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**Wide range of target sizes.** 200 ng K562 genomic DNA were amplified in duplicate with 1.25 units of PLATINUM *Pfx* DNA Polymerase or 2.5 units of *PfuTurbo* DNA Polymerase. PLATINUM *Pfx* DNA Polymerase reactions were assembled at room temperature, and *PfuTurbo* DNA Polymerase reactions were assembled on ice. Targets were 256-bp human beta globin (HBG); 1.0-kb, 1.8-kb, 5.2-kb, and 8.4-kb human myosin heavy chain (HMY HC); 2.7-kb, 4.5-kb, and 7.5-kb myelin oligodendrocyte glycoprotein (MOG); and 802-bp thrombospondin (TS) fragments.

## Introducing PLATINUM *Pfx* DNA Polymerase for the best performance in high fidelity PCR.

You no longer have to compromise on yield and specificity if you want low error rate PCR. New PLATINUM® *Pfx* DNA Polymerase combines the benefits of a novel and highly processive "proofreading" DNA polymerase with our hot start PLATINUM technology to provide you higher accuracy, yield, specificity, and sensitivity for the best high fidelity PCR available.

- **Higher Fidelity:** PLATINUM *Pfx* DNA Polymerase provides greater fidelity than *PfuTurbo*® DNA Polymerase.\*
- **Higher Specificity:** PLATINUM *Pfx* DNA Polymerase is precomplexed with specific antibodies that temporarily inhibit DNA polymerase and 3' exonuclease activities during PCR assembly and the initial step of PCR. This significantly reduces or eliminates non-specific amplification and mispriming.
- **Higher Yield and Sensitivity:** PLATINUM *Pfx* DNA Polymerase is a highly processive enzyme requiring fewer units per reaction and

less starting template, resulting in up to 20-fold greater yield than *PfuTurbo* DNA Polymerase.

- **Easy to Use:** Eliminates time-consuming optimization, permits room temperature setup, and facilitates ability to automate PCR.

PLATINUM *Pfx* DNA Polymerase is the latest addition to a growing portfolio of GIBCO BRL® products from Life Technologies designed to support the evolving research needs of the life scientist.

For additional information, contact TECH-LINE,™ TECH-ONLINE,™ or your Life Technologies representative.

Product	Cat No.	Size
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	11708-021	250 units
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\*unpublished test data

Purchase of these products is accompanied by a limited license to use them in the Polymerase Chain Reaction (PCR) process for research and development in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front license fee, either by payment to Perkin-Elmer or as purchased, i.e., an authorized thermal cycler. These products are sold under licensing arrangements with F. Hoffmann-La Roche Ltd, Roche Molecular Systems, Inc., and The Perkin-Elmer Corporation.

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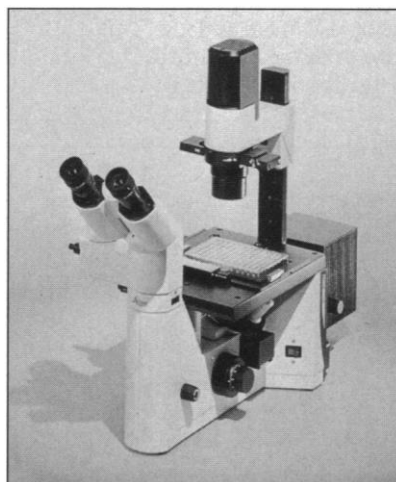
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DM IL HC is designed for brightfield, phase contrast, incident light fluorescence, and high-quality relief contrast, which can be produced with a new integrated modulation contrast technique that produces contrast without the need for special objectives. There is also a fluorescence model available for live cell imaging.

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## RT-PCR SYSTEM

The Enhanced Avian RT-PCR System offers an effective tool for reverse transcription of low-abundance messages and messages with difficult secondary structure, and subsequent high-fidelity amplification of the reverse transcriptase-polymerase chain reaction (RT-PCR) product. The first component of the system, Enhanced Avian Reverse Tran-

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CONTINUED ON PAGE 1282

scriptase, is suitable for transcribing low-abundance messages and for use with mRNA containing difficult secondary structure. This robust enzyme is very active at elevated temperatures, up to 65°C. The second component of the system, the AccuTaq LA polymerase mix, further ensures successful RT-PCR because its high-fidelity amplification incorporates fewer mistakes than standard Taq DNA polymerase.

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The BAS (Bio-imaging Analyzer System)-1800II is suited for high-throughput, macroarray image analysis. The instrument features a high level of quantitative accuracy, resolution, and linearity of data. It features an imaging area of 23 cm by 25 cm for use with 22 cm by 22 cm membranes. Optional macroarray analysis software is available for Windows 95, Windows 98, and Windows NT version 4.0. The BAS-1800II features patented phosphor imaging plate technology, which can prepare samples 10 to 100 times faster than with x-ray film

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with as little as 10% of the radioisotopes. The technology handles even tough-to-image wet samples. It offers an efficient, uniform, and sensitive room-temperature detection system superior to x-ray film with no need for a darkroom or chemicals. It offers high resolution and quantitative accuracy for numerous applications, including Southern (DNA) blotting, Northern (RNA) blotting, protein immunoblotting, one- and two-dimensional electrophoresis, x-ray diffraction, and other processes.

#### AUTOMATED PLATE SEALER

The ALPS (Automated Laboratory Plate Sealer) is designed for robotic integration that offers a fast and effective solution for heat sealing deep well, polymerase chain reaction, and microtitration plates. The versatile design accommodates plates of various heights and sizes. The unsealed plate is placed on a shuttle that is positioned away from the main body of the sealer, allowing a robotic arm full access. The shuttle is drawn into the unit automatically and the plate is

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sealed in 10 to 15 s, depending on the type of material. The shuttle then returns to its starting position, allowing the plate to be removed by a robotic arm.

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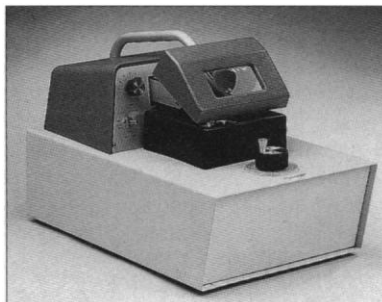
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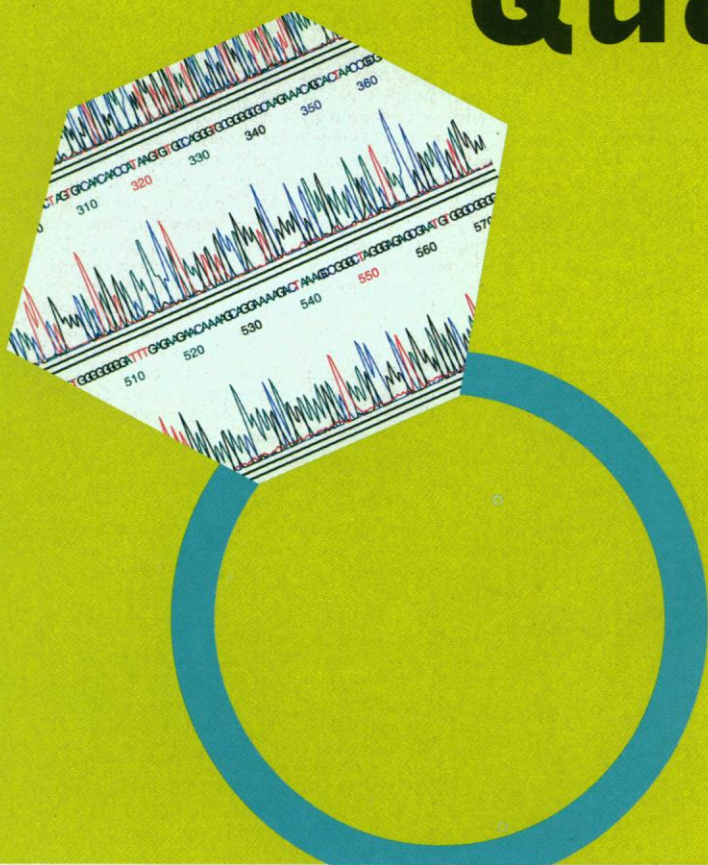
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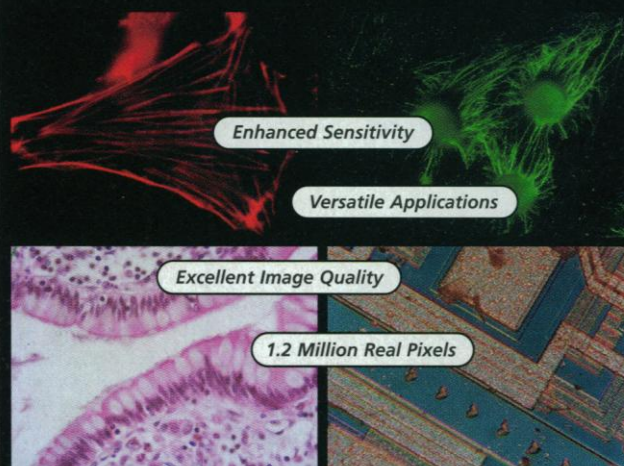
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### POSITIONS OPEN

#### FACULTY POSITIONS NEW YORK MEDICAL COLLEGE

The Department of Biochemistry and Molecular Biology invites applications from candidates with strong biochemical backgrounds and evidence of outstanding promise as scholars for two tenure-track faculty positions. Candidates should have the Ph.D. degree and have developed a strong research direction during their postdoctoral training. Preference will be given to applicants at the **ASSISTANT PROFESSOR** level although exceptional applications for appointment at the level of **ASSOCIATE PROFESSOR** will be considered. The research areas are open but we would like to recruit at least one individual with a strong background in protein structure-function relationships or signal transduction. Successful candidates will be expected to develop vigorous research programs and must be prepared to make a strong commitment to excellence in the teaching of medical and graduate students. New York Medical College is situated on an attractive campus in Westchester County, about 20 miles north of New York City. The College is committed to the expansion and development of the Department, and renovated space and start-up funding will be provided to the successful candidates. Applicants should provide a curriculum vitae, a narrative statement of research accomplishments and future research directions, reprints of recent papers, and the names of three references to: **Dr. Ernest Y. C. Lee, Chairman, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595.**

*New York Medical College is an Equal Employment Opportunity/Affirmative Action Employer.*

#### TWO FACULTY POSITIONS IN MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY

The Division of Biology at Kansas State University invites applications for two tenure-track **ASSISTANT PROFESSOR** positions beginning in the 2000/2001 academic year. We seek individuals who will establish strong, extramurally funded research programs in the general area of molecular, cellular, and developmental biology. These individuals will contribute to undergraduate instruction in molecular, cellular, and developmental biology, as well as graduate instruction in areas of interest. A Ph.D. or equivalent and postdoctoral training are required. Each position will include a competitive salary and start-up package. The Division of Biology is a large, diverse unit with a strong record of research productivity and funding, with both established investigators and five recently hired faculty in the area of the search (see [website: http://www.ksu.edu/biology](http://www.ksu.edu/biology)). Applicants should submit curriculum vitae, selected reprints, summaries of research and instructional interests, and have three letters of reference sent to: **Rob Denell, Chair, Molecular, Cellular, and Developmental Biology Search Committee, Division of Biology, Kansas State University, 232 Ackert Hall, Manhattan, KS 66506-4901.** Review of applications will begin on October 1, 1999, and continue until the positions are filled. *KSU is an Equal Opportunity Employer, and actively seeks diversity among its employees.*

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**Dr. Ernest Y. C. Lee**  
Chairperson, Search Committee  
Department of Biochemistry and  
Molecular Biology  
New York Medical College  
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**FULL-TIME FACULTY POSITION.** Due to recent expansion at the Health Professions Division, the Department of Physiology of the College of Medical Sciences at Nova Southeastern University has a new position available at the **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** level. The candidate's teaching responsibilities will include participation in team-taught human physiology courses to health profession students. The applicant will be requested to teach neurophysiology and renal or respiratory physiology at the medical school level. The College of Medical Sciences is located in the new Health Professions Division facility on the Fort Lauderdale campus. Salaries are competitive and dependent on qualifications, and fringe benefits are generous. This position is available immediately. We offer competitive compensation and outstanding benefits including tuition waiver. Please send or e-mail a letter of intent stating position desired, curriculum vitae, copies of graduate transcripts, and the names, addresses, and telephone numbers of three professional references to: **(HLF) Nova Southeastern University, Office of Human Resources, 3301 College Avenue, Fort Lauderdale, FL 33314.** E-mail in MS Word or Word/Note Pad Format, e-mail: [nsujobs@nsu.nova.edu](mailto:nsujobs@nsu.nova.edu). Visit our [website: www.nova.edu](http://www.nova.edu). *Affirmative Action/Equal Opportunity Employer.*

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## Postdoctoral Research Fellowships: Training in Cancer Cell Biology & Tumor Virology at Cold Spring Harbor Laboratory

**Cold Spring Harbor Laboratory** is a National Cancer Institute (NCI)-designated Cancer Center. Our NCI-training grant has recently been renewed and a number of postdoctoral fellowships are available to train highly qualified postdoctoral fellows with a broad expertise in basic cancer research. The program emphasizes a multidisciplinary approach, encompassing concepts and state-of-the-art techniques in molecular biology, biochemistry, protein chemistry, genetics, and cell biology. Specific research training is offered in the analysis of cell and molecular biology, cancer genetics, structural biology, bioinformatics and signal transduction under the guidance of one of the following Cold Spring Harbor Laboratory research faculty:

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The duration of fellowships is from one to three years. Interested candidates are encouraged to visit our web site at: [www.cshl.org](http://www.cshl.org) and to contact research faculty directly. Applicants should have a doctoral degree in a relevant discipline. Qualified candidates must be U.S. citizens or permanent resident aliens.

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Genetics Institute's first proprietary product, BeneFIX(r) Coagulation factor IX (recombinant), for the treatment of hemophilia B, received marketing licensure from the FDA in February 1997. The product was launched by GI's U.S. Sales Force and is being prescribed by practically all hemophilia treatment centers. BeneFIX(r) has received market licensure in Europe and Canada. GI's second proprietary product is Neumega(r) (Oprelevkin), the first platelet growth factor for the prevention of severe chemotherapy-induced thrombocytopenia. Neumega received marketing licensure from the FDA in November 1997.

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

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

## Laboratory Head-Mass Spectrometry

The department is focused on the development and application of analytical technologies for the characterization and analysis of recombinant glycoproteins. The candidate will help to define and implement MS-based strategies for the analysis of recombinant therapeutics. The position requires extensive knowledge in biochemical mass spectrometry and biochemical structural analysis as applied to glycoproteins and carbohydrates. Candidates should be comfortable working at the interface of analytical chemistry, biochemistry and cell biology. Additional experience in chromatographic separation methods (electrophoretic and chromatographic), micro-sample handling techniques or other methods for protein and carbohydrate structural analysis is beneficial. Prior experience in the biopharmaceutical industry is desirable.

Requires a Ph.D. in Biochemistry, Analytical Chemistry or related field/equivalent and 7+ years' experience. Prior management experience a must. Candidate should have excellent communication skills and the ability and desire to work in a multi-disciplinary, team-oriented environment. **Job Code: SCI-PG-857**

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Email: pgrafmuller@genetics.com

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PENNSTATE



## ASSISTANT PROFESSORS

### Dairy and Animal Science

**Molecular Physiology:** Tenure track position, starting February 1, 2000 or as negotiated. This position has a 60% research and 40% teaching responsibility. RESEARCH responsibilities involve conducting fundamental research in the areas of growth biology and/or nutrient metabolism in cattle or swine with emphasis on endocrine regulation of these biological processes. The successful applicant will be expected to develop an externally-funded research program that is nationally and internationally recognized. The successful applicant will be expected to work closely with colleagues interested in molecular and physiological approaches to regulating growth, lactation and nutrient metabolism. The TEACHING component of the position will involve advising students and teaching undergraduate and graduate courses in growth biology.

Requires a Ph.D. in animal science, physiology, biochemistry or molecular biology and a minimum of two years of postdoctoral training in the appropriate field. Respond to DR. RONALD S. KENSINGER at address below.

**Molecular Endocrinology/Developmental Biology:** Tenure-track position, starting April 1, 2000, or as negotiated. This position has a 70% research and 30% teaching responsibility. RESEARCH responsibilities involve conducting fundamental research in the area of molecular endocrinology in cattle or swine to complement current strengths in mammary gland biology, growth biology and reproduction. The successful applicant will be expected to develop an externally funded research program that is nationally and internationally recognized, and will also be expected to interact with colleagues in the Life Sciences Consortium with compatible interests in molecular biology and/or physiology. The TEACHING component of the position will involve teaching an undergraduate endocrinology course offered by the Department of Biology, and a graduate course in the successful candidate's area of specialty.

