kirksville, MO 63501. Telephone: 660-785-4598; FAX: 660-785-4045.** Applications will be reviewed starting March 15, 2001.

Truman is an Equal Employment Opportunity Institution committed to cultural diversity and compliance with the Americans With Disabilities Act.

PROTEOMICS POSTDOCTORAL POSITION available for central nervous system disease diagnosis. Project involves 2DE, MALDI, and LC ion trap mass spectrometry. Preference given to applicants with a background in chemical engineering and/or in molecular biology. HPLC experience is a benefit. More information about this and related research projects is at **website: www.leelab.org.** Please send hard copy curriculum vitae and names of three references to: **Kelvin H. Lee, Chemical Engineering, Cornell University, 120 Olin Hall, Ithaca, NY 14853-5201.** *Applicants must be U.S. citizens or permanent residents.*

POSITIONS OPEN

RESEARCH ENTOMOLOGIST

The USDA-ARS Plant Science and Entomology Research Unit, Manhattan, Kansas, is seeking a Research Entomologist. Duties include leading a highly technical, long-term, basic and applied research program on insect host resistance with emphasis on Hessian fly resistance. This program is an integral part of a regional cooperative research program to improve wheat performance and develop basic information on the genetics of pest resistance and other traits in wheat. A Ph.D. degree in entomology or related fields is preferred. An extensive working knowledge of the theory and application of population, quantitative, classical, and molecular genetics is required. An understanding of the genetic manipulations useful in incorporating effective multiple pest resistance into superior germplasm is required. Knowledge of wheat genetics and wheat germplasm enhancement techniques is highly desirable. Salary is commensurate with qualifications and experience. Salary: \$43,326 to \$57,118 per annum. For application information, contact: **Jimmie Nell Oliver; Telephone: 785-776-2737.** Vacancy announcement may also be obtained via **website: <http://www.ars.usda.gov/>.** For position information, contact: **Dr. Daniel Skinner; Telephone: 785-532-7247.** *Must be a U.S. citizen. The USDA and its agencies are committed to Equal Employment Opportunity and applicable civil rights provisions. Women and minorities are urged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR (RESEARCH) AGING RESEARCH

The Geriatric Research, Education, and Clinical Center (GRECC) at the Veterans Administration Palo Alto Health Care System and Stanford University School of Medicine are seeking highly qualified applicants for the position of **ASSISTANT or ASSOCIATE PROFESSOR (Research)** to pursue research in the study of cellular and molecular mechanisms of aging or age-related diseases. Of particular interest is the application of genetic and *in vitro* models to the studies of aging. Applicants should have a Ph.D., M.D., or equivalent degree and should have a strong record of accomplishment and a solid publication record in a relevant biomedical field. The appointee will be expected to participate in medical center and university teaching programs and to play a leadership role in the greater community of research in aging at Stanford University. Applicants should send their curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to:

**Thomas A. Rando, M.D., Ph.D., Director
GRECC (182B)
VA Palo Alto Health Care System
3801 Miranda Avenue
Palo Alto, CA 94304**

VA Palo Alto is an Equal Opportunity Employer. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

POSTDOCTORAL POSITION is available at New York University School of Medicine at the Institute of Environmental Medicine, located about 40 miles northwest of New York City, to study histone acetylation and gene silencing by metal carcinogens. Knowledge of molecular biology is essential. Send curriculum vitae and names of three references to: **Dr. Max Costa, Department of Environmental Medicine, NYU School of Medicine, 57 Old Forge Road, Tuxedo, NY 10987. E-mail: costam@env.med.nyu.edu.**

POSTDOCTORAL POSITION to study endothelial-specific gene expression during embryogenesis. Emphasis is on discriminating endothelial from hematopoietic cells. A strong background in molecular biology, flow cytometry, and confocal microscopy is desirable. Please send your curriculum vitae to: **Mervin C. Yoder, M.D., Wells Center for Pediatric Research, Indiana University School of Medicine, 1044 West Walnut Street, Indianapolis, IN 46202. E-mail: myoder@lupui.edu.**



Roche MBA Fellowship Programme for Medical and Science Graduates

**We encourage and support people
of the highest career potential
to complement their medical
or science qualifications
with a first-class business education
in an international setting**

Find out about the Roche MBA Fellowship Programme:
<http://www.mba-fellowship.org/mba>

or contact

Roche MBA Fellowship Programme for Medical and Science Graduates

c/o Roche Research Foundation
P. Hoffmann-La Roche Ltd
CH-4070 Basel, Switzerland

Tel. +41 61 688 52 27

Fax +41 61 688 14 60

E-mail research.foundation@roche.com

POSITIONS OPEN

POSTDOCTORAL OPPORTUNITIES Center for Biologics Evaluation and Research Food and Drug Administration

The Laboratory of Immunology and Developmental Biology, Division of Cellular and Gene Therapies, is searching for candidates to fill two positions. The appointments are for one to three years. Ph.D. and/or M.D. and laboratory research expertise required. No postdoctoral experience required. Annual salary rate begins at \$35,000 for a new graduate. The laboratories are located on the NIH campus. To apply, send curriculum vitae and names/contact information for three references to: **FDA, CBER, OTRR, DCGT, 1401 Rockville Pike, HFM-521, Suite 200 North, Rockville, MD 20852-1448** with attention to the appropriate Principal Investigator contact listed below. Applications are also accepted by e-mail; please see below.

FELLOWSHIP NUMBER ONE is available after June 1, 2001, in the laboratory of **Dr. Suzanne Epstein** for studies of mechanisms of immunity against influenza virus infection in mice. Projects include cross-reactive immunity *in vivo*, DNA vaccines, and immune protection in mice with selective immune deficiencies (knockout strains, acute depletions). Experience in immunology or molecular biology useful but not required. Willingness to learn and perform animal procedures required. E-mail: epsteins@cber.fda.gov.

FELLOWSHIP NUMBER TWO is available immediately in the laboratory of **Dr. Malcolm Moos**. Investigations will explore molecular pathways governing anatomic patterning; tissue and cell fate specification; and feedback mechanisms that regulate these pathways in response to environmental stresses with emphasis on functional analysis of proteins in the TGF-beta/BMP family, their antagonists, and other signaling proteins in *Xenopus*. Expertise in either embryological experimentation or protein microanalysis (including micropreparative electrophoresis, HPLC, Edman degradation, and mass spectrometry preferred. E-mail: moos@cber.fda.gov.

POSTDOCTORAL POSITION available immediately for NIH-funded research in regulation of rhodopsin sorting and trafficking in retinal photoreceptor cells. Cell-free assays, biochemical and molecular analysis, and confocal and electron microscopy will be used as tools to investigate the role of rhodopsin and small GTPases in photoreceptor cell polarity. Please send curriculum vitae, a brief description of research experience, and three references to: **Dr. Dusanka Deretic, University of Michigan, Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105. Telephone: 734-647-7305; FAX: 734-936-7231; E-mail: dereticd@umich.edu. The University of Michigan is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION, University at Buffalo. This is an NIH-funded project using electrophysiological techniques to examine abnormal dopamine neurotransmission after prenatal ethanol exposure. A Ph.D. degree and training in electrophysiological recording techniques are required. Experience with single-unit recording and patch clamp techniques is especially desirable. Candidates should also be interested in addiction-related research. Send curriculum vitae, description of research interests, and the names of three references to: **Roh-Yu Shen, Research Institute on Addictions, University at Buffalo, 1021 Main Street, Buffalo, NY 14201. E-mail: shen@ria.buffalo.edu.**

POSTDOCTORAL POSITION MOLECULAR GENETICS

Position available immediately to study sleep in *Drosophila melanogaster* utilizing behavioral, pharmacological, molecular, and genetic approaches. Qualified candidates should have a background in genetics and molecular biology with some experience in animal behavior. Send curriculum vitae and contact information for three references to: **Paul Shaw, Ph.D., The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121. E-mail: pshaw@nsi.edu.**

POSITIONS OPEN

ASSOCIATE CHIEF OF STAFF FOR RESEARCH

Veterans Administration Palo Alto Health Care System (VAPAHCS), Palo Alto, California, an affiliate of Stanford University School of Medicine, is accepting applications for the position of full-time Associate Chief of Staff for Research. Applicants must be U.S. citizens and have an M.D., Ph.D., or equivalent degree. Those with an M.D. or equivalent must hold a degree from an approved school, must hold a current and unrestricted license to practice medicine or surgery, and must be Board certified by an American specialty board. Applicants should have demonstrated significant and distinguishing accomplishments in research and administration. Experience in the VA system is highly desirable but not essential. The successful candidate will have to meet VA requirements for appointment as Associate Chief of Staff for Research and Stanford University School of Medicine requirements for faculty appointment at the **ASSOCIATE PROFESSOR or PROFESSOR** level. The appointee will be expected to maintain an outstanding research program of his or her own, to foster the growth of existing research programs, to facilitate the initiation of new programs, and to foster the careers of new Investigators. VAPAHCS, one of the largest and most complex VA facilities in the nation, has an extensive research program in the areas of medical research, rehabilitation research and development, health services research and development, and the VA Cooperative research with an annual research budget of \$37 million. Please send cover letter and curriculum vitae to: **Jackie Bevins (05C), Human Resources Management Service, VA Palo Alto Health Care System, 3801 Miranda Avenue, Palo Alto, CA 94304**. Complete application packages must be received not later than April 23, 2001. For additional information, please call **Ms. Bevins; Telephone: 650-493-5000, Extension 64351**. VAPAHCS and Stanford University are Equal Opportunity Employers, are committed to increasing representation of women and members of minority groups on the faculty, and particularly encourage applications from such candidates.

POSTDOCTORAL POSITION Harvard Medical School

A Postdoctoral position is available to apply chemical genetic approaches to the study of cell division and cancer. Successful candidates will have a strong background in cell biology, biochemistry, cell cycle control, or cancer biology. More information can be obtained at website: <http://iccbweb.med.harvard.edu/king/index.html>. Please send curriculum vitae and names of three references to: **Dr. Randall King, Institute of Chemistry and Cell Biology, 250 Longwood Avenue SGM 604, Boston, MA 02115**.

POSTDOCTORAL POSITION to design bioinformatic computer algorithms for songbird brain research. Data to be analyzed includes cDNA microarrays, electrophysiology, anatomy, and behavior. Will be part of Duke Bioinformatic Consortium and expected to assist teaching bioinformatics. Must start by September 1, 2001, and be a U.S. citizen or permanent resident. Visit website: <http://www.neuro.duke.edu/faculty/Jarvis/Jarvis.htm> for more information. Send curriculum vitae and statement of interest to: **Dr. Erich Jarvis; e-mail: jarvis@neuro.duke.edu. Duke University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS are available to study the molecular and cellular biology of the sexual development of the malaria parasite. Applicants should have a recent Ph.D. in molecular biology, biochemistry, or related fields.