Requires A Ph.D. in animal science, physiology, biochemistry or molecular biology and a minimum of two years of relevant postdoctoral training. Track record of or evidence of significant potential for external funding. Respond to DR. GARY KILLIAN at address below.

Salaries are competitive, commensurate with background and experience. An attractive benefits package is available.

Applicants should submit a letter of application, resume, academic transcripts, a statement of research and teaching interests, and have three professional reference letters sent to:

Chair, Search Committee  
Department of Dairy and Animal Science  
324 W.L. Henning Building  
The Pennsylvania State University  
University Park, PA 16802

For more information about the Department see: [www.das.psu.edu/](http://www.das.psu.edu/)

CLOSING DATE: October 1, 1999 or until a qualified candidate is identified.

Penn State is committed to affirmative action, equal opportunity and the diversity of its work force.

## SYSTEMS SPECIALIST/ SR COMPUTER SCIENTIST

Join an interdisciplinary team at the Medical College of Wisconsin's Max McGee Diabetes Research Center, and apply quantitative methodologies using advances from the Human Genome Project to dissect pathways leading to diabetes and other common diseases. Seeking postdoctoral level researcher or junior faculty in either Computer Science, Statistics or Mathematics, with strong quantitative background and interest in exploring applications with an eventual benefit to the treatment of human disease. We are interested in training future leaders in the field of quantitative genomics who wish to make major methodological advances and need exposure to the fast-paced field of genetics to gain entrance to the field.

Competitive salary and benefits package offered. Interested candidates may send a curriculum vitae with names and addresses of 3 references to:

Medical College of Wisconsin  
Attn: Soumitra Ghosh, M.D., Ph.D.  
8701 Watertown Plank Rd, MFC756  
Milwaukee, WI 53226  
Fax: 414-456-6663  
E-mail: sghosh@mcw.edu



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October 17-21, 1999

Lake Tahoe, California

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**Scientific Committee:** James Bailey, Alain Bernard, Frank Graham, Don Jarvia, Tom Kost, Kenneth Lundstrom, Garry Nolan, Ernst-Jurgen Schlaeger.

Information, registration and abstract submission at: <http://biochem.roche.com/4GDCPE>

**Abstracts deadline extended to September 1, 1999.**

Inquiries [balwant.patel@roche.com](mailto:balwant.patel@roche.com)  
FAX: (USA) 510-883-0636

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### Senior/Staff Scientists (Orthopedic and Skin Research)

The Wound Healing Technology Resource Center, located in Skillman, NJ, conducts research to develop and evaluate new technologies related to wound healing and orthopedic devices. Currently, two vacancies exist, one in the Skin Research Group and another in the Orthopedic Research Group.

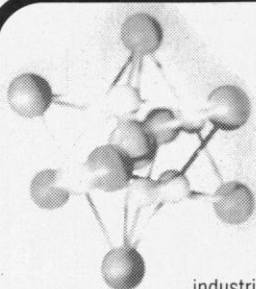
In both positions, the selected candidates will be involved in the in-vitro evaluation of potential prototypes and technologies related to either skin tissue engineering or orthopedic tissue engineering respectively. For either position, you should have either a Ph.D or M.D. and experience in molecular biology, cell biology and biochemistry, along with experience in either skin or orthopedic tissue engineering. Experience in 3-D culturing techniques or in methods for evaluating the differentiation of relevant tissues would be especially useful. Excellent computer, communication and interpersonal skills are essential. You will be expected to manage research programs and give written and oral reports on your work, both within the company and at scientific meetings.

As a valued team member, you'll receive a competitive salary and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. We strongly encourage individuals to apply on-line at [www.jnj.com](http://www.jnj.com) or forward a scannable resume, noting Reg # 992651SCI (Orthopedic Research) or 992652SCI (Skin Research) to: Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer totally committed to diversity.

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## PATHOLOGIST

### SEATTLE

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant.

As a subsidiary of NOVO NORDISK, the world's largest producer of

industrial enzymes, ZymoGenetic's mission is to identify protein therapeutic opportunities

and to take selected projects as far as clinical proof-of-concept studies. We offer intellectual challenge, state-of-the-art facilities, and a generous benefits package.

We are seeking a Pathologist to join our Experimental Pathology group at the Scientist/Sr. Scientist level. The successful candidate will aid in the design and microscopic evaluation of animal studies for the elucidation of the biology and therapeutic uses of novel proteins. Strong interpersonal, verbal, and written communication skills are required. Must have a DVM or equivalent degree, a Ph.D. in pathology or related field and experience in rodent pathology, including the pathology of genetically engineered mice. Board certification and experience in immunohistochemistry are highly desirable.

Job description and salary are commensurate upon experience. For confidential consideration, forward your resume and cover letter noting Job Reference #35N599 to: ZymoGenetics, Inc., Attn: Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. Fax: (206) 442-6658. E-mail: [jobs@zgi.com](mailto:jobs@zgi.com). Equal Opportunity Employer.

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### BS/MS Molecular Geneticist

The successful candidate will perform Molecular Genetics experiments in the Plant Targets group. This position requires a bachelor's degree in Genetics, Plant Biology, Molecular Biology, or related field, and at least five years of previous laboratory experience. Candidates with a master's degree are also encouraged to apply. A high level of proficiency with molecular biology techniques is expected. Ability to work independently and productively as part of a team, analytical and problem solving skills, and enthusiasm are key qualities. We have a strong preference for someone with experience in Bioinformatics and DNA sequence analysis. Familiarity with plant biology is beneficial.

Novartis offers a competitive salary commensurate with experience, a comprehensive benefits package, and an environment conducive to professional achievement. For prompt consideration, paste your resume, followed by your cover letter, into the body of an e-mail and send it to [novartisbiotech@hiresystems.com](mailto:novartisbiotech@hiresystems.com). Please indicate Position 9951-SM-BRI in the subject area of the e-mail. An Equal Opportunity Employer.

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visit our website at: [www.novartis.com](http://www.novartis.com)





## St. Jude Children's Research Hospital

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### POSTDOCTORAL POSITIONS

Two postdoctoral fellow positions are available immediately in the laboratory of Vincent J. Kidd, Ph.D. to study NIH-funded projects concerning the 1) mechanisms of apoptotic signaling in human neuroblastomas, or 2) CDK regulation of transcription/RNA processing. Ongoing projects related to neuroblastoma are focused on determining why specific apoptotic genes are silenced in certain tumors and how these alterations impact the ability of tumor cells to undergo drug- and radiation-induced cell death. Projects related to CDKs and transcription/RNA processing currently emphasize the role of phosphorylation in the assembly of both active and inactive RNA polymerase II complexes, as well as regulation of CDK activity. Descriptions/lists of publications can be found at [www.stjude.org](http://www.stjude.org). Experience in molecular biology, cell culture and genetic manipulation of mice is beneficial for the cancer studies, and experience in protein biochemistry/purification and molecular biology would be beneficial for the CDK studies. Applicants must either have a Ph.D., M.D./Ph.D., or M.D. degree, or be currently enrolled in a graduate program and completing their degree. Please send a current C.V. and the names and addresses of three references to:

Vincent J. Kidd, Ph.D.  
Department of Tumor Cell Biology  
St. Jude Children's Research Hospital  
332 N. Lauderdale  
Memphis, TN 38105



## St. Jude Children's Research Hospital

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### Postdoctoral Positions —Ion channels and synaptic plasticity

Postdoctoral positions are available to study the mechanisms of synaptic plasticity with an emphasis on the role of excitatory amino acid receptors in cerebellar LTD. Projects utilize a combination of electrophysiology and molecular biology techniques including the generation of transgenic and knockout mice. The Department of Developmental Neurobiology comprises a strong, collaborative group of molecular neuroscientists. (See <http://www.stjude.org/departments> for details). The ideal candidate will have training in patch-clamp recordings from neurons and/or in molecular neurobiology. Please send a C.V., statement of research interests, and names of three references to:

Michisuke Yuzaki, M.D., Ph.D.  
Department of Developmental Neurobiology  
St. Jude Children's Research Hospital  
332 N. Lauderdale, Memphis, TN 38105.  
E-mail: [michi.yuzaki@stjude.org](mailto:michi.yuzaki@stjude.org)

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## St. Jude Children's Research Hospital

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### FELLOWSHIP TRAINING OPPORTUNITIES IN PEDIATRIC HEMATOLOGY/ONCOLOGY

St. Jude Children's Research Hospital, a premier treatment and research center for pediatric oncology, invites applications for subspecialty training in Pediatric Hematology/Oncology. This three-year program includes one year of comprehensive clinical training in both hematology and oncology, followed by two years of intense research experience. The goal of our program is to train the future leaders in academic Pediatric Hematology/Oncology in the United States. With this goal in mind, we have also established a four-year program that includes three years of supported research specifically designed to training physician scientists. Opportunities for research are available within many internationally recognized programs, including Cancer Prevention and Control, Hematological Malignancies, Molecular Oncology, Molecular Therapeutics, Neurobiology and Brain Tumors, Signal Transduction, Solid Malignancies, Transplantation and Gene Therapy and Viral Oncogenesis and Tumor Immunology. Please visit our website at [www.stjude.org](http://www.stjude.org).

Applicants should contact:

Jeffrey E. Rubnitz, M.D., Ph.D.  
Director, Hematology/Oncology Fellowship Training Program  
St. Jude Children's Research Hospital  
332 N. Lauderdale Street  
Memphis, TN 38105  
Telephone: (901) 495-2388  
FAX: (901) 521-9005  
Email: [jeffrey.rubnitz@stjude.org](mailto:jeffrey.rubnitz@stjude.org)

Stratagene, a leader in the development and manufacture of molecular biology research products in San Diego, California is seeking an experienced scientist for the following position.

### STAFF SCIENTIST/ SENIOR STAFF SCIENTIST

The successful candidate will focus on the development of novel eukaryotic viral expression and delivery systems. Requires a PhD in Molecular Biology or Cell Biology and at least 2-5 years postdoctoral experience. Candidates should have extensive experience in the construction and use of adenoviral vectors. Experience with lentiviral and retroviral systems is highly desirable. Strong practical knowledge of eukaryotic gene expression and mammalian gene structure with an exceptional understanding of eukaryotic transcription is essential. Knowledge of transgenic animal production, mammalian physiology and pharmacology, inducible expression systems, cDNA library construction and screening, and skill in the use of ES cells are highly preferred. A proven track record of technological innovation is highly desired. Strong written and verbal communication skills are musts.

Interested candidates, send curriculum vitae, indicating Job Req. JCB-99A, to: STRATAGENE, 11011 N. Torrey Pines Rd., La Jolla, CA 92037, Attn: Professional Staffing. Drug and alcohol testing required. AA/EOE.



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## UNIVERSITY OF MICHIGAN BIOLOGICAL SCIENCES SCHOLARS PROGRAM

The University of Michigan Medical School announces the continuation of the Biological Sciences Scholars Program to enhance investigational strength in the life sciences at the University of Michigan.

Now entering its third year, this program led to the recruitment of outstanding young scientists in the areas of human transposable elements, molecular virology, structural biology, and stem cell biology. Individuals recruited will have the following qualifications: PhD, MD, or MD/PhD degrees; two years minimum postdoctoral experience; and evidence of superlative scientific accomplishment and scholarly promise. Successful candidates will be expected to establish a vigorous, externally-funded research program; and to become leaders in departmental and program activities, including teaching at the medical, graduate, and/or undergraduate levels. Primary college and department affiliation and rank will be determined by the applicant's qualifications. Preference will be given to appointments at the Assistant or Associate Professor levels.

Applicants should send their current curriculum vitae (including bibliography), three letters of support, and a two to four-page summary of their current research program and future research plans to:

Michael A. Marletta, PhD c/o Nili Tannenbaum  
University of Michigan Medical School  
Office of Research and Graduate Studies  
M7300(S) Medical Science Building I  
Ann Arbor, MI 48109-0624

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## RESEARCH ASSOCIATES

Amgen, a leading biopharmaceutical company, is seeking Research Associates to screen anti-cancer drugs using in vivo human tumor xenografts and rodent syngeneic tumor models. Primary responsibilities include tumor implantation, oral or parenteral drug administration, and monitoring of tumor growth and metastases.

Successful candidates will have a BS or MS in biology, pharmacology or related subjects with 3-4 years of in vivo tumor biology research experience. Candidates with experience in cell culture, including in vitro clonogenic and survival assays preferred. Amgen offers excellent compensation and benefits in a beautiful, campus-like environment about one hour northwest of Los Angeles.

Please mail your CV (on plain white paper using standards fonts - no bullets, italics, underlining or bold) to: **Amgen, Staffing, Ad Code: 365, P.O. Box 2569, Thousand Oaks, CA 91319-2569.** E-mail your ASCII text CV to: **jobs@amgen.com** Visit our website at **www.amgen.com** Principals only, please. EEO/AA Employer M/F/D/V.



## PRODIGENE

A world leader in expression and purification of recombinant proteins in plants invites applicants for full-time positions. All candidates should be highly motivated, possess excellent communication skills, and desire to work in a high performance environment with multidisciplinary teams. All candidates will need to have excellent skills in project management and in interactions with people.

### Research Scientist, Protein Biochemistry

The successful candidate will join our protein biochemistry team and be responsible for hands-on analysis and development of assays for specific proteins, as well as purification and characterization of these proteins. This position requires a Ph.D. or equivalent in biochemistry. Experience in enzymology and protein purification and characterization is essential. Preference will be given to those candidates with supervisory experience.

Please mail or fax your letter of interest and include a complete resume and the names of three professional references to: **Liz Eickenhorst, ProdiGene, 101 Gateway Boulevard, Suite 100, College Station, TX 77845. Fax (409) 690-9527**

Public Health Service  
National Institutes of Health  
National Institute of Neurological  
Disorders and Stroke  
Laboratory of Molecular Medicine  
and Neuroscience

### POSTDOCTORAL POSITION

Applications are invited for a postdoctoral (Ph.D. or M.D.) position, available immediately, in Bethesda, MD, at the level of Research Fellow or IRTA Fellow to study the pathogenesis of neurotropic viruses, JC virus and HIV in human brain cultures. The studies will include in part 1) the identification of cell types and cellular factors involved in the establishment of a latent or persistent infection leading to neurological involvement by the viruses, and 2) the identification of *cis*- and *trans*-acting factors required for viral gene expression in human brain cells. These studies will also require the cloning and characterization of the gene(s) of the factor(s) involved in viral gene expression.

These studies will require several years experience with molecular biological techniques including manipulation and characterization of DNA and RNA and gene amplification using PCR techniques. Some experience with protein biochemistry and tissue culture would be helpful. Salary will be commensurate with experience and qualifications.

For position, information and qualification requirements contact Mr. Glenn Hartzoge, 301-496-5468.

Please send a curriculum vitae, the names of three references, and a brief summary of research accomplishments and interests to:

**Dr. Eugene O. Major,  
Laboratory of Molecular Medicine and  
Neuroscience, NINDS, NIH, Building 36, Room  
5W21, 36 Convent Drive, MSC 4164,  
Bethesda, MD 20892-4164**

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If you are unable to visit us online, you may contact us at: 1-800-490-4700.

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For additional information about these and other opportunities with the FBI, please visit our web site:

**www.fbi.gov**

Merck Research Laboratories, a world leader in Biological and Pharmaceutical Research, has an opening for a Senior Research Biochemist in the Targeted Assay Group of the Natural Products Drug Discovery Division.

## BIOCHEMIST

The selected candidate will be responsible for developing assays, screening natural products and communicating results and coordinating efforts with other scientists. The candidate should possess a Ph.D. in Biochemistry or a related subject with 2+ years of experience. Good communication, computer and data management skills are required. Experience in high-throughput screening and SPA, HTRF, FRET, ELISA is highly desired. Candidates must show appropriate documentation to work in the United States.

Merck Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. For consideration, send your resume, with three letters of reference to Merck Research Laboratories, Human Resources, AD #99, P.O. Box 2000, RY80-A3, Rahway, NJ 07065. EOE/AA/V/H/ Employer.