Experience with protein-RNA interaction and yeast hybrid systems is a plus. Please send curriculum vitae, career goal statement, and names of three references by e-mail: luc2@psu.edu or mail to: **Dr. Liwang Cui, Department of Entomology, Penn State University, 501 ASI, University Park, PA 16802**.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION in MEMS and nanotechnology: The MEMS Laboratory in the Mechanical Engineering Department at the University of Michigan, Ann Arbor, seeks a **POSTDOCTORAL RESEARCH ASSOCIATE** to conduct basic and applied research in the field of MEMS and nanotechnology to develop novel micro-miniature devices for future intelligence collection. The research experiences desirable for this project include but are not limited to those in optics, biosynthesis, chemical/biological sensing, electromagnetic wave theory and simulation, dielectric heating, nanoscale mass/energy/electrical transport, nanomaterial synthesis, and microfluidics. The candidate is required to hold a Ph.D. in physics, biophysics, chemistry, electrical engineering, materials science, polymer science, chemical engineering, or closely related field. The appointment is for three years. The annual salary is in the range of \$57,000 to \$65,000 and begins September 30, 2001. Send a letter of application, résumé, and e-mail address to: **Dr. Katsuo Kurabayashi, Department of Mechanical Engineering, University of Michigan, Ann Arbor, MI 48109-2125. E-mail: katsuo@umich.edu; website: <http://www.engin.umich.edu/dept/meam/>. U.S. citizenship is required for this position.**

HARVARD MEDICAL SCHOOL AND MASSACHUSETTS INSTITUTE OF TECHNOLOGY

POSTDOCTORAL POSITIONS available immediately to study the regulation of genes in the endothelium using *in vitro* and *in vivo* model systems. The positions are funded by an NIH SCOR program administered by **Dr. William Aird** at the Beth Israel Deaconess Medical Center and **Dr. Robert Rosenberg** at the Massachusetts Institute of Technology. Experience in molecular biology and transgenic/knockout techniques is preferred. Send curriculum vitae and names of three references to: **Dr. William Aird, Molecular Medicine RW-663, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-667-2913; e-mail: waird@caregroup.harvard.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS Proteomics Analysis and Translation

Two openings are immediately available to utilize state-of-the-art proteomic technologies. The first position entails investigating proteins involved in translation. Experience in yeast protein biochemistry and molecular biology is required. The second position involves developing mass spectrometry-based proteomic applications. Experience in mass spectrometry is required. Submit curriculum vitae, a short summary of past research, and the names of three references to: **Andrew J. Link, Ph.D., Department of Microbiology and Immunology, Vanderbilt University Medical Center, 1161 21st Avenue South, Nashville, TN 37232. FAX: 615-343-7392; e-mail: andrew.link@mcmail.vanderbilt.edu.**

POSTDOCTORAL POSITION is currently available at the University of Kentucky Medical Center, Lexington, Kentucky, U.S.A., to study molecular and cellular mechanisms of cell injury. Strong background in molecular biology is required. Please submit curriculum vitae and the names and telephone numbers of three references to: **Dr. Michal Toborek, University of Kentucky Medical Center, Department of Surgery/Neurosurgery, Lexington, KY 40536 U.S.A. FAX: 859-323-2705; e-mail: cheetah@pop.uky.edu.**

POSTDOCTORAL POSITION in neuroscience. Position available to study cellular and molecular mechanisms of ischemic brain cell injury; focus on hsp70 and bcl-2 and astrocyte and neuronal interaction. Second focus on pH regulation in astrocytes including study of chimeric transporters. Experience in primary neuronal culture and digital fluorescence microscopy desirable. Send curriculum vitae to: **Dr. Rona Giffard, Department of Anesthesia S272, Stanford School of Medicine, Stanford, CA 94305-5117. E-mail: rona.giffard@stanford.edu.**

CONFERENCES

FASEB SUMMER RESEARCH CONFERENCE THROMBIN AND VASCULAR MEDICINE

June 2-7, 2001

Whitefish, Montana

Organizers: Marschall S. Runge
and Enrico di Cera

Topics: Thrombin Structure and Function. State of the Art Lecture on Mouse Genetics. Genetic Models. Signaling Through Protease Activated Receptors. Presentations from Junior Faculty. Thrombin and Atherosclerosis. Interrelationships Between Thrombosis and the Renin Angiotensin System. TF/VIIa etc. Thrombin in Cancer/CNS and Human Disease.

Application found on
www.faseb.org/meetings/src

CONFERENCES

Call for Papers

56th Calorimetry Conference

July 29 - August 3, 2001

Glen Eyrie Conference Center
Colorado Springs, CO

web-site:

<http://www.rmc.ca/academic/cconference/CalConf/>

The purpose of the Calorimetry Conference is to lead development of calorimetric methods and related scientific procedures and to advance their application in science and technology. Symposia have been organized in the following areas (invited speakers in bold):

Quantum Calorimetry: **Harold Moseley**, NASA Goddard Space Flight Center
Thermodynamics of Materials: **Leslie H. Allen**, University of Illinois and **Frances Hellman**, UC San Diego
Solid State Ionics: **Tsutomu Minami**, Osaka Prefecture University
Pharmaceutical Materials: **David J. W. Grant**, University of Minnesota
Solution Thermodynamics: **Christopher Wormald**, University of Bristol
Calorimetry in Molecular Biology: **Hans Jürgen Hinz**, University of Münster
Calorimetry of Whole Organisms: **Lee Hansen**, Brigham Young University, organizer

Use our web-site to register or submit an abstract.
Registration and Abstract Deadline:
Friday, April 27, 2001

Hosted by the University of Colorado at Colorado Springs.
Supported in part by Abbott Laboratories, Agouron Pharmaceuticals, Inhale Therapeutic Systems, Novartis, GlaxoSmithKline, CECC Torisha Co., Ltd, NIST, The Dow Chemical Company, Brigham Young University, Calorimetry Sciences Corporation, Thermometric AB.



International Aspirin® Award 2001

Young Researchers' Aspirin® Award

The objective of the Young Researchers' Aspirin® Award is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award is valued at € 10,000.

Entries will be judged by an international scientific committee representing basic and clinical research.

Young researchers are invited to order either a hardcopy or a CD-ROM of the complete application documents from the following address:

International Aspirin® Award
c/o Bayer AG
Consumer Care Business Group
Medical Department
Dr. Gisela Latta
Building C 151
D-51368 Leverkusen/Germany
Fax: ++49-214-30-55184
E-mail: gisela.latta.gl@bayer-ag.de

The application documents are also available on the internet at
<http://www.award.aspirin.com>

The deadline for submission is April 30th, 2001
(Date of receipt of documents by Bayer AG)



POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN BIOCHEMISTRY National Cancer Institute

An immediate opening exists for a full-time Postdoctoral Training Fellowship in the Experimental Transplantation and Immunology Department, Medicine Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study molecular aspects of tumor angiogenesis in a laboratory with a track record in this field. A background in biochemistry and molecular biology is required.

Please send cover letter, curriculum vitae, references, and statement of research interests to:

Giovanna Tosato, M.D.

Chief of the Molecular and Cell Biology Section
National Cancer Institute
Building 10, Room 12C205
10 Center Drive
Bethesda, MD 20892
E-mail: Tosatog@mail.nih.gov

Selection for this position will be based solely on merit with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership in an employee organization. The National Cancer Institute is an Equal Employment Opportunity and Affirmative Action Employer that values and fosters diversity throughout the entire organization.

POSTDOCTORAL FELLOWSHIP MAMMALIAN MOLECULAR GENETICS Biosciences Division Los Alamos National Laboratory

Candidates with excellent academic and scientific credentials are invited to apply. Research interests include redox-mediated signaling, regulation of DNA repair, skin development, and carcinogenesis. The successful candidate will formulate an independent research plan. Direct inquiries to: **Dr. Mark A. MacInnes**; e-mail: mci@lanl.gov. For additional information, see website: www.hr.lanl.gov/Postdoc. Submit curriculum vitae with cover letter outlining current research interests to e-mail: postdoc-jobs@lanl.gov (reference Job Number SCIENCE-PD006124) or submit two copies to: **Postdoctoral Program Office, SCIENCE-PD006124, MS-P290, Los Alamos National Laboratory, Los Alamos, NM 87545**. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy. Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL Department of Pathology

POSTDOCTORAL POSITIONS available immediately to study signal transduction pathways of apoptosis, innate immunity, and inflammation in mammalian systems. Experimental approaches will include biochemical analysis, molecular biology, and gene targeting in mice. *NIH training requires U.S. citizenship or permanent resident status.* Send curriculum vitae and names/addresses of three references to: **Dr. Gabriel Nunez, Department of Pathology, The University of Michigan Medical School, 1500 East Medical Center Drive, 4219 CCGC, Ann Arbor, MI 48109**. E-mail: bcix@umich.edu.

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

The Research Laboratory in the Division of Cardiovascular Diseases of the Department of Internal Medicine at the University of Tennessee Health Science Center is seeking a **POSTDOCTORAL FELLOW** to study cardiac remodeling and repair in man and rats. Applicants should have a strong background in molecular biology, biochemistry, and cell culture. Please send curriculum vitae and letters of recommendation to: **Karl T. Weber, M.D., Professor and Director, Division of Cardiovascular Diseases, 951 Court Avenue, Room 353 Dobbs, Memphis, TN 38163**.

POSITIONS OPEN

NIH 2001 = [OPPORTUNITY]^N

Train at the bench, the bedside, or both.
The NIH offers **POSTDOCTORAL** and **CLINICAL FELLOWSHIPS** as well as tenure-track positions.

For details, visit our website:
www.training.nih.gov

NIH is dedicated to building a diverse community in its training and employment programs.

Mayo Clinic **POSTDOCTORAL FELLOWSHIPS** in allergic diseases. Postdoctoral positions available immediately to study allergic diseases at Mayo Clinic Rochester and Mayo Clinic Scottsdale. Aspects include discovery of novel eosinophil granule proteins, mechanisms and regulation of eosinophil activation, role of IgE in the allergic response, generation/characterization of murine transgenic and gene knockout models of allergic disease, eosinophil-associated cutaneous disease, inflammatory mechanisms or allergic diseases in humans, and function of respiratory smooth muscle. Applicants can work either at Mayo Clinic Rochester or Mayo Clinic Scottsdale. Grant agency requires that all candidates must be U.S. citizens or permanent residents. Please send curriculum vitae, bibliography, and names and addresses of three references to: **Gerald J. Gleich, M.D., Department of Immunology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905**. Telephone: 507-284-7166; FAX: 507-284-5045; e-mail: gleich@mayo.edu; See also website: <http://www.mayo.edu/research/>. Mayo Clinic is an Affirmative Action and Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITION

NIH-funded **POSTDOCTORAL FELLOWSHIP** available to study regulation of cytokine expression in renal cortical tubule cells in response to Angiotensin II (AT II). AT II stimulates expression of several cytokines by these cells, including TGF-beta and osteopontin. This project will investigate the AT II-mediated regulation of the expression of these and other cytokines. Model systems include cell culture, isolated cortex tubule cells, and the *in situ* rat kidney. The candidate should have a background in intracellular signaling and experience in cell culture and molecular biology techniques. Contact: **Russell Scaduto, Ph.D., Department of Cellular and Molecular Physiology, Penn State College of Medicine, 500 University Drive, H166, Hershey, PA 17033**. E-mail: rscaduto@psu.edu; Telephone: 717-531-6064. Applications accepted until position is filled. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION MOLECULAR BIOLOGY OF AXONAL GUIDANCE

A Postdoctoral position is available to study the molecular mechanism of axonal guidance. Work in our laboratory is directed toward the identification and analysis of molecules that regulate the formation of axonal pathways. Candidates with experience in molecular biology are encouraged to send curriculum vitae, statement of research interests, and the names of three references to: **Dr. Renping Zhou, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020**. FAX: 732-445-0687; e-mail: rzhou@rci.rutgers.edu.