## Science

### Technical Comment and WWW Editor

Join the expanding team at *Science* and *Science Online*. *Science* is soliciting applications for a new position of Associate WWW Editor. This individual will work with the scientific editors to handle the review, editing, and selection of Technical Comments (published in *Science Online*); to coordinate, evaluate, and update the other editorial content on *Science Online*; and to help oversee development and growth of our WWW site. We seek applicants with broad interests in science and electronic publishing and familiarity with communicating technical information in electronic formats. Applicants should have at least a B.S. degree in a scientific field and 5 years of experience in science, editing, and electronic publication. The position is for our Washington, DC, office.

To apply, please submit a cover letter describing your qualifications and salary requirements, résumé, and contact information for three or more references to:

Mr. Gregory Stokes  
American Association for the Advancement of Science  
Human Resources Department, Suite #100  
1200 New York Avenue, NW  
Washington, DC 20005

EOE/Non smoking work environment

## TENURE TRACK INVESTIGATOR

Two Tenure Track Investigator positions are available to study *Drosophila* genetics and Cell Cycle Checkpoints in the Regulation of Cell Growth Laboratory (RCGL), Division of Basic Sciences, National Cancer Institute, Frederick Cancer Research and Development Center (NCI-FCRDC) in Frederick, Maryland.

***Drosophila* genetics.** This position requires a strong background in the use of *Drosophila* as a genetic system. Candidates whose research emphasizes genetic approaches to the study of cell cycle control, signaling pathways or development biology are especially encouraged to apply. The successful candidate will become part of an expanding community of *Drosophila* researchers within the RCGL and at the NCI-FCRDC.

**Cell Cycle Checkpoints.** Candidates whose research focuses on molecular mechanisms of cell cycle regulation, oncogenesis or signal transduction are encouraged to apply. However, exceptional candidates in other areas of molecular biology will also be considered.

The successful candidates for these fully funded groups will recruit and supervise a staff of several associates and will have at least two years of postdoctoral experience. The RCGL provides a highly interactive, collaborative environment, including existing groups with expertise in cell cycle regulation, tumor suppressor genes, signal transduction, regulation of gene expression and apoptosis.

If interested, please send your curriculum vitae, a one to two page statement of research interests and three letters of recommendation to Dr. Karen Vousden, Building 560, P.O. Box B, NCI-FCRDC, Frederick, MD 21702.

The National Institutes of Health is an equal opportunity employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, marital status, physical or mental disability, age, sexual orientation or membership or nonmembership in an employee organization.

## Ph.D Pharmacokineticists

Hoechst Marion Roussel, a world leader in pharmaceutical based healthcare, is dedicated to extending and enhancing human life through the discovery, development & manufacture of innovative products. We are currently seeking 2 Ph.D. Pharmacokineticists for our ADME group in Bridgewater, N.J.

The selected candidates will be responsible for the conception, design & implementation of pharmacokinetic & biopharmaceutic studies for routine & non-routine new drug entities, & will prepare IND/NDA submissions using study findings.

Requires a Ph.D. in Pharmacokinetics, Biopharmaceutics, Pre-Clinical or Clinical Pharmacology or Ph.D. in a Biological Sciences discipline, including ADME screening background & a min. of 4 yrs. related exp. including advanced knowledge of pharmacokinetics, biopharmaceutics, pharmacology, toxicology & drug metabolism; a good understanding of the principles & practices of applications including trace analysis, metabolism, protein binding & red cell blood distribution.

Experience writing reports & regulatory submissions (INDs, NDAs) utilizing understanding of FDA guidelines, GLPs, GCPs, & other regulatory guidelines are necessary. Must possess (as evidenced by publications & presentations) and maintain specialized knowledge within field, ADME screening exp. (required with degree in biological sciences), as well as demonstrated written/verbal communication skills. Ability to lead & participate in multidisciplinary project teams is also required.

Hoechst Marion Roussel provides a competitive salary with a flexible benefits program, a company Performance Sharing Plan & immediate participation in 401(k) Savings & Retirement Plans. For consideration, mail your resume (suitable for scanning) with salary history/reqs. to: **Staffing Manager, B103-D, Ref# 1999BW0005, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, NJ 08807-0800, or e-mail: jobs@hmr.com**

For additional company information, we invite you to visit our website: [www.hmri.com](http://www.hmri.com)

**Hoechst Marion Roussel**

**Hoechst**

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# Creating Drugs

Tularik Inc. is a rapidly growing, privately-held biopharmaceutical company dedicated to the discovery and development of novel therapeutic agents. Our growth has seen the recent completion of a second, state-of-the-art research building on our campus in South San Francisco, further increasing our capacity to provide full, leading-edge research and creative drug discovery. Tularik currently has ongoing projects in the areas of viral diseases, inflammation, hypercholesterolemia, immune disorders, obesity, bacterial diseases, cancer, and orphan nuclear receptors. We currently have exciting career opportunities for several dedicated professionals to join our interdisciplinary R&D team.

## Postdoctoral Scientist

### Orphan Nuclear Receptor Program

The Orphan Nuclear Receptor team seeks a Postdoctoral Scientist to join us in the discovery of new hormones and the identification of molecular mechanisms by which nuclear receptor signaling affects disease. Qualified candidates will have expert skills in molecular biology and a strong background in either protein biochemistry or nuclear receptor research. Experience in the analysis of knock out phenotypes is desirable. The successful candidate will be an energetic self-starter who thrives on the challenge. Excellent communication skills and the ability to work in a team environment are essential. (Position Code: JL)

## Scientist

### Drug Discovery

Tularik's Drug Discovery team has an opportunity for a Ph.D.-level Scientist to join our Bacterial Diseases Program. The successful applicant will supervise ongoing biochemical high throughput drug screens and will contribute to the design, development and implementation of novel approaches to antibiotic drug discovery. Additional responsibilities include basic research relating to the mechanism of action of newly-identified antibacterial compounds. Experience in protein biochemistry, enzymology and molecular biology is essential; prior experience with assay development and HTS is desirable. (Position Code: KL)

## Veterinarian/Pathologist

We are seeking an experienced Veterinarian/Pathologist (DVM/VMD), preferably with lab animal expertise, to develop, maintain and monitor an effective and compliant animal care and use program at Tularik, manage the animal husbandry staff, and function as the company's attending veterinarian. In addition, this position carries a substantial R&D responsibilities, including histopathology evaluation and reporting for preclinical studies and/or development of animal models of disease in support of drug discovery and development. The successful candidate will have at least 4 years of experience in laboratory animal facility management, as well as experience with animal model development and/or histopathology. Board certification in pathology would be a significant advantage. (Position Code: MT)

Tularik offers productive and experienced leadership, employee stock options, a competitive salary and benefits package, and a collaborative, stimulating research environment that recognizes achievement. For consideration, please submit your CV to:

EOE

**Tularik Inc.**

Human Resources

Attn: Position Code \_\_\_\_\_

Two Corporate Drive

So. San Francisco CA 94080

Fax: (650) 829-4303

email: [resume@](mailto:resume@tularik.com)

[tularik.com](http://tularik.com)



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The NASA Headquarters Office of Space Science, Research Program Management (RPM) Division, Washington, DC, announces the following senior-level scientist vacancies:

**Senior Scientist for Astrobiology.** Announcement No. HQS-SST-99-01. This senior scientist will lead the development of NASA's Astrobiology Program, which includes exobiology and evolutionary biology, and will provide scientific and technical advice on all aspects of the Agency's Astrobiology Program.

**Senior Scientist for Space Science Research.** Announcement No. HQS-SST-99-02. This senior scientist will serve as senior science advisor for multi-disciplinary research in space science and oversee mission operations and data analysis programs, during the observing phases of space science missions.

**Senior Scientist for Planetary Protection.** Announcement No. HQS-SST-99-03. This senior scientist will oversee the development and monitoring of NASA's Planetary Protection Program principles and their implementation on space flight missions.

All positions require education and experience equivalent to a Ph.D. in an appropriate space science discipline; ability to organize and oversee scientific research, instruments, and mission selection processes; and the ability to communicate orally and in writing to both professional and non-professional audiences. Additional qualification requirements are listed in the referenced vacancy announcements.

Detailed vacancy announcements, including application instructions, can be found under Senior Executive positions at <http://www.usajobs.opm.gov> or a copy can be obtained by calling (202) 358-0347 or (202) 358-1588.

These are full-time, permanent civil service positions. Salary range: \$110,351 - \$125,900 p.a. Applications must be postmarked no later than September 15, 1999, and sent to NASA Headquarters, Human Resources Management Division, Code CP, Attn: Wendy Davis, Washington, DC 20546-0001.

Questions of a technical nature concerning these positions may be directed to Dr. Guenter Riegler, Director, Research Program Management Division, at (202) 358-1588.

## POST-DOCTORAL

## RESEARCHER RNA PROCESSING

Isis Pharmaceuticals, located in North Coastal San Diego County, is engaged in the discovery and development of novel human therapeutic compounds. The success of our antisense technology has resulted in recent FDA approval of our drug Vitravene™ for AIDS-related blindness. We now have a position available for a Post-Doctoral Researcher to join a group studying the mechanisms of antisense oligonucleotide activity. The successful candidate will evaluate the effect of antisense oligonucleotides on 3' end processing of pre-mRNA. Experience with RNA analysis, basic molecular biology techniques and cell culture desired.

Isis offers competitive salaries and excellent benefits. Please send resume to: **Isis Pharmaceuticals, Code 339, 2292 Faraday Ave., Carlsbad, CA 92008.** Fax: (760) 603-2700. Web site: [www.isip.com](http://www.isip.com) Principals only. No phone calls please. EOE.

**ISIS PHARMACEUTICALS**

### VION PHARMACEUTICALS, INC.

Vion Pharmaceuticals, Inc. is a biopharmaceutical company engaged in the discovery, development and commercialization of cancer treatment and antivirals. We are seeking qualified individuals for the following position:

#### Research Associate In Vivo Tumor Biology

Responsible for in vivo tumor biology experimentation, including cell culture and in vivo drug screening. Candidates must have at least 2 years experience in tumor modeling, and be skilled at IV/IP injections, histology and immunohistochemistry. BS in a biological science is required; MS preferred.

Please send resume with salary requirements and letters of reference to:

**Vion Pharmaceuticals, Inc.**  
Four Science Park  
New Haven, CT 06511  
Attn: Human Resources  
Fax: 203-498-4211  
E-mail: [jobs@vionpharm.com](mailto:jobs@vionpharm.com)

**VION**  
PHARMACEUTICALS, INC.

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Georgia State University  
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Rockefeller University  
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Thomas Jefferson University  
Uniformed Services University of the Health Sciences  
University of Albany, State University of New York  
University of California, Santa Barbara  
University of Chicago  
University of Cincinnati  
University of Connecticut  
University of Ottawa  
University of Oklahoma Health Sciences Center  
University of South Alabama  
University of Toronto

For more information contact:

**USA: BREN PETERS**  
Ph: (202) 326-6541 • Fx: (202) 289-6742  
E-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org)

**Europe: DEBBIE CUMMINGS**  
Ph: +44 (0) 1223 326500 • Fx: +44 (0) 1223 326532  
E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

**ACADEMIC CONNECTIONS**  
Science's online graduate program index

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- Women's Health Cardiovascular
- Endocrinology

#### **MARIETTA, PA**

##### ***Research Scientist – Viral Vaccine Department***

Perform bench-scale process development for the Viral Vaccine Development Department. Apply your knowledge in virology and cell biology to design and execute experiments to determine optimal cell culture and virus infection processes. Experience working with human influenza viruses is desirable. Excellent verbal and written communication skills are a must. Ph.D. with postdoctoral experience in virology, cell biology, or a related field. **Job Code: E-27**

##### ***Principal Research Scientist – Viral Vaccine Assay***

Develop and validate analytical methods for the testing and characterization of native and recombinantly expressed viral proteins and DNA vaccines. Strong background & knowledge of the structure/function of protein and DNA vaccines, and ability to develop analytical methods to evaluate stability of vaccine essential. Additional responsibilities will include writing and analyzing research plans, SOPs, validation protocols and reports. Expertise in membrane proteins, glycoproteins, and nucleic acid characterization necessary. Knowledge of assay and instrument validation requirements and basic statistics preferred. Ph.D. in Biochemistry, Protein Chemistry or related field + 8 in industrial, governmental, or academic position involving biochemistry or protein chemistry preferred. **Job Code: E-28**

##### ***Senior Research Scientist – Formulation and Vaccine Delivery***

Work closely with our Collaborator to finalize first and second generation of final dosage forms for a new viral vaccine. Work on formulation development of liquid and lyophilized products, perform pre-formulation characterizations and screening studies, and support technology transfers of formulation process to manufacturing group. Strong background in a majority of analytical methods, DSC, light scattering and other biophysical tools, and excellent written and verbal communication skills required. Ph.D. in Pharmaceutical Science, Chemistry or Chemical Engineering + 4 of industrial experience in formulation development and novel drug delivery technology. **Job Code: E-18**

##### ***Principal Validation Specialist***

Possess solid knowledge/experience in all technical areas of validation and provide technical direction/review to Validation Section staff. Handle all aspects of project management, process/product validation studies, and validation projects including Installation Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ). Requirements include a B.A. in Engineering (preferably Chemical), Microbiology, Pharmacy, Chemistry, Biology, or related field along with a minimum of 9 years of experience in manufacturing, process support, validation or a related area, or an MA with a minimum of 7 years of relevant experience. Excellent knowledge of current regulatory trends and cGMPs is necessary. **Job Code: E-10**

For the above positions, please forward your resume, referencing the appropriate job code and salary requirement, to: Wyeth-Ayerst, P.O. Box 304, Marietta, PA 17547. Fax in fine mode to: (717) 428-4501.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, childcare subsidies, flextime, business casual Fridays, educational assistance and professional development programs. For more information, please visit us at <http://company.monster.com/wyay/> Principals only. Equal Opportunity Employer, M/F/D/V.

#### **RADNOR, PA**

##### ***Research Scientist – Women's Health Cardiovascular***

Demonstrate expertise in the areas of biochemistry/cell biology and participate in projects as they relate to hormonal/growth factor mediated control of abnormal tissue growth and programmed cell death. Supporting projects, providing pre-clinical bench support, and performing research of cellular growth control for therapeutic targets. Hands-on experience in cloning and gene expression techniques and protein biochemistry/tissue culture skills are essential. B.A. + 10 or M.A. + 8 with prior experience in cell biology is a must.

##### ***Principal Research Scientist – Women's Health Cardiovascular***

Design, implement and interpret vascular contraction/relaxation/biochemical studies in this highly visible position. Duties will include video imaging of micro vessels, biochemical assessments, and collaboration on mechanistic assessment through the utilization of appropriate molecular techniques. Ph.D. + 12 is preferred, along with exceptional background in relevant field.

##### ***Senior Research Scientist – Women's Health Cardiovascular***

Focus on T-cell function and differentiation. Possess strong skills in isolating cells of the immune system as well as characterizing cytokine production at both a molecular and biochemical level. Knowledge of the processes involved in autoimmune disease development is also required. In addition, experience in the role of estrogens in these processes is highly desirable. Ph.D. + 2 is preferred with relevant experience.

##### ***Senior Research Scientist – Molecular Biology***

Establish model systems for neurosteroid action in the central nervous system (CNS), including estrogens and progestins, and determine the mechanisms involved. Ph.D. + 5, a strong background in cell and molecular neurobiology, and a track record for independent thinking required.

##### ***Research Scientist – Women's Health Cardiovascular***

Perform in vivo studies for the treatment for urologic diseases. Responsibilities include establishing new efficacy models, handling all aspects of in vivo pharmacology including survival surgery, cannulation animal dosing (ip, iv, po, id) and conducting experiments. Proficiency with data acquisition computers and software is required. Ph.D. + 2 is preferred along with relevant experience.

##### ***Scientist – Bone Biology***

Demonstrate expertise in cell and molecular biology to study genes involved in bone cell function. M.S. + 2 or B.S. + 4 preferred along with related experience.

For the above positions, please forward your resume with salary requirement to: Wyeth-Ayerst, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. E-mail: [jobs@RAMAIL1.wyeth.com](mailto:jobs@RAMAIL1.wyeth.com) (ASCII format, no attachments, subject: resume).