POSTDOCTORAL POSITION

NIH-supported **RESEARCH ASSOCIATE** position available immediately to study novel functions of LCAT in lipoprotein metabolism. Experience in cell and molecular biology techniques required. Send curriculum vitae and list of references to: **Dr. Papasani V. Subbiah, Rush Medical College, 1653 West Congress Parkway, Chicago, IL 60612**. E-mail: psubbaia@rush.edu; FAX: 312-942-8233.

POSITIONS OPEN

POSTDOCTORAL FELLOW Department of Biomedical Sciences Iowa State University College of Veterinary Medicine Ames, Iowa

Two Postdoctoral positions in the field of neurophysiology of learning, memory, and motor control will be available March 1, 2001. Salary will be according to NIH guidelines. Applicants should be interested in understanding the mechanisms by which neural networks learn and produce anticipatory behaviors. The projects seek to understand the neuronal mechanisms of associative and motor learning, and they involve the use of multiple-channel single unit recording, neuropharmacological, and neuroanatomical methods. Knowledge of basic surgical techniques, extracellular recording of neural activity, computer programming, and histology methods is desired but not required. Interested applicants should send their curriculum vitae to: **Dr. Vlastislav Bracha**; e-mail: vbracha@iastate.edu or mail to: **Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, IA 50011-1250**. Telephone: 515-294-6278; FAX: 515-294-2315; e-mail: vbracha@iastate.edu; website: <http://www.brainland.com/vbracha/vbhome.html>.

POSTDOCTORAL POSITION to Investigate Function and Dysfunction of the Human Oncoprotein MDM2

Applications are invited from recent graduates for a Postdoctoral position in a laboratory involved in understanding molecular biology of tumorigenesis and role of the human oncoprotein MDM2 in the etiology of cancer (see *EMBO J.* 17:2513, 1998). This position is to investigate the biochemical mechanism of human MDM2-mediated growth regulation in normal cells. Individuals with expertise in cDNA technology, DNA sequencing, mammalian cell culture systems, or expression analysis in transgenic mice are especially encouraged to apply. Salary is negotiable. Send complete curriculum vitae and arrange for three letters of reference to be sent directly to: **Swati Palit Deb, Ph.D., Associate Professor, Massey Cancer Center and Department of Biochemistry and Molecular Biophysics, Box 980614, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA 23298**. FAX: 804-828-1473; e-mail: spdeb@hsc.vcu.edu.

POSTDOCTORAL POSITION MOLECULAR MECHANISMS OF EUKARYOTIC TRANSCRIPTION Vanderbilt University Medical Center

Two Postdoctoral positions available to examine the role of TBP, the TATA box binding protein, and its associated protein factors in RNA polymerase II-mediated transcription initiation using the baker's yeast *Saccharomyces cerevisiae* system. We currently utilize a combination of biochemical, genetic, and biophysical methods to study the regulation and interactions of these proteins with each other, DNA, and other transcription factors; details can be obtained at website: www.mc.vanderbilt.edu/vumcdept/mpb/weil/weil_lab.html. Interested parties should send curriculum vitae and names of references to: **Dr. Tony Weil, Department of Molecular Physiology and Biophysics, Vanderbilt University, School of Medicine, Nashville, TN 37232-0615**. FAX: 615-322-7236. Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.

Looking for highly motivated recent Ph.D.s with prior experience with patch clamp recording techniques to join ongoing NIH-funded research on synaptic plasticity as **POSTDOCTORAL FELLOWS**. Experience with brain slices, cell cultures, and molecular biological probes is desirable. Contact: **Professor B. R. Sastry, c/o Department of Pharmacology and Therapeutics, University of British Columbia, Vancouver V6T 1Z3 Canada**. E-mail: sastry@unixg.ubc.ca.

POSITIONS OPEN

POSTDOCTORAL POSITION(S): structural proteomics of apoptotic domains. Two Postdoctoral positions are available at Simon Fraser University in the Department of Molecular Biology and Biochemistry in **Frederic Pio** laboratory. An NSERC/genomics-funded project (two to three years) is underway to study the structure of protein complexes of caspase-associated recruitment domains using molecular biology, protein expression purification, protein crystallization, structure determination by X-ray crystallography, and bioinformatics methods. Highly motivated individuals with a strong background in molecular biology, protein biochemistry, crystallization, and X-ray structure determination are encouraged to apply. Positions are available immediately; please send a summary of research experience, curriculum vitae, and the names of three references to: **Dr. Frederic Pio, Ph.D. Molecular Biology/Biochemistry Department, Simon Fraser University, 8888 University Drive, Burnaby, BC V5A 1S6 Canada. E-mail: fpio@sfu.ca; Telephone: 1-604-291-5660; FAX: 1-604-291-5583.**

Urological research: POSTDOCTORAL FELLOW. Two positions available. (1) Study hormone and growth factor regulation of prostate cancer cell cycle. Candidate should have knowledge of biochemical and molecular and cell biology techniques including immunoprecipitation, Northern and Western blot analysis, gel shift assays, cell synchronization, and biochemical fractionation. **Prem Reddy, Ph.D.; e-mail: preddy1@hfh.org.** (2) Study oxygen-derived free radicals and cellular mechanisms of kidney cell injury. Candidate should be experienced in biochemical and molecular and cell biology and have knowledge of histology, cell culture, and small animal model techniques. **S. Thamilselvan, Ph.D.; e-mail: sthamil1@hfh.org.** Send curriculum vitae via e-mail, FAX (313-874-4324), or mail to specified name at: **Henry Ford Health System, Urology Research, 1 Ford Place, 2D, Detroit, MI 48202. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS in cardiovascular research program focusing on signal transduction mechanisms contributing to the pathogenesis of heart failure. Two positions available to study the structural determinants for beta-adrenergic receptor targeting to membrane subdomains (caveolae), interactions with G proteins, and activation of intracellular signaling mechanisms that lead to contractile dysfunction and abnormal cardiomyocyte growth responses. Both positions require experience in molecular biology or intracellular signal transduction. Send curriculum vitae, brief statement of research interests, summary of research experience, and three letters of reference to: **Dr. Susan F. Steinberg, Department of Pharmacology, Columbia University, 630 West 168 Street, New York, NY 10032.**