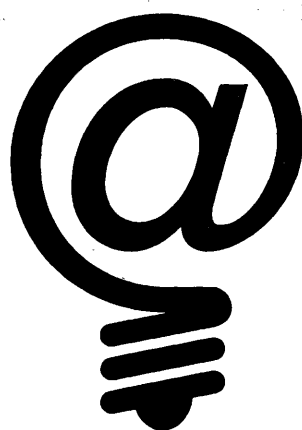
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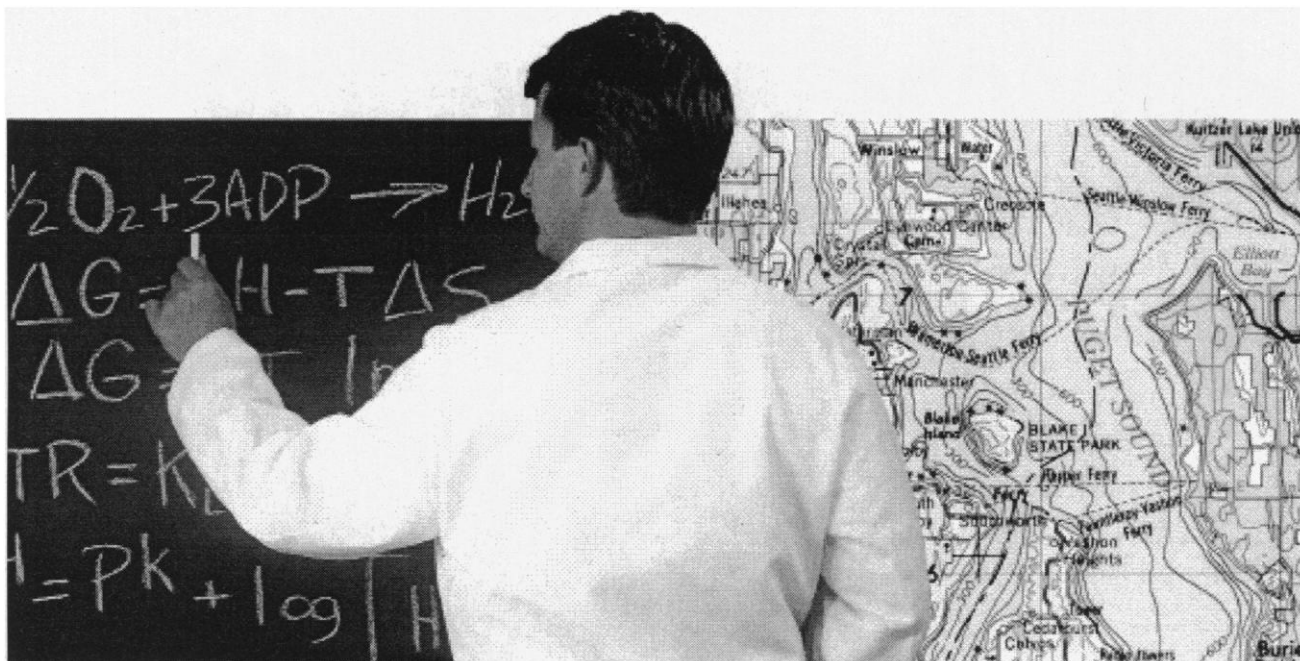
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The Biological Sciences group at Immunex is expanding current research programs and is initiating a new program in vascular biology. The following Staff Scientist opportunities are available:

### **Vascular Biologists**

The new vascular biology program will encompass both basic and applied research ranging from discovery of molecules that regulate the vasculature to preclinical testing of proprietary molecules in models of vascular growth, injury and repair. Candidates should possess a Ph.D. or M.D. and expertise in one or more of the following areas: basic endothelial cell biology, in vitro and in vivo models of angiogenesis, ischemia/reperfusion injury or atherogenesis. Knowledge of cytokine biology would be helpful but not essential. **Job Code 99-0239**

### **Dendritic Cell Biologist**

The qualified candidate will have at least 3 years of postdoctoral-level experience in the characterization and manipulation of mouse and/or human DCs, and familiarity with current concepts in this rapidly developing area of research. Additional technical proficiency in molecular biology and the study of gene regulation would be highly advantageous. **Job Code 99-0240**

### **Preclinical Immunologist**

We are seeking an established Immunologist with expertise in one or more of the following fields: Autoimmunity, Inflammation, Mucosal Immunology, Dendritic Cell Biology, Cytokine Biology, Tumor Immunology. The successful candidate will have working experience with both in vitro and in vivo experimental systems. **Job Code 99-0241**

### **Scientific Liaison**

The Extramural Research group is seeking a scientific liaison/extramural research professional to

participate in establishing and maintaining extramural collaborations. The primary focus of the position is to review and summarize scientific data generated by internal or extramural scientists. In particular, this position entails communicating day-to-day with collaborating scientists, reviewing manuscripts and research proposals, writing summary documents, and providing assistance in writing regulatory documents. Minimum 3 years experience with a background in Immunology, Hematology or similar field. Ph.D. strongly preferred. **Job Code 99-0160**

### **Human Immunology Scientists**

The Biological Sciences group is seeking two scientists with experience in studying human immune responses and expertise in human T cells or granulocytes.

The human T cell scientist should have a minimum of 2 to 4 years of relevant postdoctoral experience in the general area of T cell biology. Expertise in studying the role of cytokines in specific cell-cell interactions (e.g., T-T, T-B or T-DC interactions) would be beneficial. **Job Code 99-0242**

The human granulocyte scientist should have a minimum of 2 to 4 years of relevant postdoctoral experience in the general area of granulocyte biology. Specific expertise in the role of PMNs in either innate immunity or inflammation would be beneficial. **Job Code 99-0243**

For both human immunology positions, experience in the following areas is preferred: Ability to design and implement in vitro assays to identify novel genes with biological relevance, a demonstrated ability to work with normal cells and cells obtained from clinical disease settings, some background knowledge in molecular biology techniques (e.g., gene expression) would be helpful.

### **Experimental Pathologist**

We are seeking an Experimental Pathologist to join our multidisciplinary research team in designing, analyzing and interpreting in vivo efficacy. The successful applicant will be knowledgeable in the application of molecular and cellular pathology techniques. The position requires a recognized Veterinary degree, advanced degree, and board certification (ACVP). ABT certification is desirable. Specialized research training and diagnostic skills in necropsy, histopathology, clinical pathology, cytology, and electron microscopy will be required to conduct examinations and report investigative and anatomic pathology results. **Job Code 99-0161**

For all of these positions, excellent communication skills as well as the ability to work in a team setting and a fast paced environment are vital.

At Immunex, we're creating innovative biopharmaceuticals that are giving new hope to people suffering from cancer, inflammatory and infectious diseases. In addition to a rewarding work environment, you'll enjoy Seattle, located on beautiful Puget Sound and surrounded by the Olympic and Cascade Mountains. We offer an exceptional compensation program and an award winning benefits package.

Please submit a resume (Immunex utilizes scanning technology) specifying the **Job Code number to: Immunex Corporation, 51 University Street, Seattle, WA 98101. Fax: (206) 621-1399, Email: [job-info@immunex.com](mailto:job-info@immunex.com)**. For more information about Immunex, visit our web site at **[www.immunex.com](http://www.immunex.com)**

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Each awardee will work in one of the above project areas as a guest investigator at the Federal Energy Technology Center. United States citizens are preferred but foreign nationals with permanent resident status will be considered. The annual stipend for recent Ph.D. recipients is \$40,000 and is appropriately higher for more experienced researchers. Each award is for one year, renewable for a total tenure of three years. Support is provided for relocation and professional travel, and a health insurance program is offered.

For more information on the above opportunities, access the FETC web site [www.fetc.doe.gov](http://www.fetc.doe.gov). Click on the "Products" button and click on "National Research Council Opportunities for Research." Contact the appropriate research advisor for more information.

\*\*\*\*\*

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year.

Those postmarked by January 15 will be reviewed in the February competition, by April 15 in the June competition, and by August 15 in the October competition. Application materials can be obtained from the National Research Council's web site at [national-academies.org/rap](http://national-academies.org/rap) or by contacting:

#### NATIONAL RESEARCH COUNCIL Associateship Programs (TJ-2114/FE2)

2101 Constitution Avenue, NW  
Washington, DC 20418  
FAX: (202) 334-2759  
EMAIL: [rap@nas.edu](mailto:rap@nas.edu)

## RENSSELAER POLYTECHNIC INSTITUTE

### BIOLOGY DEPARTMENT

#### FOUR FACULTY POSITIONS OPEN

The Biology Department is seeking four full-time faculty. Three positions are at the senior (Associate or Full Professor) and one at the junior (Assistant to Associate) level. All are tenure track and available January 2000. All candidates must have a Ph.D. degree. Candidates for senior positions should have established, funded research programs; candidates for junior positions should have good potential for sponsored research. Successful candidates will have research programs that complement current research interests in the department (<http://www.rpi.edu/dept/bio/info/bio.html>), participate in undergraduate and graduate teaching, and assist in expansion of existing graduate (MS and Ph.D.) programs.

Research interests of the department are Bioinformatics and Molecular Biology, Biochemistry and Biophysics, and Environmental Molecular Biology and Ecology. A new degree program in Bioinformatics and Molecular Biology has recently been established using support from the Howard Hughes Medical Institute. Several faculty have research interests in this area and strong collaboration has been established with the Wadsworth Center of the New York State Health Laboratories in forming a joint Center for Bioinformatics Research. Several faculty in the Biology Department participate in a successful interdisciplinary program in Biochemistry and Biophysics. Current research interests in this group are related to cell signaling, protein structure, and molecular chaperones. Strong ties exist between the Darrin Fresh Water Institute at Lake George and the Biology Department. Research interests include fresh water ecology and molecular techniques for studying ecological relationships in groundwater systems. The positions open are:

- Two senior level positions in Bioinformatics/Computational Biology (potential for joint appointment)
- One senior level position in Environmental Molecular Microbiology or Molecular Microbial Ecology
- One junior level position in Biochemistry/Molecular Biology

Review of applications begins 9/15/99. Later applications will be considered. Send CV, statement of research and teaching interests, publication list, and names of three references to Ms. Jan MacDonald, Assistant to the Chair, Biology Department, MRC 307, 110 Eighth Street, Troy, NY 12180-3590. For additional information about the campus and local area visit the Rensselaer Home Page at [www.rpi.edu](http://www.rpi.edu). Rensselaer Polytechnic Institute is an Equal Opportunity, Affirmative Action Employer. Members of underrepresented groups (including people of color, persons with disabilities, and women) are strongly encouraged to apply.

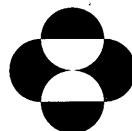
**Merck Research Laboratories, a world leader in Biological and Pharmaceutical Research, has excellent openings in its Biology Department.**

## BIOLOGY POSITIONS

### Biologist • Staff Biologist • Research Biologist

The selected individuals will be involved in studying leukocyte adhesion and trafficking. Candidates should possess a BS/MS or equivalent in molecular biology, biochemistry or cell biology, or a related discipline, and 2-5 years relevant laboratory experience. A broad range of expertise in molecular biological techniques, biochemical techniques and mammalian cell culture is necessary. An understanding of immunology, eucaryotic signal transduction and receptor biology would be an asset; proficiency in developing in vitro receptor binding assays is highly desired. The ability to work independently and as an integral member of a talented, interdisciplinary research team is essential. Excellent communication, organization, problem-solving and computer skills are required.

Merck Research Laboratories are located approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Applicants should send their CV (including names and addresses of three potential references) to Merck & Co., Inc., P.O. Box 2000, AD #100, RY80-A3, Rahway, New Jersey 07065. Merck Research Laboratories is an equal opportunity employer.



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## POSITIONS OPEN

### FACULTY POSITION CELLULAR NEUROBIOLOGY

Department of Anatomy and Neurobiology  
University of Vermont College of Medicine

The Department of Anatomy and Neurobiology at The University of Vermont College of Medicine invites applications for a tenure-track or tenured faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. The department has a strong commitment to excellence in research, scholarship, and teaching of medical, graduate, undergraduate, and professional students. While all areas of research will be considered, preference will be accorded to applicants with research programs that are complementary to our current and emerging strengths in cellular and molecular neuroscience of the vertebrate nervous system, particularly development, signal transduction, and autonomic neurotransmission. Applicants for the Assistant Professor position are expected to have a Ph.D. in neuroscience or other basic life sciences, at least three years of postdoctoral experience, and the ability to develop a strong, competitive, and independent state-of-the-art research program to sustain extramural funding. Appointment for Associate or Full Professors will be considered for applicants of high professional distinction for excellence in scientific research, publications in leading peer-reviewed journals, and current and consistent record of extramural funding. Additional information about the Department may be obtained at the following website: <http://salus.med.uvm.edu/~neuro/annbpg.html>. Applicants should indicate the rank for which they are applying and submit a copy of their curriculum vitae, reprints of representative publications, a statement of research goals and plans, and three letters of reference to: **Dr. Victor May, Chair, Faculty Search Committee, Department of Anatomy and Neurobiology, The University of Vermont College of Medicine, Burlington, VT 05405**. Applications will be accepted until the position is filled; however, we strongly encourage submission of materials by October 1, 1999.

*The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.*

### TERRESTRIAL WILDLIFE/ VERTEBRATE ECOLOGIST

We seek a tenure-track **ASSISTANT PROFESSOR** with research expertise in population/community ecology of terrestrial vertebrates. Candidate must establish an independently funded graduate research program, teach an undergraduate course in terrestrial habitat management, develop a graduate course in his/her area of expertise, and work with students in the service arena. Submit curriculum vitae, transcripts, three reprints, and three letters of reference by October 1, 1999, to: **Dr. Thomas E. Lacher, Jr., Search Committee Chair, Department of Wildlife and Fisheries Sciences, 210 Nagle Hall, Texas A&M University, College Station, TX 77843-2258. Telephone: 409-847-9334.**

*The Texas A&M University System is an Equal Opportunity Employer and encourages applications from women and minorities.*

### PHYSIOLOGICAL PLANT ECOLOGIST

The Section of Integrative Biology of the School of Biological Sciences, University of Texas at Austin, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level, to begin fall 2000. We are particularly interested in applicants whose research is in the area of physiological plant ecology. The successful applicant will be expected to develop a vigorous research program, obtain external funding, and teach graduate and undergraduate students. Send curriculum vitae, statement of research and teaching interests, no more than three reprints, and have three letters of reference sent to: **Dr. Beryl Simpson, Section of Integrative Biology, Patterson Laboratories, The University of Texas, Austin, TX 78712** by October 1, 1999. *UT-Austin is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT DEAN MEDICAL SCHOOL UNIVERSITY OF WISCONSIN-MADISON

The Medical School and the Office of University-Industry Relations are seeking nominations and applications for a full-time Assistant Dean position. The incumbent will serve as Assistant Dean working with the Medical School faculty and staff on technology transfer efforts at UW-Madison.

Degree and specialization: Ph.D. in a science-related field is required with demonstrated research ability, so as to ensure an understanding of the research process and technologies originating from faculty, and to establish credibility with faculty and outside contacts.

Experience: At least ten years of experience is required to include a combination of management, marketing, technology transfer, and research activities. Experience in patenting and/or copyrights is desirable. Both business and academic experience is necessary, as well as an appreciation of the research activities in areas covered by the Medical School. Appreciation for the mission and priorities of universities as institutions of higher learning as distinct from industrial research laboratories is essential.

Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality.

Deadline date for receipt of application: October 15, 1999.

For full consideration, send a cover letter, complete résumé, and the names and addresses of at least three references to:

**Dr. Steven C. Price, Director  
University-Industry Relations (UIR)  
University of Wisconsin-Madison  
Room 1215, WARF Building  
610 Walnut Street  
Madison, WI 53705  
Telephone: 608-263-2840  
Website: <http://www.wisc.edu/ui>**

*The University of Wisconsin is an Equal Opportunity and Affirmative Action Employer.*

### UNIVERSITY OF SAN DIEGO ASSISTANT PROFESSOR

The University of San Diego (USD), Department of Biology, invites applications for a new faculty position beginning in September 2000. The department seeks applicants with expertise in behavioral ecology to offer an upper-division course with laboratory, and to participate in other upper-division and lower-division courses for biology majors. Preference will be given to candidates working with terrestrial invertebrates. USD is an independent Catholic university whose primary aim is teaching excellence. Active scholarship is integral to this aim, and the candidate is expected to have an ongoing research program that has the potential for undergraduate involvement. Applicants should submit a curriculum vitae, a brief statement of teaching philosophy and research interests, and the names, addresses, and telephone numbers of three referees by October 1, 1999, to: **Chair, Department of Biology, University of San Diego, 5998 Alcalá Park, San Diego, CA 92110-2492**. Additional information about the University can be found at our website: [www.acusd.edu](http://www.acusd.edu). *Women and minority candidates are encouraged to apply. USD is an Affirmative Action/Equal Opportunity Employer.*

Division of Cardiology seeks **ASSISTANT or ASSOCIATE PROFESSOR**. The successful candidate will have demonstrated expertise in molecular biology, and will join **Dr. Bolli** and other Investigators to do research focusing on changes in gene expression, gene therapy, and/or transgenesis/gene targeting, as they pertain to myocardial ischemia. Applicants must hold M.D. or Ph.D., have three years of postdoctoral training, and be capable of establishing a strong independent research program. Send curriculum vitae, statement of interests, and three references to: **R. Bolli, M.D., Chief, Division of Cardiology, University of Louisville, Louisville, KY 40292**. *Equal Employment Opportunity/Affirmative Action. PCN 09275.*

## POSITIONS OPEN

### FACULTY POSITIONS IN THE DEPARTMENT OF BIOLOGY UNIVERSITY OF MICHIGAN

The Department of Biology at the University of Michigan solicits applications for two **TENURE-TRACK** faculty positions in (i) biochemistry and (ii) evolutionary genetics.

**Biochemistry.** We seek an individual who uses a wide range of fundamental problems in the biochemistry of proteins. Although applications from all interested parties are invited, we are particularly interested in individuals working on problems related to protein folding and/or protein-protein interactions. The successful candidate will join an active and expanding group of Cellular and Molecular Biologists interested in a variety of fundamental biological questions.

**Evolutionary genetics.** We seek an individual who uses molecular tools and model organisms to study fundamental evolutionary processes in laboratory and/or wild populations. Research areas of interest include, but are not limited to, evolutionary and quantitative genetic aspects of life history traits such as development, reproduction, aging, and evolution of genome organization. Persons who combine laboratory and field studies are encouraged to apply. The successful candidate will join an active group interested in a variety of fundamental and interrelated questions in evolution and genetics.

For both positions, a Ph.D. in biology or a related field, as well as postdoctoral experience is required. In addition to establishing a successful research program, the successful candidates will be expected to participate in undergraduate and graduate teaching programs of the department. To apply, send a curriculum vitae, copies of reprints, brief summaries of present research and future research plans, and arrange to have three letters of reference sent to:

**Chair, Department of Biology  
University of Michigan  
Natural Sciences Building  
Ann Arbor, MI 48109-1048**

Please indicate clearly in the cover letter for which position you wish to apply. Review of applications will commence October 1, 1999.

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

### REPRODUCTIVE NEUROENDOCRINOLOGIST

The Section of Integrative Biology of the School of Biological Sciences, University of Texas at Austin, has an opening for fall 2000 at the **ASSISTANT PROFESSOR** level for someone who integrates neuroendocrine mechanisms with functional reproductive outcomes. Reproductive outcomes are defined broadly to include either changes across the life cycle or the regulation of specific processes or events, including behavior and endocrine disruption. The applicant should have expertise in molecular, biochemical, and physiological techniques. There is a strong preference for someone who works with vertebrates. The successful applicant will be expected to teach endocrinology at the undergraduate level. Send curriculum vitae, statement of research and teaching interests, no more than three reprints, and three letters of reference to: **Dr. Frank Bronson, Section of Integrative Biology, Patterson Laboratories, The University of Texas, Austin, TX 78712** by October 1, 1999. *UT-Austin is an Affirmative Action/Equal Opportunity Employer.*

The Rush Epilepsy Center, Department of Neurological Sciences, Rush-Presbyterian-St. Luke's Medical Center, has a **FACULTY POSITION** for a scientist (Ph.D. or M.D.-Ph.D.) interested in investigating the basic mechanisms of epilepsy. Candidates with an established research program and expertise in molecular biology preferred. Send curriculum vitae, three letters of reference, reprints, and a one-page statement of research interests to: **Dr. Leyla de Toledo-Morrell or Dr. Michael Smith, Department of Neurological Sciences, Rush-Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612**. *Rush is an Equal Opportunity/Affirmative Action Employer.*



# Science

Associate Editor, Science's STKE

Exciting opportunity available immediately with our new electronic resource, *Science's* Signal Transduction Knowledge Environment (<http://www.stke.org>), for a Ph.D. biologist with broad interests and research experience in signal transduction. Responsibilities will combine editorial duties (solicitation and selection of manuscripts for the Knowledge Environment) with opportunities to conceive and guide the development of novel electronic tools and features. Requirements include postdoctoral experience, peer-reviewed publications, enthusiasm for electronic publishing, and experience with HTML, databases, and database-driven Web sites. Some familiarity with a Web-related programming language a plus. Previous editorial experience is not required. This is a full-time position in our Washington, DC, office.

*Please send your curriculum vitae, a cover letter describing your qualifications and salary requirements, and contact information for three references to:*

Mr. Gregory Stokes  
American Association for the Advancement of Science  
Human Resources Department, Suite #100  
1200 New York Avenue, NW  
Washington, DC 20005  
EOE/Non-smoking work environment

## NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

### POSTDOCTORAL RESEARCH POSITION

Starting Salary Range: \$27,500 to \$30,000  
Commensurate with experience/present salary

Position will be available in the Respiratory Viruses Section of the Laboratory of Infectious Diseases. The research activity involves (1) the development of live attenuated parainfluenza virus vaccine candidates and their characterization in rodents, in non-human primates, and in humans; (2) the use of new "rescue" systems for these viruses to examine basic questions of viral genetics, molecular virology, viral pathogenesis, and the molecular basis of attenuation; (3) production of new candidate vaccines using site-directed mutagenesis to introduce desired attenuating mutations into viral genomes; and (4) the evaluation of the immunologic determinants of resistance to infection and illness caused by these parainfluenza viruses. This full-time research position offers a unique opportunity to work on investigations that range from basic molecular biology to applied vaccinology, and the project provides excellent training for postdoctoral scientists within five to seven years of receiving their Ph.D. and for M.D.'s at all levels of training who plan a career in research in infectious diseases. The position involves a collaborative research project between Dr. Brian Murphy and Dr. Peter Collins. Salary will be commensurate with experience. Please send curriculum vitae and three references to:

Dr. Brian R. Murphy  
Laboratory of Infectious Diseases, NIAID  
Bldg. 7, Room 106  
7 Center Drive, MSC 0720  
Bethesda, MD 20892  
FAX: (301) 496-8312  
E-mail: [bmurphy@niaid.nih.gov](mailto:bmurphy@niaid.nih.gov)

NIH is an Equal Opportunity Employer



Headquartered in Cambridge, Massachusetts, EPIX Medical, Inc. is a leader in the development of targeted injectable imaging agents, which facilitate the detection of disease by Magnetic Resonance Imaging. We are expanding our patents department and currently have opportunities for motivated individuals.

### STAFF SCIENTIST/ PATENT LIAISON, PH.D.

Interact with EPIX scientists and outside patent counsel to identify, write, and prosecute inventions and patent applications. Ph.D. in scientific field required. Expertise in biophysics, chemistry or biochemistry preferred. Excellent writing and oral communications skills, and excellent scientific word processing and literature search skills. Interested candidates must submit a sample of their scientific writing.

We offer a competitive salary, a comprehensive benefits package including stock options, and career advancement opportunities within a growing company. Please mail or fax your resume with cover letter to: EPIX Medical, Inc., JOB CODE: PL, 71 Rogers Street, Cambridge, MA 02142-1118, Attn.: Human Resources; Fax (617) 250-6031. Visit our web site at [www.epixmed.com](http://www.epixmed.com). Equal Opportunity Employer.

## Postdoctoral Positions

Postdoctoral positions are available to study the translational control of early vertebrate development (Xenopus and mouse) and neuronal synaptic plasticity. One focus will be the molecular mechanisms by which sequence-specific RNA binding proteins regulate translation. In addition, the consequences of translational control on development and synaptic function will be assessed. Recent salient references are EMBO J. 18, 2294 (1999) and Neuron 21, 1129 (1998).

Further information can be found at [www.ummed.edu/dept/mgm/richter.html](http://www.ummed.edu/dept/mgm/richter.html)

Please send complete CV and the names and addresses of three persons who may act as references to:  
Dr. Joel D. Richter,  
University of Massachusetts  
Medical School, Biotech 4,  
Room 330, 377 Plantation St.,  
Worcester, MA 01605.



Equal Opportunity/  
Affirmative Action Employer.

## FACULTY POSITIONS BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology at the University of Texas-Houston Medical School invites applications for two tenure-track positions at the rank of ASSISTANT PROFESSOR. However, we will consider exceptionally qualified candidates at any rank. We are seeking outstanding scientists working in biochemistry and molecular biology who are addressing basic mechanisms relating to important biological questions. Selected candidates will be expected to develop independent research programs and to teach in the curricula for graduate and medical students. Additional information about the department can be found at <http://www.bmb.med.uth.tmc.edu>.

The University of Texas-Houston Medical School is located within the Texas Medical Center and provides an exceptional research environment with a variety of core facilities, research centers and graduate training programs.

Submit a curriculum vitae, a summary of future research plans, and names and addresses of three references to: Barbara M. Sanborn, Ph.D., Chair, Search Committee, Department of Biochemistry and Molecular Biology, University of Texas-Houston Medical School, P.O. Box 20708, Houston, TX 77225-0708. Application review will begin October 1.

Equal Opportunity Employer. Women and minorities encouraged to apply.

## POSITIONS OPEN

**FACULTY POSITIONS** in chemistry. The Department of Chemistry at Washington University in St. Louis invites applications for faculty positions with an anticipated beginning date in August 2000. Research in the Department spans a broad range of interests, including considerable interdisciplinary activity, and therefore applications are encouraged from all excellent candidates. Duties will include the launching or propagation of an outstanding research program and participation in the teaching of core chemistry courses at both the undergraduate and graduate levels.

Applications for positions at the Assistant Professor level should be sent as soon as possible and must be received by October 15, 1999, to ensure review by the Search Committee. Late applications will, however, be considered until the end of the search. Applications from candidates for Assistant Professorships are expected to consist of curriculum vitae and one or more concise research proposals. Candidates should arrange for three letters of reference to be received by October 15, 1999.

Applications for senior-level positions will be considered at any time, and no format is specified.

Address all materials to: **Faculty Search Committee, Department of Chemistry, Campus Box 1134, Washington University, One Brookings Drive, St. Louis, MO 63130-4899.** *Washington University is an Equal Opportunity/Affirmative Action Employer. Individuals from underrepresented groups are especially encouraged to apply.*

**ASSISTANT PROFESSOR.** The Department of Wildlife Ecology, University of Wisconsin-Madison, seeks an individual with broad expertise in mammalian ecology/animal behavior. This 12-month, tenure-track position consists of 50 percent research and 50 percent instructional responsibilities. The successful applicant must be able to secure extramural funding for a strong research program and will also teach at least two graduate or undergraduate courses each year and participate in individualized instruction and undergraduate advising. Teaching responsibilities require strong quantitative skills and demonstrated expertise in mammalian ecology/animal behavior. An earned Ph.D. in wildlife ecology/management/biology is required and postdoctoral research and teaching experience is desirable. Send letter of application stating research and teaching interests with a current curriculum vitae, college/graduate transcripts, and three letters of recommendation plus the names of three to four additional references to: **Dr. Scott R. Craven, Chair, Search Committee, Department of Wildlife Ecology, 226 Russell Laboratories, University of Wisconsin-Madison, WI 53706.** E-mail: [srcraven@facstaff.wisc.edu](mailto:srcraven@facstaff.wisc.edu); Telephone: 608-263-6325. Closing date for applications: 15 November 1999. *The University of Wisconsin-Madison is an Equal Opportunity and Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request.*

## FACULTY POSITION OPENING

The University of Kansas Department of Chemistry invites applications for a tenure-track faculty position in experimental physical chemistry at the **ASSISTANT PROFESSOR** level to begin fall semester 2000. Applicants with research areas in biophysical chemistry, environmental chemistry, or materials science are especially encouraged to apply. Applicants must have a Ph.D. in chemistry or related field (or Doctoral dissertation accepted with only formalities to be completed by August 15, 2000), as well as demonstrable commitment to excellence in teaching and research. Postdoctoral experience is preferred.

Applicants should send a curriculum vitae, teaching and research statements, and arrange for the submission of three letters of recommendation. All materials should be sent to: **Professor Brian B. Laird, Chair, Physical Chemistry Search Committee, Department of Chemistry, University of Kansas, Lawrence, KS 66045.** Review of applications will begin on October 1, 1999, and will continue until the position is filled, with final approval contingent upon budgetary considerations. *Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### FACULTY POSITIONS

The University of Alabama in Huntsville (UAH) Chemistry Department and Materials Science Graduate Program invite applications for two tenure-track positions, one in inorganic chemistry and one in biochemistry/bioorganic chemistry. The level of appointments is at the rank of **ASSISTANT PROFESSOR.** Teaching duties include undergraduate classes and graduate classes in their area of specialty. We are particularly interested in applicants whose research plans are in the areas of biotechnology, biomineralization, or biomaterials. Candidates must hold a Ph.D. in chemistry or a chemistry-related field, with postdoctoral experience desirable; be motivated to maintain a vigorous externally funded research program that supports M.S. and Ph.D. students; and be committed to quality undergraduate and graduate teaching. The Department offers B.S. and M.S. degrees in chemistry, as well as M.S. and Ph.D. degrees in materials science. A Doctoral program in biotechnology is anticipated. The department shares facilities and personnel with the Laboratory for Structural Biology, Laboratory for Materials and Surface Science, and the Center for Microgravity and Materials Research. We collaborate with NASA's Marshall Space Flight Center, Biomedical Engineering at the University of Alabama at Birmingham (UAB), and many Huntsville space and biotechnology companies. Applicants should submit a curriculum vitae, statements of their research interests, teaching philosophy, and the names of three references to: **Professor Clyde Riley, Chair, Department of Chemistry, The University of Alabama in Huntsville, MSB 203, Huntsville, AL 35899 USA.** Review of applications will begin October 1, 1999. Starting date August 15, 2000. Further information about the Chemistry Department and Materials Science Program can be found at **website: <http://chemistry.uah.edu/> or website: <http://matsci.uah.edu/>.** *Applications from women and minority candidates are encouraged. The University of Alabama in Huntsville is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR IN THE HEALTH SCIENCES

Hampshire College, an independent, innovating liberal arts institution and member of the Five College consortium, is accepting applications for a Health Scientist (Assistant Professor), focusing in such areas as epidemiology, public health, or nutrition; the ability to teach and advise students in statistics and computer skills is also highly desirable.

Hampshire College offers a stimulating and supportive environment for interdisciplinary teaching and collaborative research in a wide variety of fields. We seek scientists whose innovative teaching engages students in genuine research at the introductory and advanced levels. We emphasize discussion, projects, and written evaluations rather than lectures, exams, demonstrations, or grades. All Hampshire students are expected to engage in intellectual issues pertinent to the Third World or United States minorities at some point in their college studies. Improving science teaching and K-12 collaboration are other active areas of interest.

A Ph.D. or the equivalent is required. The candidate's ability to combine undergraduate teaching and research in exciting ways will be weighed more heavily than their specific disciplines. Candidates should briefly discuss their ideas for teaching in their letters of application. We offer a comprehensive benefit program. Application review begins on October 1, 1999, pending funding. Send letter of application, curriculum vitae, and three letters of reference to:

**Ms. Laurie Smith  
Health Science Search Secretary  
Hampshire College  
School of Natural Science  
Amherst, MA 01002-5002**

Or e-mail questions to e-mail: [ljns@hampshire.edu](mailto:ljns@hampshire.edu).

Visit our **website: <http://www.hampshire.edu>.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### NEUROLOGY CHAIR THE CHICAGO MEDICAL SCHOOL

We seek applicants for the Chair of Neurology and are interested in an academic Neurologist with a track record in sponsored research, patient care, and education. She/He will be responsible for developing educational and research programs and will have a unique opportunity to strengthen clinical affiliations with our affiliated teaching hospitals. Neuroscience is an area of strength at Chicago Medical School, with a dedicated department, Doctoral program, and several NIH-funded faculty in other departments. It is expected that the new Chair will form collaborative bridges to existing programs while promoting new initiatives within neurology. The Chicago Medical School is located in the northern suburbs, amidst communities that value education, the arts, and recreation. Our 100-acre campus includes the School of Medicine, an outpatient clinic, and a women's health center. Recent appointments of a University President and Medical School Dean provide an exceptional opportunity to build a clinical department in concert with a new administration at an important time in the school's history. Nominations and applications should be sent directly to: **John Sladek, Ph.D., Chair, Neurology Search Committee, Department of Neuroscience, The Chicago Medical School, 3333 Green Bay Road North, Chicago, IL 60664.**

*The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.*

### THE DEPARTMENT OF CHEMISTRY OF THE UNIVERSITY OF WISCONSIN-MADISON

Anticipates openings for one or more faculty positions to begin in August 2000. We seek outstanding candidates at the **ASSISTANT PROFESSOR** level (tenure track) in all areas of chemistry, especially organic chemistry. Candidates must have a Ph.D. in chemistry or a related field; postdoctoral experience is desirable. The position requires development of an internationally recognized program of scholarly research as well as excellent teaching at both the undergraduate and graduate level. Please send a curriculum vitae and a concise description of research plans and arrange for three letters of recommendation to be sent to: **Prof. James C. Weisshaar, Chair of Faculty Search Committee, Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706-1396.** To guarantee full consideration, all materials must arrive before October 15, 1999.