POSTDOCTORAL POSITION in cellular neuroanatomy, auditory physiology, or cellular physiology. Study auditory network/systems structure, synaptic and ion channel properties of neurons in inferior colliculus, system reorganization resulting from deafness, or LTP in midbrain. Send curriculum vitae and letters of reference to: **Douglas Oliver, Ph.D., Department of Neuroscience, University of Connecticut Health Center, Farmington, CT 06030-3401 U.S.A. Website: <http://neuroscience.uchc.edu/>; e-mail: doliver@neuron.uchc.edu. Affirmative Action/Equal Opportunity Employer; Minorities/Females/Persons With Disabilities/Veterans.**

POSTDOCTORAL POSITION

Postdoctoral position available on NIH-funded project to study cellular and pharmacological basis of oromotor coordination in the brain stem. Microinfusion, chronic recording, and experimental neuroanatomical approaches. *JCN* 427:124-138, 2000; *Exp. Brain Res.* 130:78-92, 2000. Send curriculum vitae and names of three references to: **Dr. Joseph Travers, College of Dentistry, Ohio State University, 305 West 12th Avenue, P.O. Box 182357, Columbus, OH 43218-2357. E-mail: Travers.1@osu.edu.**

GLOBAL OPPORTUNITIES

POSTDOCTORAL POSITIONS NEUROBIOLOGY OF DRUG ABUSE

Positions are immediately available for individuals with a strong interest in the neurobiology of drug reward, addiction, sensitization, and relapse. Candidates should have either a Ph.D. or M.D. degree and experience in one or more of the following techniques: *in vivo* microdialysis, stereotaxic surgery, HPLC-ECD, and behavioral assays. Send curriculum vitae, bibliography, and names of three references (including e-mail addresses) to: **Dr. Niall P. Murphy, Neuronal Circuit Mechanisms Research Group, RIKEN Brain Science Institute, 2-1 Hirosawa, Wako-shi, Saitama, 351-0198, Japan. FAX: +81 48-467-7145; e-mail: nmurphy@brain.riken.go.jp.**

SYMPOSIA

13TH INTERNATIONAL SYMPOSIUM ON ADP-RIBOSYLATION

Targeting ADP-Ribosylation for Development of New Therapies
June 8-11, 2001
New York, New York, U.S.A.

This meeting will bring together academic and pharmaceutical industry Scientists to exchange the latest information on ADP-ribosylation reactions and update progress on targeting these reactions for new therapeutic approaches for cancer, heart attack, stroke, inflammatory diseases, and others. The meeting also will contain a unique "science meets business" session in which the potential for commercial development will be presented to members of the investment community. All details concerning the meeting can be found at website: www.ADPR2001.org.

COURSES & TRAINING

THE TRINITY SEMINAR 2001-2002

The Trinity College Center for Collaborative Teaching and Research announces the continuation of the Trinity Seminars. We invite nominations, including self-nominations, of recent advanced-degree recipients in any discipline to deliver a paper or appropriate performance presentation and spend two days in discussions with colleagues and students on campus in Hartford, Connecticut, during the academic year. We seek nominees doing especially exciting, innovative work; interested in engaging an interdisciplinary audience; and able to convey to us an informed access to recent issues in their disciplines. Travel expenses and honorarium will be provided. Submit nominee's curriculum vitae, brief description of current research, and one-page abstract of proposed presentation to: **Michael Niemann, Director, Trinity College Center for Collaborative Teaching and Research, Trinity College, Hartford, CT 06106. E-mail: michael.niemann@trincoll.edu. Selections commence April 15, 2001.**

MARKETPLACE

The World of Science Online

- Science Electronic Marketplace
- Science's Next Wave
- Science NOW
- Science Careers

Science

www.scienceonline.org

Vapor Pressure Osmometer

The preferred method of
measuring the osmolality
of any biological fluid.

WESCOR, INC. 1-800 453-2725

Circle No. 43 on Readers' Service Card

MARKETPLACE

DNA SEQUENCERS

ABI • Amersham MegaBACE • Licor
Also GCMS • HPLC • Automation Equipment
Find or sell high quality used equipment.
619.298.3531 www.BioBid.com

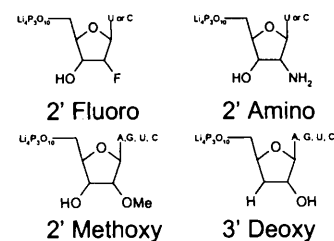
Circle No. 54 on Readers' Service Card

Custom DNA Sequencing GENEWIZ INC

1-2 day turnaround
\$16 per run, up to 700 bases
www.genewiz.com, 1-877-genewiz

Circle No. 39 on Readers' Service Card

Modified Triphosphates



We carry over 80 modified NTPs
Modified bases and sugars, dNTP and NTP
Custom Synthesis Available

TriLink BioTechnologies, Inc.
www.trilinkbiotech.com
Sales@trilinkbiotech.com
800-863-6801 fax 858-546-0020

Circle No. 28 on Readers' Service Card

Customized Project Support

CBI is your source for complete R&D project support, including all peptide, protein, DNA and molecular biological technologies. For a free consultation or a quote, call 1-800-735-9224 or email info@cbi-biotech.com.



**COMMONWEALTH
BIOTECHNOLOGIES, INC.**
From Concept to Clinic

601 Biotech Drive • Richmond, VA 23235
1-800-735-9224 • www.cbi-biotech.com

Circle No. 36 on Readers' Service Card

MARKETPLACE



**MORE PRODUCTS
ON PREVIOUS PAGE**

Be First - Go Custom!