*The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer; applications from qualified women and minority candidates are encouraged. Unless confidentiality is requested in writing, information regarding the identity of the applicant must be released on request. Finalists cannot be guaranteed confidentiality.*

### CONSERVATION BIOLOGIST/ ENVIRONMENTAL SCIENTIST

The Trinity College Department of Biology invites applications for a tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR** beginning in the fall term 2000. Applicants must have a Ph.D. in the area of conservation biology (postdoctoral experience is preferred, but not required) and a record of teaching and scholarship. Annual teaching duties include an introductory environmental science course, conservation biology for both majors and non-majors, and alternate year courses at the advanced level. The candidate should pursue a program of research in which upper-level undergraduate students may participate. Excellent facilities and start-up funds are available. Send a curriculum vitae, statements of teaching philosophy and of current research interests, and undergraduate as well as graduate transcripts, and have three letters of recommendation forwarded to: **Craig W. Schneider, Chair, Department of Biology, Trinity College, Hartford, CT 06106.** Evaluation of applications will begin 15 October 1999 and continue until the position is filled. *Trinity College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from minorities and women.*



**Targeted Genetics Corporation**, a Seattle-based leader in the field of gene therapy, currently has the following opportunities to join our team:

**Staff Scientist - Cell Culture Development and Vector Production**

We seek a scientist to develop cell lines for the production of gene therapy vectors. Work with and supervise technical staff in the production and testing of viral vectors for R&D studies. Requires a background in mammalian cell culture, with an emphasis on molecular biology. Biochemistry, virology, or gene therapy experience a plus. Requires a Ph.D. in Biological Sciences.

**Project Manager**

Work with project teams to develop project plans for projects in, and approaching clinical trials. Provide project oversight, track critical activities, facilitate information flow and influence decisions affecting the company's programs. Interact extensively with staff at all levels, including management. Candidates must possess an understanding of pharma/biotechnology product development, prior project management experience, a positive team-oriented attitude, and demonstrate excellent organizational, verbal and written communication skills. Requires a minimum of 3 years relevant experience. Life science degree required.

We seek postdoctoral researchers to work on the Company's exciting synthetic gene delivery systems technology. These positions are expected to last up to three years and may provide an opportunity to join our team thereafter.

**Postdoctoral Opportunities**

**Biochemist/Chemist.** Incorporate, couple, and characterize synthetic ligands in our gene delivery systems. Experience in peptide and coupling chemistry, analysis of ligand receptor interactions and the intracellular trafficking gene delivery vehicles in cells is preferred.

**Biochemist/Biophysical Chemist.** Develop and optimize methodology and analytical tools to generate, characterize and integrate Nucleic Acid-Polycation complexes into our gene delivery systems. Experience in DNA chemistry and characterization of DNA complexes by various physical and chemical means is required. Familiarity with and ability to interpret the results obtained from the techniques of Photon Correlation Spectroscopy, HPLC, Electron Microscopy, Chromatographic Separation, Circular Dichroism, Atomic Force Microscopy and Electrophoresis is preferred.

**Formulations Scientist (2).** Develop lipid and polymer based nanoparticle formulations for use in in vivo gene therapy modalities. Experience in pharmaceutical formulation development and characterization using either lipid or polymer based systems is required. Familiarity with, and ability to apply various chemical and biochemical techniques to characterize such systems with regards to encapsulation efficiency, size, charge and physical configuration, in vivo stability, as well as transfection efficiency in vitro and in vivo.

For consideration, please forward C.V./resume to:

**Targeted Genetics Corporation**  
Human Resources  
1100 Olive Way, Suite 100  
Seattle, WA 98101  
Fax: (206) 521-7872  
email: careers@targen.com  
website: www.targen.com

*TGC is an equal opportunity employer*

## Cellular Biologists, Molecular Geneticists, Biochemists—BS/MS Level

The DuPont Pharmaceuticals Company has several openings for exceptional cellular biologists, molecular geneticists, and biochemists at the BS and MS level. DuPont Pharmaceuticals is a world leader in Antimicrobial, HIV/AIDS, Cardiovascular, Cancer, CNS, and Inflammation research. Our laboratory studies span the range from basic investigations into the molecular mechanisms that underlie disease, to highly focused evaluations of experimental therapeutics. We are seeking dedicated, creative, and effective scientists to join our teams of world-class investigators. Successful applicants for these positions should have a BS or MS degree in one of the biological sciences and up to three years experience in modern laboratory methods, including expertise in one or more of the following areas: mammalian tissue culture studies, recombinant DNA techniques, protein production, purification and analyses, and enzyme assays.

DuPont Pharmaceuticals Company offers excellent compensation and benefits packages. To be considered, please forward your resume to: DuPont Pharmaceuticals Company, Human Resources-SD-AO, E400/2413, P.O. Box 80400, Wilmington, DE 19880-0400, or email your resume (indicate code SD-AO) to: SD-Resumes@dupontpharma.com. An equal opportunity employer, M/F/D/V.



*The miracles of science™*

DuPont Pharmaceuticals Company

### University of Minnesota Department of Pharmacology Predoctoral, Postdoctoral & Research Associate Positions

The Department of Pharmacology, University of Minnesota Medical School, has Predoctoral and Postdoctoral openings in several fields. Our faculty members are well-funded and direct strong interdisciplinary research programs.

Areas of emphasis include:

**Molecular biology**, biochemistry, immunology, and neurobiology-neurochemistry

**Molecular cloning** of receptors and signal transduction

**Regulation of Gene Expression** (also use of transgenic and gene targeting technology)

**Intracellular electrophysiology**, ion channels

**Biochemical/molecular pharmacology**  
**Cancer chemotherapy**, immunopharmacology, drug metabolism, enzymology, and anti-viral drugs

Interested applicants for predoctoral positions should write to the Director of Graduate Studies for more information. Postdoctoral applicants should send a curriculum vitae, statement of research interests, and names of three references to **Dr. Horace H. Loh, Professor and Head**. The address for predoctoral, postdoctoral and research associate applicants is: **Department of Pharmacology, University of Minnesota, 6-120 Jackson Hall, 321 Church Street SE., Minneapolis, MN 55455.**

*The University of Minnesota is an equal opportunity educator and employer.*

### NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

#### **POSTDOCTORAL RESEARCH POSITION**

**Starting Salary Range: \$30,000**  
**Commensurate with experience/  
present salary**

The Laboratory of Infectious Diseases, Epidemiology Section, seeks a Postdoctoral Fellow with three years or less of postdoctoral experience in virology, molecular biology, or protein chemistry to study the mechanism of rotavirus dsRNA replication. Potential areas of research include indentifying cis-acting signals in viral mRNA that promote dsRNA synthesis, locating RdRP- and protein-binding sites in the mRNA template, and characterizing the structure and role of accessory proteins in genome replication and packaging. Candidates must be U.S. citizens or permanent residents and have a Ph.D. or M.D. degree. Please send curriculum vitae and three references to:

**Dr. John T. Patton**  
**Laboratory of Infectious Diseases, NIAID**  
**Bldg. 7, Room 117**  
**7 Center Drive, MSC 0720**  
**Bethesda, MD 20892**  
**FAX: (301) 496-8312**  
**E-mail: jpatton@niaid.nih.gov**  
*NIH is an Equal Opportunity Employer*



## POSITIONS OPEN

### JOHN A. HANNAH PROFESSOR IN BACTERIAL EVOLUTION MICHIGAN STATE UNIVERSITY

The National Food Safety and Toxicology Center (NFSTC) at Michigan State University seeks applicants for a full-time faculty position as the John A. Hannah Professor in bacterial evolution. The primary responsibilities of the Hannah Professorship will be to conduct internationally recognized research on the evolution of bacteria relevant to food safety. The successful candidate will help lead a diverse group of faculty who have interest in food pathogens, bacterial genetics, medical microbiology, risk analysis, and related food safety fields. A stimulating environment emphasizing the application of basic and applied research methodologies to food safety research is provided by an internationally recognized group of faculty with expertise in cancer, bacterial, fungal, and parasitic diseases; genetics and immunogenetics; pathology; toxicology; and pharmacology. The successful candidate will occupy a generously equipped laboratory for their research studies in a newly constructed food safety and toxicology center. More information about the National Food Safety and Toxicology Center can be found at the NFSTC website: <http://foodsafe.msu.edu>. Review of applications will begin on November 1, 1999, or when a suitable candidate is identified. A letter of application, together with a curriculum vitae and the names of three referees, should be sent to: **Dr. Edward Mather, Chair, Hannah Search Committee, National Food Safety and Toxicology Center, Michigan State University, 165 Food Safety and Toxicology Building, East Lansing, MI 48824-1302. Telephone: 517-432-3100; FAX: 517-432-2310; e-mail: mather@cvm.msu.edu.** MSU is an Affirmative Action/Equal Opportunity Institution. Persons with disability have the right to request and receive reasonable accommodation.

**BIOPHYSICAL or BIOANALYTICAL CHEMIST.** Tenure-track. Fairfield University, Fairfield, Connecticut invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level in the area of biophysical or bioanalytical chemistry beginning September 2000. The successful candidate should have a Ph.D. in chemistry and be committed to excellence in teaching in a liberal arts setting and maintaining an ongoing undergraduate research program. Teaching responsibilities may include physical, analytical, biochemistry, and general chemistry. The chemistry program at Fairfield is ACS-certified and is research-active. Instrumentation and equipment include FT-NMR, FT-IR, GC/MS, HPLC, UV/VIS, spectrophotofluorimeter, laser, and flash photolysis. Send curriculum vitae, graduate and undergraduate transcripts, statement of teaching philosophy, research goals, and three letters of recommendation by November 15, 1999, to: **Professor Edmond J. O'Connell, Chair, Department of Chemistry, Fairfield University, Fairfield, CT 06430-5195.** Fairfield University is an Affirmative Action/Equal Employment Opportunity Employer.

Chemistry Department, Penn State, University Park, Pennsylvania. Several **TENURE-TRACK FACULTY POSITIONS** are available for fall 2000. Appointees are expected to establish an exceptionally strong and highly visible research program that incorporates excellence in undergraduate and graduate education. Rank is open; however, senior appointments should have a previous record of national and international distinction. We encourage applications from candidates in all areas of chemistry, including those that interface with other disciplines such as environmental sciences, materials sciences, biological sciences, and bioinformatics. Applicants should submit a curriculum vitae, a list of publications, research plans, and arrange to have three letters of recommendation sent to: **Chair of the Search Committee, Box S, Department of Chemistry, 152 Davey Laboratory, Penn State University, University Park, PA 16802.** Review of applications will begin on October 1, 1999, and continue until the positions are filled. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### MIT

#### ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGY

Massachusetts Institute of Technology is seeking an outstanding scientist for a tenure-track position as an Assistant Professor. We are interested in candidates with important research contributions, the ability to develop a significant and independent research program, and a commitment to excellence in undergraduate and graduate education.

The applicant's research program could involve any area of modern biology. The department's interests include molecular, genetic, genomic, and structural approaches to issues of microbiology, cell biology, development, neurobiology, immunology, and the molecular basis of disease.

Applicants should submit a curriculum vitae, a summary of current and proposed research programs, and should arrange for three letters of recommendation to be sent to:

**Biology Search Committee  
Room 68-132**

**Department of Biology  
Massachusetts Institute of Technology  
Cambridge, MA 02139**

Applications will only be considered when they are complete and letters of recommendation have been received. Consideration of applications will begin on October 1, 1999.

Visit our website: <http://web.mit.edu/biology/www>.

MIT is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority candidates are especially encouraged to apply.

#### ECOSYSTEMS ECOLOGIST LEHIGH UNIVERSITY

The Department of Earth and Environmental Sciences (EES) has an opening at the level of **ASSISTANT PROFESSOR** for an Ecologist interested in the role of plants in ecosystems. In particular, we seek applicants whose work bears on issues in both past and projected environmental change. We expect the successful candidate to develop a vigorous externally funded research program, teach an undergraduate course in plant ecology, and develop additional courses to complement diverse department curricula and research activities in earth and environmental sciences.

To receive full consideration, applicants should submit by September 20, 1999, a letter of application, curriculum vitae, statement of research and teaching interests, up to three reprints, and the names of three referees to: **Peter Zeitler, Chair, Department of Earth and Environmental Sciences, 31 Williams Drive, Lehigh University, Bethlehem, PA 18015.** For further information about the EES Department, see website: <http://www.ees.lehigh.edu/~incces>.

Lehigh University is committed to recruiting and retaining women and minorities.

#### EVOLUTIONARY BIOLOGIST PRINCETON UNIVERSITY ECOLOGY AND EVOLUTIONARY BIOLOGY

Princeton University's Department of Ecology and Evolutionary Biology invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in evolutionary biology. We are particularly interested in receiving applications from individuals focusing on the genetical control of developmental processes or problems associated with the evolution of organismal design and function. Applicants should have a well-developed conceptual basis to their research and a strong commitment to teaching. A curriculum vitae, a statement of research interests, three reprints, and three letters of recommendation should be sent to: **Dr. Peter R. Grant, Department of Ecology and Evolutionary Biology, Guyor Hall, Princeton University, Princeton, NJ 08544-1003.** Review of applications will begin on October 1, 1999. *Princeton University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR TERRESTRIAL ECOLOGIST KANSAS STATE UNIVERSITY

The Division of Biology at Kansas State University invites applications for a nine-month tenure-track position as Assistant Professor in the area of terrestrial ecology, beginning in the 2000/01 academic year. We seek a broadly trained Ecologist with research interests that complement our grassland ecology program. Potential areas of expertise include application of remote sensing to ecological studies, ecosystem modeling, landscape ecology, or community ecology. Interdisciplinary research is especially encouraged. The successful candidate is expected to establish an extramurally funded research program, take an active role in the Konza Prairie Long-Term Ecological Research program (website: [www.konza.ksu.edu](http://www.konza.ksu.edu)), and participate in graduate and undergraduate instruction (website: [www.ksu.edu/biology/](http://www.ksu.edu/biology/)). A Ph.D. or equivalent is required, and post-doctoral experience is preferred. Applicants must submit a curriculum vitae and brief description of research and teaching interests, and have three letters of reference sent to: **John M. Blair, Chair, Terrestrial Ecologist Search Committee, Division of Biology, 232 Ackert Hall, Kansas State University, Manhattan, KS 66506-4901.** Review of applications will begin October 4, 1999, and continue until the position is filled. *KSU is an Equal Opportunity/Affirmative Action Employer, and actively seeks diversity among its employees.*

The Department of Biomedical Engineering at the University of Michigan is soliciting applications from outstanding candidates for full-time **TENURE-TRACK POSITIONS** at all levels with research interests in fundamental aspects of biomaterials science and engineering. Research areas of interest include application of genetic methods in protein and polymer syntheses, protein-based biopolymers for applications in tissue engineering, drug delivery, genetic vectoring for gene therapy, targeted imaging, and advanced catalytic systems. Complex surface and three-dimensional patterning of bio-based materials for fabrication of electronic devices or other complex nanostructures is also of interest. Applicants with a background in synthetic biomembranes and other lipo-protein and liquid nanostructures with sensing, drug delivery, imaging, diagnostic, tissue engineering, and electronic devices applications will also be considered. Applicants should send a detailed curriculum vitae with the names of three references and a statement of research interests to: **Chair, Biomaterials/Biotechnology Search Committee, Department of Biomedical Engineering, the University of Michigan, 2350 Hayward, 3304 G. G. Brown, Ann Arbor, MI 48109-2125.** The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

#### FACULTY POSITION

The Pennington Biomedical Research Center at Louisiana State University invites applications for a faculty position at **ASSISTANT PROFESSOR, INSTRUCTOR, or RESEARCH ASSOCIATE** level. Applicants should have a Ph.D. or equivalent degree with a strong background and expertise in molecular and cell biology. The individual selected will participate in ongoing studies aiming to elucidate signaling pathways for cyclooxygenase gene expression. Rank and competitive salary will be commensurate with the applicant's qualifications. Applicants should submit a curriculum vitae and the names of three references to: **Ms. Evelyn Bennett, Pennington Biomedical Research Center, Louisiana State University, 6400 Perkins Road, Baton Rouge, LA 70808, Ref: Hwang—Faculty.** Further information may be obtained by **Telephone: 504-763-2518; e-mail: hwangdh@mhs.pbrc.edu.** *PBRC is an Affirmative Action/Equal Opportunity Employer.*



Paradigm Genetics Inc. is focused on discovering new products and processes for improving human health and welfare through agricultural biotechnology. The Microbial Research Group has developed a functional genomics platform to explore fungal genomes and uncover gene function across an array of economically important organisms. The group is undergoing expansion to meet its discovery timetable and seeks creative scientists interested in joining a young and aggressive biotechnology company located in Research Triangle Park in North Carolina.