Custom Peptides & Antibodies

- Leading manufacturer of phosphospecific antibodies
- Unsurpassed technical support

peptide@biosource.com

800-435-2080

order online at:

biosource.com

Circle No. 41 on Readers' Service Card

Custom BAC Library Construction

BAC End Sequencing \$37 (m1 DNA prep & 2 rxns)

Inexpensive DNA Sequencing
Custom cDNA Libraries
DNA Subcloning
Protein Expression

Amplicon Express
Toll Free 1-877-332-8080
Phone 1-509-332-8080
www.genomex.com
koford@genomex.com

Circle No. 40 on Readers' Service Card

QUALITY CUVETTES!!!

The only "Universal" electroporation cuvettes packaged with a sterile pipette for easy and efficient sample removal. Fits most popular brands of electroporators on the market.

1-800-289-2465
www.btxonline.com

Circle No. 42 on Readers' Service Card

ANTISENSE



- Next Generation antisense compounds
- Oligofectin™ cellular deliver compounds
- Detailed protocols
- High throughput phenotypic screening

Sequitur, Inc.

(508)650-1459 http://www.oligo.com

Circle No. 37 on Readers' Service Card

HS RECOMBINANT
HIGH PURITY PATHOGEN FREE

Numerous Applications:

- Cell & Tissue Culture
- Product Formulation
- Protein Stabilization
- Pharmaceutical R&D

Technical data and pricing available at
www.newcenturypharm.com

New Century Pharmaceuticals, Inc 256-461-0024

Circle No. 38 on Readers' Service Card

Premier Specialty DNA Synthesis

Molecular Beacons, RNA,
Antisense Oligos, Dual-Labeled
Fluorescent Probes & More.



www.idtdna.com
1-800-328-2661

Circle No. 31 on Readers' Service Card

MARKETPLACE

**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. 27 on Readers' Service Card

QUALITY DNA SYNTHESIS

MALDI-TOF Mass Spectrometry Quality Control

Fluorescent Dyes & Other Modifications
Gene Construction & Sequencing Services
Custom RNA Oligos & Antisense DNA Oligos
Custom Primers for PCR & Sequencing
Long Oligos (up to 150-mers)
Competitive Pricing

MIDLAND

The Midland Certified Reagent Company

1-800-247-8766 • FAX: 1-800-359-5789

www.mcrc.com • email: mcrc@oligos.com

Circle No. 33 on Readers' Service Card

3 O.D. Select Oligos

Just \$0.60/base*

Order through our Web site and we'll ship your 3 O.D. Select oligos in just 24-48 hours. Every oligo is QC'd by PAGE analysis, and each batch is performance-tested by mass spec.

*Desalted only. Oligos must be 10 to 35 bases in length. No modifications or additional purification. Web orders only. Offer valid in U.S. only.

SIGMA
GENOSYS

North America: 1-877-710-1504 • email: gorderentry@sial.com

Circle No. 35 on Readers' Service Card

CUSTOM PEPTIDES

QUICK QUOTE
MOST QUOTES IN AN HOUR

FAST DELIVERY
2 WEEKS FOR MOST ORDERS
100% SATISFACTION GUARANTEED

NEW ENGLAND PEPTIDE, INC.
Tel: 888-343-5974
Fax: 978-343-5940 www.newenglandpeptide.com

Circle No. 30 on Readers' Service Card

MERLIN® Custom Services



Adenovirus Production

Construction, Amplification,
Purification & Titration
Research or cGMP Grade

1-888-DNA-KITS • www.qbiogene.com

Circle No. 29 on Readers' Service Card

MARKETPLACE

BIO•SYNTHESIS, INC.

C
U
S
T
O
M

**Peptides, Oligos
& Antibodies**

800-227-0627 www.biosyn.com

Circle No. 32 on Readers' Service Card

Quality Peptides & Antisera

Friendly, Personal Service
www.genosys.com

Custom Peptide Synthesis

- sequence analysis
- IG, >70%, >80%, >95% purity
- scales from 2 mg-1 g
- synthesis up to 120 residues
- variety of modifications available
- mass spec & HPLC on every peptide
- satisfaction guaranteed

Polyclonal Antisera Service

- antigen design assistance
- synthesis, conjugation and sera collection
- flexible protocol

SIGMA
GENOSYS

North America

1-877-710-1502

ginformation@sial.com

Europe

(+44) (0) 1223 839000

info@sigma-genosys.co.uk

Circle No. 34 on Readers' Service Card

DNA	PEPTIDES
Free Set-up and Desalting	Call and Compare
Gene Synthesis, Site Mutagenesis, Protein Expression and more	
COMPARE AND SAVE	
DNA Sequencing: as low as \$15 per run	
Custom Anti-peptide Antibody (including peptide synthesis)	
\$850	
GENEMED SYNTHESIS	
800.344.5337 Fax: 650.952.9540	
Web Site: www.genemedsyn.com	

Circle No. 44 on Readers' Service Card

BAC End Sequencing! Bio S&T Inc.

High accuracy
Only TINY amount of
DNA required!

Custom BAC Libraries
Pre-made BAC Libraries avail.