### Scientist III-Yeast Geneticist-Physiologist

This senior position is responsible for implementing *S.cerevisiae* and other yeast systems as a model surrogates for functional analysis of microbial genomes. Complete familiarity with yeast genetics and rigorous phenotype analysis and large scale mutant searches is required along with a willingness to work with a range of fungal organisms across a diverse technology platform while maintaining ties to the yeast community. Competence in cytological analysis and immunofluorescent techniques is a plus. Ph.D. and relevant postdoctoral experience required. **Job #PGWPRG176P**

### Scientist III-Fungal Molecular Biologist

This position involves independent research on functional analysis of fungal genes and genomes. Responsibilities include leading target approaches to identify and mutate specific fungal genes and gene clusters. An ability to participate as a team member in a diverse research group, sharing expertise and information is required. Experience in yeast-fungal molecular-biology/genetics and a Ph.D. is required. **Job #PGWPRG173P**

### Scientist II-Genetics Group-Transformation Specialist

The individual for this position is highly proficient in molecular genetics and has experience with microbial systems such as yeast and other fungi. They will participate as part of a team that will conduct genome-wide mutagenesis projects. An ability to solve complex research problems and work in a multidisciplinary setting is an asset. BS/MS preferred and 2-4 years of laboratory experience in yeast/fungal molecular biology preferred. **Job #PGWPRG174P**

# Creating a Paradigm for World Innovation

### Scientist I/II in Fungal Research-Microbial Growth and Development Group

Individual will be part of the Microbial Discovery Group. Responsibilities will include performing a wide variety of phenotypic assays on microbial organisms. These assays include a diverse array of technologies and a highly creative individual is needed for this position. Experience with biochemical extractions from microorganisms (yeast/fungi), databases and LIM systems is a definite asset. BS/MS and 2-4 years of laboratory experience required. **Job #PGWPRG175P**

### Scientist I/II-Microbial Genetic Group

Individual will work within a team in the Microbial Genetics Group. A high level of proficiency in a variety of recombinant DNA technologies is required. Creativeness and good communication skills are a must. A BS degree in Microbiology/Genetics and 2+ years of laboratory experience is desired. **Job #PGWPRG172P**

Successful candidates will be offered a competitive salary and benefits package commensurate with experience, stock options as well as an exciting team environment with emphasis on achievement and career development. For consideration, PLEASE INCLUDE THE JOB NUMBER on your cover sheet and submit a resume by 9/8/99 to: Human Resources, Paradigm Genetics, Inc., P.O. Box 14528, RTP, NC 27709; or E-mail: [resumes@paragen.com](mailto:resumes@paragen.com) (MS Word or RTF only) No faxed resumes will be accepted. No phone calls please. Principles only. EOE

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

## GLOBAL OPPORTUNITIES



## Director

The Children's Cancer Institute Australia for Medical Research invites applications for the position of Director of the Institute.

The Institute is committed to saving the lives of all children with cancer and eliminating their suffering through world class research. Basic and translational research is conducted,

- with established programs in experimental
- therapeutics, molecular diagnostics, molecular
- carcinogenesis, leukaemia biology and stem cell
- biology. The organisation is closely affiliated with
- the University of New South Wales and the Sydney
- Children's Hospital.

- The Director will be required to provide strong and
- effective leadership in the overall scientific
- management of the Institute and is responsible for
- the performance and output of the Institute in all its
- research activities. Applicants for the position must
- have an outstanding record of achievement in a
- field related to cancer research as well as
- experience in all aspects of academic
- administration. An attractive salary package will be
- negotiated for the successful applicant.

- Full details of the job specification and selection
- criteria can be found at the Institute's website
- (<http://ccia.org.au/>).
- Applications close 30 November, 1999.

**CHILDREN'S CANCER INSTITUTE AUSTRALIA FOR MEDICAL RESEARCH**

## HEALTH SCIENTIST ADMINISTRATOR

National Institute of Environmental Health Sciences  
National Institutes of Health  
Research Triangle Park, NC

The National Institute of Environmental Health Sciences (NIEHS), located in central North Carolina, is accepting applications for the position of Health Scientist Administrator (Biomedical Sciences). The incumbent will serve as a senior staff scientist and specialist in the neurotoxicology program within the Institute's Division of Extramural Research and Training. A record of independent molecular neurosciences research is expected.

This is a permanent civil service position that will be filled at the GS-13 or GS-14 level, with a salary range of \$56,951 - \$74,035 for GS-13 and \$67,298 - \$87,489 for GS-14. **Requires U.S. citizenship.**

Candidates for both grade levels must have completed all requirements for a Ph.D or equivalent degree in a health or health-related field or have a combination of education and experience equivalent to that acquired in meeting requirements for a Ph.D. In addition, candidates must have additional experience that is described in the vacancy announcement (AR 1016), which may be obtained by calling 919-541-0218; by writing the NIEHS Personnel Office, MD-EC11, P.O. Box 12233, Research Triangle Park, NC 27709; or online at [www.niehs.nih.gov/omhrmb/vacancy/vacancy.htm](http://www.niehs.nih.gov/omhrmb/vacancy/vacancy.htm)

For additional information about the position, you may call Dr. Michael McClure, 919-541-5327.

**APPLICATIONS MUST BE POSTMARKED BY October 15, 1999**

**NIH IS AN EQUAL OPPORTUNITY EMPLOYER**

## POSITIONS OPEN

### ASSOCIATE/ASSISTANT PROFESSOR BACTERIAL PATHOGENESIS AND/OR PHYSIOLOGY

Applications are invited from qualified scientists using contemporary molecular and biochemical techniques to study bacterial pathogenesis and/or physiology to fill a full-time faculty position in the Department of Microbiology and Immunology. Candidates for Assistant Professor should have adequate postdoctoral training, excellent teaching skills, and strong potential for directing an independent research program in medical bacteriology, and obtaining extramural research support. Candidates for a senior-level appointment must have an established research program in medical bacteriology, record of research productivity, and extramural research support. A competitive start-up package and space will be provided. The mission of the Morehouse School of Medicine includes the training of qualified scientists with strong interest in biomedical issues affecting underserved populations. The medical school has ample opportunity for full and rewarding scholarly growth, including strong institutional support, state-of-the-art research facilities, and a productive collaborative environment. Submit applications by November 30, 1999, via mail, e-mail, or FAX, stating the level of interest and include curriculum vitae, statement of research, future plans, and names of three references to: **Joseph U. Igietseme, Ph.D., Associate Professor, Department of Microbiology and Immunology, Morehouse School of Medicine, 720 Westview Drive S.W., Atlanta, GA 30310. E-mail: [igietsej@msm.edu](mailto:igietsej@msm.edu); Telephone: 404-752-1596; FAX: 404-752-1179.**

*MSM is an Equal Opportunity Employer. Underrepresented minorities and women are particularly encouraged to apply.*

### AQUATIC ECOLOGIST ASSISTANT PROFESSOR

The University of Wisconsin-Madison hopes to add an Assistant Professor in the area of aquatic ecology to be appointed in the Department of Zoology and sited in the Center for Limnology. Research interests should include development of a program emphasizing ecological studies of inland waters of the region including the Great Lakes. Teaching opportunities include limnology, ecology of fishes, or other contributions as appropriate to the background of the candidate. Research and teaching interests should generally complement those of current faculty. Collaborative skills are important. Postdoctoral experience is preferred. Interviews will be scheduled for autumn of 1999 with an expected start date of August 2000. Applications will be accepted until 1 October 1999. Send letter of application, curriculum vitae, and names of four referees to: **Dr. Stephen Carpenter, Search Committee Chair, University of Wisconsin-Madison, Center for Limnology, 680 North Park Street, Madison, WI 53706. The University of Wisconsin is an Equal Opportunity Employer. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.**

The State University of New York at Potsdam invites applications for an **ASSISTANT PROFESSOR** of vertebrate biology. Qualifications are a Ph.D. in an area of biology that would prepare one to teach undergraduate courses in comparative anatomy, general physiology laboratory, and general biology required. Applications should demonstrate interest as well as competence in teaching undergraduate biology majors and non-majors. Successful applicant will be expected to maintain a research program that will include participation by undergraduates. Salary \$35,000. Send a letter of application, curriculum vitae, and the names and telephone numbers of at least three references to: **Dr. Albert Robinson, Chair, Department of Biology, SUNY Potsdam, Potsdam, NY 13676. Application deadline is October 1, 1999. State University of New York at Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.**

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE/ FULL PROFESSOR TWO POSITIONS IN STRUCTURAL BIOLOGY University of Wisconsin-Madison

The University of Wisconsin-Madison has created two tenure-track positions (at the Assistant, Associate, or Full Professor level depending on qualifications) with the aim of developing innovative, responsive, and highly competitive research programs that will catalyze productive interactions among faculty and students and expand the contributions of structural biology into the wealth of biological research programs already present on campus. Successful candidates will be expected to develop vigorous, innovative, and independent research programs, advise graduate and postgraduate research in the area of structural biology, develop and maintain extramural funding for their research programs, teach graduate and undergraduate courses (or develop new courses in their area of expertise, as appropriate), and participate in faculty governance activities in the department, college, and/or university. Faculty hired under this initiative will have primary or joint faculty appointments in campus departments or graduate school units participating in fields relating to structural biology. Candidates are sought in research areas that use physical techniques for the determination of biological structures. Special emphasis is being placed on NMR spectroscopy and X-ray crystallography and their application to the elucidation of structure-function relationships. Areas of research focus could include the structures of proteins, nucleic acids, or nucleic acid/protein complexes, macromolecular assemblies, of membranes or membrane proteins; macromolecules at the cell surface; viruses, virus proteins, or virus receptors. \$58,000 per year. Deadline to insure consideration is 1 October 1999. Candidates should submit a letter of application, statement of research and teaching interests, detailed curriculum vitae, and arrange for three letters of reference to be sent to: **Dr. John L. Markley, c/o Julie Gray, Chair, Interdepartmental Structural Biology Search Committee, Department of Biochemistry, University of Wisconsin-Madison, 433 Babcock Drive, Madison, WI 53706-1544 USA. Telephone: 608-263-9349; e-mail: [markley@nmrfam.wisc.edu](mailto:markley@nmrfam.wisc.edu).**

*The University of Wisconsin is an Equal Opportunity Employer, and specifically invites and encourages applications from women and minorities. Note: unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

### THEORETICAL/COMPUTATIONAL CHEMISTRY POSITION AT EMORY UNIVERSITY Department of Chemistry

A new position in theoretical/computational chemistry at the tenure-track **ASSISTANT PROFESSOR** level (under exceptional circumstances possibly at a higher level) will be available beginning the fall semester of 2000. We are interested in individuals who have a strong background in theoretical chemistry and who have interests in applications to problems at the interface between biology and chemistry. Strong commitment to teaching at graduate and undergraduate level is essential. This position is one of several that will be made in the next few years in the areas of biological and materials chemistry, as part of expansion of the department into a new 40,000-square foot facility. The theoretical position will be affiliated with the Cherry L. Emerson Center for Scientific Computation, which will move to the new building in the fall 2000. Applicants should send a curriculum vitae, a research proposal, and a short statement on teaching interest, and make arrangements to have three letters of recommendation sent directly to: **Theoretical/Computational Search Committee, Department of Chemistry, Emory University, Atlanta, GA 30322. Review of applications begins on October 15, 1999, and will continue until the position is filled. Emory University is an Equal Opportunity and Affirmative Action Employer.**

## POSITIONS OPEN

### VASCULAR PLANT SYSTEMATIST

The James Ford Bell Museum of Natural History and the Department of Plant Biology at the University of Minnesota announce a nine-month tenure-track position for an **ASSISTANT PROFESSOR** and herbarium **CURATOR** in the area of vascular plant systematics. Candidates must develop an herbarium-based research program involving vascular plants, emphasizing a conceptual area such as phylogenetics, speciation, biogeography, conservation, or other related topical areas. In addition to maintaining an extramurally funded research program, the successful candidate will be expected to teach an undergraduate course in systematic botany; a course or specialty seminar in his/her area of expertise; advise undergraduate and graduate students; assist in the curation of the sixth-largest academic herbarium in the United States; and help maintain scientific content and accuracy in the public outreach programs of the Bell Museum. A Ph.D. degree and herbarium experience are required; postdoctoral experience is preferred. Please send a curriculum vitae; up to five selected reprints; a statement of research, teaching, and curatorial interests and experience; and names and addresses of three references to: **Dr. David Biesboer, Search Committee Chair, Department of Plant Biology, 220 Biological Sciences Center, 1445 Gortner Avenue, University of Minnesota, St. Paul, MN 55108. The deadline for receipt of applications is 15 October 1999. Review of applications will begin on 18 October 1999 but applications will be accepted until the position is filled. For further information visit the College of Biological Sciences website: <http://biosci.cbs.umn.edu/cbs.html> or contact the Search Chair via Telephone: 612-625-1799; e-mail: [biesboer@tc.umn.edu](mailto:biesboer@tc.umn.edu).**

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

The University of South Dakota School of Medicine, Division of Basic Biomedical Sciences invites applications for two **ASSISTANT/ASSOCIATE PROFESSORS**, tenure-track positions in viral and bacterial host-parasite interaction and/or prokaryotic cell-signaling (virology position funded in part by the Anton Schwarz Endowment for Research in Virology). Ph.D., M.D., or equivalent, postdoctoral experience, and high potential for external funding required. Preference given for research interests complementary to those of current faculty. Successful candidates are expected to participate in instruction of medical and graduate students. Rank and salary commensurate with qualifications. Please submit curriculum vitae, a brief statement of research and teaching experience, and names and addresses of three references to: **Ms. Anita Pederson, Microbiology and Immunology Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, Vermillion, SD 57069. Review of applications will begin October 15, 1999, and continue until the positions are filled. Equal Opportunity/Affirmative Action Employer.**

### MOLECULAR IMMUNOLOGIST

The Northwest Wound Healing Center at the Oregon Health Sciences University has an immediate position available for a full-time Molecular Immunologist who is highly motivated to establish and maintain a program of scholarly activity directed at transplantation immunology. Desirable skills include flow cytometry, ELISA development, cytotoxicity assays, *in situ* hybridization, and a variety of techniques in cloning and gene expression/regulation. A Ph.D. with one to two years of experience is required and preference will be given to candidates with partial support. Salary will be commensurate with qualifications and experience. Send curriculum vitae and names of three references to:

**Dr. Jeffrey O. Hollinger  
Oregon Health Sciences University/L352A  
Division of Plastic and Reconstructive Surgery  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201  
E-mail: [hollinge@ohsu.edu](mailto:hollinge@ohsu.edu)**





# HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States.

HHMI regularly has positions open for research and administrative personnel.

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- Research Specialists/Technicians
- Research Secretaries

#### Administrative Positions:

- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

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



## OREGON HEALTH SCIENCES UNIVERSITY BIOCHEMISTRY & MOLECULAR BIOLOGY

### ASSOCIATE PROFESSOR/PROFESSOR

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is undergoing a period of expansion. We are interested in recruiting a senior faculty member who directs an outstanding research program in contemporary biochemistry.

We will offer an attractive salary and start-up package and the opportunity to play a key role in an interactive and stimulating environment set in one of the most desirable areas in the country. Applications should be received by November 1, 1999. Informal inquiries can be made via email, [kaplanj@ohsu.edu](mailto:kaplanj@ohsu.edu).