New: HandyGun™ T4 Ligase Ready to use! Dry! Stable!
Web: **www.biost.com**
Fax: 514-633-6011

888-368-8368

Circle No. 26 on Readers' Service Card

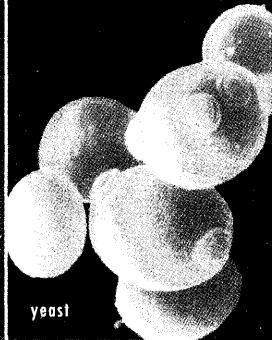
Custom DNA

Purified and delivered in 48 Hours
http://www.resgen.com

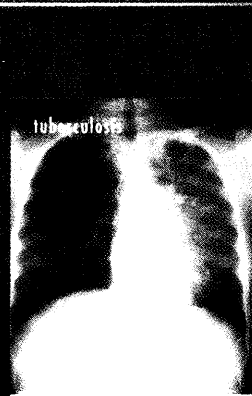
Research Genetics

1-800-533-4363

Circle No. 25 on Readers' Service Card



Array-Ready Oligo Sets™



The rest is up to you.

Operon's Array-Ready Oligo Sets are optimized 70-mers with a proven track record. All sets are designed in collaboration with leading scientists in their respective fields of expertise. The oligos are hybridization temperature normalized and are designed to hybridize at optimal positions within each gene or ORF. Each oligo has been sequence optimized using BLAST against a large data set and provides excellent sensitivity.

Visit our website at www.operon.com or call today for a price quote.

the *art* of Genomics™

OPERON
A QIAGEN COMPANY

(800) 688-2248 dna@operon.com www.operon.com

Circle No. 21 on Readers' Service Card

JUST RELEASED...

Pathways™ 3

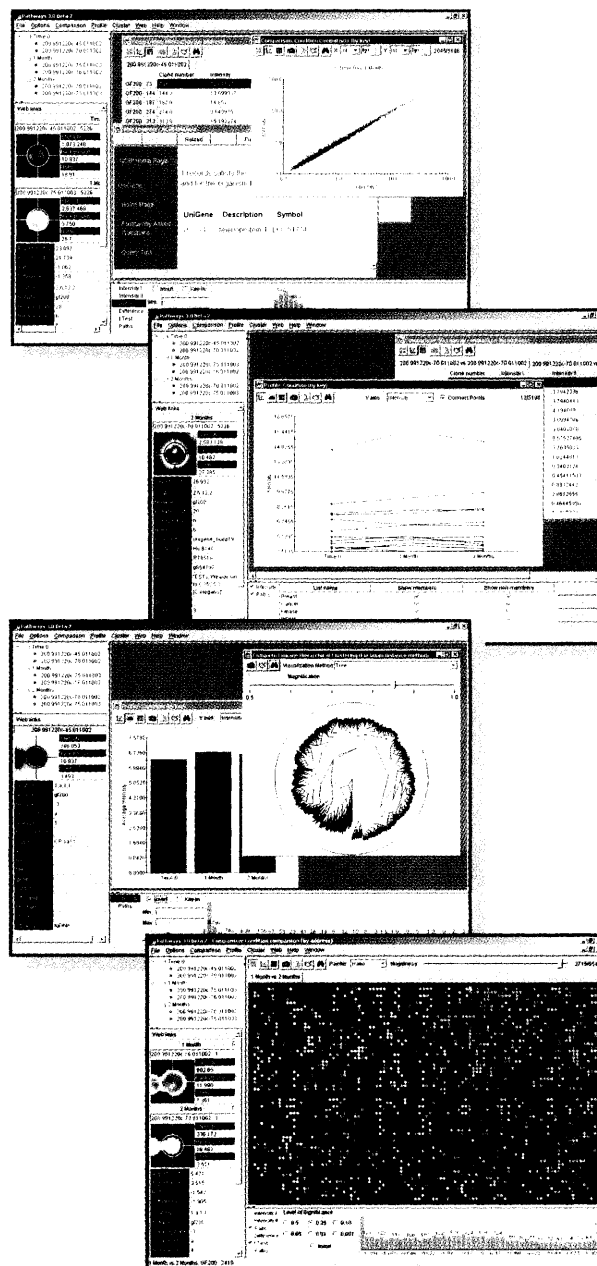
Microarray Analysis Software

Pathways™ 3 is a powerful software suite used for rapid and high quality analysis of microarray gene expression data. The combination of multiple advanced analysis techniques will unleash the potential for discovery within your microarray data.

Features of the Pathways™ 3 software suite include:

- **Image Analysis:** Rapid import of microarray images including a 'batch mode' which automatically imports Research Genetics GENEFILTERS images.
- **Data Analysis:** Multiple microarray types and multiple experiments can be combined into a single project for rapid, comprehensive data analysis. Multiple analysis types are provided including differential expression assessment with statistical confidence levels.
- **Data Visualization:** Complex microarray data is displayed in a variety of formats including scatter plots, synthetic microarray images, and spreadsheets.
- **Clustering:** Multiple clustering algorithms and cluster visualization techniques are provided for advanced data mining.
- **Web browser:** A fully integrated web browser allows live web links between a selected clone and UniGene, Genbank, Genecards, and other sites.
- **Updateable:** Subscribers to the Research Genetics data maintenance services can update their microarray data and Pathways™ plug-ins on a daily basis.

Pathways™ 3 has multiple plug-in interfaces so that the entire analysis process can be extended by simply modifying or adding plug-in components. Please contact us at pathways@resgen.com for more details on the plug-in interfaces.



© Research Genetics and Accelerating Discovery are U.S. registered trademarks/service marks of Research Genetics, Inc. (Huntsville, AL).

Headquarters:
Research Genetics
2130 Memorial Pkwy. SW
Huntsville, AL 35801
US or Canada
Tel: 800 533 4363
Worldwide 256 533 4363
Fax: 256 536 9016
<http://www.resgen.com>

European Headquarters:
Invitrogen BV
P.O. Box 2312
9704 CH Groningen
The Netherlands
Tel: +31 (0) 50 5299 299
Fax: +31 (0) 50 5299 281

Toll free order line
00800 5456 5456
Toll free technical support
00800 5345 5345
Toll free fax number
00800 7890 7890
Email: tech_service@invitrogen.nl

Research Genetics.
Accelerating Discovery.

an Invitrogen Company