Interested candidates should have a sustained record of externally funded research. Send a copy of your curriculum vitae, a description of research interests, and the names of three references to:

**Professor Jack H. Kaplan, Ph.D., F.R.S.**  
Faculty Search (S)  
Department of Biochemistry and Molecular Biology  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098  
<http://www.ohsu.edu/som-Biochem>

*OHSU is an Affirmative Action/Equal Opportunity Employer*



## OREGON HEALTH SCIENCES UNIVERSITY BIOCHEMISTRY & MOLECULAR BIOLOGY

### ASSISTANT PROFESSOR

The Department of Biochemistry and Molecular Biology is seeking an outstanding young scientist for a tenure-track appointment at the Assistant Professor level. We are interested in investigators studying the biochemistry of membrane-related phenomena. These might include, membrane protein structure and function (transporters, receptors), membrane fusion processes, protein trafficking, etc.

We will offer an attractive start-up package, competitive salary and the opportunity to join an interactive department in a stimulating scientific environment set in one of the most desirable areas in the country. Faculty are expected to establish competitive research programs and assist in graduate and medical school teaching. Candidates with a Ph.D. and several years of post-doctoral experience should apply by November 1, 1999 sending a copy of their curriculum vitae, a description of research plans and interests and the names of three references to:

**Professor Jack H. Kaplan, Ph.D., F.R.S.**  
Department of Biochemistry and Molecular Biology  
Oregon Health Sciences University  
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098  
<http://www.ohsu.edu/som-Biochem>

*OHSU is an Affirmative Action/Equal Opportunity Employer*

## POSITIONS OPEN

### AQUATIC/WATERSHED SCIENTIST

The Patrick Center for Environmental Research of the Academy of Natural Sciences invites applications for a **CAREER-TRACK RESEARCH POSITION** with expertise in one or more of the following areas: restoration ecology, environmental engineering, watershed modeling (including GIS analysis), nutrient dynamics.

Applicants must have a Ph.D. (postdoctoral experience desirable), and are expected to build an externally funded research program that will complement and strengthen our existing basic and applied research programs in (1) hydrology; (2) biogeochemistry; (3) physiological, population, and community ecology; and (4) ecosystem structure and function. The Patrick Center conducts interdisciplinary studies of streams, rivers, tidal systems, and lakes (including urban watersheds), and examines the effects of human activities on these systems. Patrick Center scientists are also encouraged to affiliate with local universities (e.g., University of Pennsylvania and Drexel University) to teach and train students.

Send curriculum vitae, statement of research interests, and names, addresses, telephone numbers, and e-mail addresses of four references to: **Chair, Aquatic/Watershed Scientist Search, Patrick Center for Environmental Research, Academy of Natural Sciences, 1900 Ben Franklin Parkway, Philadelphia, PA 19103. Website: [www.acnatsci.org/research/pcer](http://www.acnatsci.org/research/pcer).**

*The Academy of Natural Sciences is an Equal Opportunity Employer.*

### ASSOCIATE DIRECTOR OF RESEARCH FOR THE NEWLY ESTABLISHED CROHN'S AND COLITIS CENTER OF NEW JERSEY

The University of Medicine and Dentistry of New Jersey (UMDNJ), New Jersey's University of Health Sciences, seeks to fill a full-time faculty position with a Ph.D. or M.D. degree at **ASSISTANT or ASSOCIATE PROFESSOR**, tenure-track level to lead the research group of the Crohn's and Colitis Center (CCC), in the Department of Medicine, UMDNJ-Robert Wood Johnson Medical School. Expertise in molecular and cellular immunology and mechanism of inflammation is essential. Initial guaranteed support is available. The candidate will be able to work in an independent, challenging environment and to develop programs related to the immunopathogenesis of intestinal inflammation. Participation in clinical research is also anticipated. Please submit curriculum vitae, letter summarizing desired future plan, and names/addresses of three references to: **Kiron M. Das, M.D., Ph.D., Director, Crohn's and Colitis Center of New Jersey, University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, Department of Medicine/Division of Gastroenterology, One Robert Wood Johnson Place-MEB 478, New Brunswick, NJ 08903-0019. Visit our website: <http://www.umdj.edu>. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.**

### SENIOR STAFF ASSOCIATE OF RESEARCH COLUMBIA UNIVERSITY

The Gertrude H. Sergievsky Center currently has a full-time position available for a Senior Staff Associate to create and maintain database management systems for epidemiological and environmental research on disease. Responsibilities include database programming, developing data retrieval specifications, and statistical analysis. Knowledge in data management with experience in SIR, SPSS, SAS, and Access required. Background in biology, psychology, statistics, and/or health sciences research required. Salary commensurate with experience.

Qualified applicants send résumé with salary history to: **Howard Andrews, Ph.D., Columbia University, Psychiatry Department, 1051 Riverside Drive, Unit 47, New York, NY 10032.**

*We take Affirmative Action toward Equal Employment Opportunity.*

## POSITIONS OPEN

Supervisory Research Animal Scientist/Range Scientist/Geneticist (Animal)/Physiologist (Animal), GS-14/15. The USDA, Agricultural Research Service, is recruiting a **RESEARCH LEADER** for the U.S. Sheep Experiment Station, Range Sheep Production Efficiency Research Unit, Dubois, Idaho. The incumbent will lead a broad-scale attack on complex problems of major importance to range sheep production and management of range resources for sustained grazing and wildlife use. The mission of the Unit is to solve western, national, and international sheep production and range ecosystem problems of the biological functions of sheep and their interaction with the physical and economic environment; to develop genetic lines of sheep and/or selection criteria for existing breeds; to produce sheep that optimally utilize the grazing lands of the western United States; to define the effects of grazing on range ecosystems; and to develop management and monitoring systems to optimize the effects of grazing. The Research Leader's personal research will be in the area of animal breeding and genetics or ruminant nutrition or reproductive physiology or ecology of range management or animal production systems. The incumbent supervises a staff of five scientists and a support staff of 11. The facility is located on an 87,000-acre experimental range in eastern Idaho near the town of Dubois. Salary is commensurate with experience (\$67,298 to \$102,907 per annum). A Ph.D. is preferred. *U.S. citizenship is required.* For more information contact: **Ms. Sharon Weller, Telephone: 208-374-5306** or see the vacancy announcement (#ARS-X9W-9385) on our website: <http://www.ars.usda.gov>. The announcement closed August 30, 1999. *The USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.*

### PROGRAM ADMINISTRATOR PROGRAM IN MOLECULAR ONCOLOGY

Seeking Research Scientist familiar with scientific writing, academic collaborations, and organizational planning to play a critical role in developing and managing the new program in molecular oncology based at the Dana-Farber Cancer Institute. Reporting to and working with the Program Director, you will develop and coordinate the research mission, oversee the recruitment of new faculty and Fellows, facilitate the set-up of new program facilities, and organize seminars. You will also assist with the identification of funding sources and the preparation of applications, and will work closely with the Institute's Development Office to build support for the program. A higher degree in a molecular biology-related field is required; a Ph.D. is strongly preferred. Interested candidates should forward curriculum vitae to:

**Dana-Farber Cancer Institute  
Attn: Stanley J. Korsmeyer, M.D.  
Director, Program in Molecular Oncology  
44 Binney Street, SM-758  
Boston, MA 02115  
Telephone: 617-632-6402  
E-mail: [stanley\\_korsmeyer@dfci.harvard.edu](mailto:stanley_korsmeyer@dfci.harvard.edu)  
Equal Opportunity Employer.**

### RESEARCH SCIENTIST

The Laboratory for Structural Biology at The University of Alabama in Huntsville invites applications for a Research Scientist with skills in protein expression and purification. This NASA-funded position will support crystallography studies of bone and cartilage-related proteins. The successful candidate will have expertise in expression vector construction, recombinant gene expression, and protein purification. Experience in protein crystallization would be a plus. Applicants should have a Ph.D. and postdoctoral experience.

Applications should submit curriculum vitae and the names of three references to: **Dr. Edward Meehan, Director, Laboratory for Structural Biology, MS Building 235, The University of Alabama in Huntsville, Huntsville, AL 35899.** The position is available immediately. *Applications from women and minority candidates are encouraged. An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### EUKARYOTIC MICROBIAL PATHOGENESIS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Stanford University School of Medicine

The Department of Microbiology and Immunology invites applicants for a full-time, tenure-track position in the area of eukaryotic microbial pathogenesis, i.e., the study of protozoal and fungal pathogens. Within this broad scope, any aspect will be considered but persons with an interest in molecular basis of pathogenicity and/or the host immune response are especially encouraged to apply. This position will likely be filled by an individual at the level of **ASSISTANT PROFESSOR**, although applications at the rank of **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** will also be considered. The individual filling this position will play a major role in the graduate training program and teaching programs of the Department. The position offers an excellent environment in microbiology, immunology, and other basic biomedical sciences; outstanding scientific resources; and a wide variety of potential research collaborations. Applicants are encouraged to submit a curriculum vitae, bibliography, a brief (one to two pages) description of research interests and future plans, and three letters of recommendation by December 1, 1999, to:

**Dr. John C. Boothroyd  
Chair, Search Committee  
Department of Microbiology and Immunology  
Stanford University School of Medicine  
299 Campus Drive  
Fairchild Building, Room D-305  
Stanford, CA 94305-5124**

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

### CHEMICAL ENGINEER or RESEARCH FOOD TECHNOLOGIST. GS-12/13/14/15.

The USDA, Agricultural Research Service, is recruiting a Chemical Engineer or Research Food Technologist for a research assignment attached to the Western Regional Research Center, but with a duty station in Fairbanks, Alaska. The mission of this research is to develop effective and economical utilization of by-products from fish processing, particularly to convert what now is discarded into useful feed ingredients that can supplement or replace edible fish for aquaculture and other livestock. The incumbent will develop techniques for economically collecting, processing, and utilizing waste byproducts, and for extracting and processing high-value minor constituents of the waste byproducts. The research program is cooperative with the School of Fisheries and Ocean Sciences at the University of Alaska, Fairbanks, with temporary work assignments at Kodiak, Alaska. Salary is commensurate with experience, \$45,236 to \$102,907 per annum (plus 25% COLA). A Ph.D. is preferred. *U.S. citizenship is required.* For more information contact: **Dr. Arthur Schipper, Telephone: 510-559-6071** or see the vacancy announcement (#ARS-X9W-9368) on our website: <http://www.ars.usda.gov>. Applications must be postmarked by August 30, 1999. *The USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.*

### RESEARCH ECOLOGIST

Applications are invited for a permanent GS-14/15 position with the U.S. Forest Service (USFS) Pacific Southwest Research Station, 'Conservation of Wildlife Populations in Managed Landscapes,' Redwood Science Laboratory in Arcata, California. Conduct research on ecological processes and functions at the landscape scale such as disturbance dynamics, wildlife habitat relations, population dynamics, and succession processes. Experience with multivariate statistics, modeling, research in applied issues in forestry, or wildlife biology. GIS and spatial statistical analyses are desired. The vacancy announcement PSW-DEMO-366-99 and application procedures are available from: **The Personnel Office, Telephone: 510-559-6350.** Closing date is October 1, 1999. Website: [www.usajobs.opm.gov/wfjc/jobs/1F7187.htm](http://www.usajobs.opm.gov/wfjc/jobs/1F7187.htm). *The USFS is an Equal Opportunity Employer.*

## POSTDOCTORAL POSITION IN FUNGAL MOLECULAR PHYLOGENETICS

The USDA, Agricultural Research Service (ARS), Microbial Properties Research (MPR) Unit, National Center for Agricultural Utilization Research, Peoria, Illinois is accepting applications for the position of POSTDOCTORAL RESEARCH ASSOCIATE (GS-11, \$39,960, plus benefits). The MPR Unit maintains the ARS Culture Collection (NRRL), which is used for interdisciplinary research on the molecular systematics, phylogenetics and diagnostics of agriculturally, industrially and medically important microorganisms. The Unit has state-of-the-art research facilities. The incumbent will investigate the molecular systematics, phylogeny, and/or population biology of selected plant pathogens within the filamentous fungus *Fusarium*. Ph.D. in molecular biology/microbiology/mycology/ botany or a related field.

Candidates for this position should have a strong research background in molecular systematics and/or population biology. *Candidates need not be a U.S. citizen.* A complete copy of the vacancy announcement [ANNOUNCEMENT NO: RA-99-17H] and where to apply can be found at website: <http://www.ars.usda.gov/afm/hrd/hrdhomepage/vacancy/pd962.html>.

Please send curriculum vitae, resume, or optional application for Federal Employment and names of three references to Dr. Kerry O'Donnell, NCAUR/ARS/USDA, 1815 N. University Street, Peoria, IL 61604-3999; email [kodonnell@sunca.ncaur.usda.gov](mailto:kodonnell@sunca.ncaur.usda.gov).

*USDA/ARS is an equal opportunity employer.*

## GRADUATE PROGRAM

## Developmental Biology: Understanding the Blueprint of Life

### Washington University Program in Developmental Biology:

Our interdepartmental PhD program in developmental biology involves 70 faculty who work in vertebrate and nonvertebrate model systems. Faculty research is described in our web page ([molecool.wustl.edu/devbiol.home.html](http://molecool.wustl.edu/devbiol.home.html)).

Topics address a broad range of fundamental questions, including those dealing with stem cell biology, cell fate specification, cell migration and guidance, growth control, programmed cell death, morphogenesis, and patterning.

For more information visit our web page, e-mail us at [stacyk@dbbs.wustl.edu](mailto:stacyk@dbbs.wustl.edu), or send inquiries to:

Developmental Biology Program  
Division of Biology and Biomedical Sciences  
Washington University  
660 So. Euclid Ave, Box 8226  
St. Louis, MO 63110 USA

For postdoctoral inquiries, contact individual faculty listed on our web page.



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### PROGRAM ON MEMBRANE PROTEINS POSTDOCTORAL RESEARCH POSITIONS TRANSPORTER STRUCTURE-FUNCTION

The Program on Membrane Proteins (PMP) at the University of Texas Medical Branch at Galveston seeks to fill several postdoctoral positions during the coming year. This research is an international effort directed toward studies of the atomic structure and normal and pathological functions of membrane proteins.

Several postdoctoral positions are immediately available in the Department of Physiology and Biophysics to work on structure-structure function relationships and/or function of membrane proteins, in the following laboratories:

Guillermo Altenberg - MDR proteins ([galtenbe@utmb.edu](mailto:galtenbe@utmb.edu))  
Steven King - GABA transporters ([steven.king@utmb.edu](mailto:steven.king@utmb.edu))  
Ehud Landau - Retinal proteins ([emlandau@utmb.edu](mailto:emlandau@utmb.edu))  
Javier Navarro - G-protein coupled receptors ([jnavarro@utmb.edu](mailto:jnavarro@utmb.edu))  
Ana Pajor - Renal Na<sup>+</sup>/citrate transporters ([ampajor@utmb.edu](mailto:ampajor@utmb.edu))  
Brian Pearce - Anion exchangers and Na<sup>+</sup>/phosphate cotransporters ([bpeerce@utmb.edu](mailto:bpeerce@utmb.edu))  
Luis Reuss - Ion channels related to epithelial-cell injury ([lreuss@utmb.edu](mailto:lreuss@utmb.edu))

The successful candidates must possess a Ph.D., M.D., or equivalent degree, with no more than four years postdoctoral experience. A background in biochemistry, molecular biology, or biophysics would be an asset. For more information access: <http://physiology.utmb.edu>. To apply, submit a cover letter stating your plans and qualifications, your CV and publications list, and names of three references to the scientist with whom you are interested in working, to Department of Physiology and Biophysics, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0641. *UTMB is an equal opportunity M/F/D/V Affirmative Action Employer.*



## POSITIONS OPEN

### DIRECTOR OF CENTER FOR INTEGRATIVE NATURAL SCIENCE AND MATHEMATICS

Northern Kentucky University invites applications for Director of its new Center for Integrative Natural Science and Mathematics (CINSAM), an interdisciplinary Center supported by the Kentucky Regional Excellence Trust Fund. The Center is to form partnerships with schools and industry, and foster collaboration across education, the natural sciences, mathematics, and computer science, including undergraduate research and externships in mathematics and science.

The position requirements include a Doctorate in the natural sciences, mathematics, or computer science. The salary for this 12-month position will be competitive and the rank will be commensurate with qualifications and experience.

The position is available immediately, with a start date no later than July 1, 2000. Applications will be accepted until the position is filled. Details about the position and the Center are available at [website: http://www.nku.edu/~math/cinsam](http://www.nku.edu/~math/cinsam) or:

**Daniel Curtin, Chair**  
**CINSAM Director Search Committee**  
**Department of Mathematics and Computer Science**  
**Northern Kentucky University**  
**Highland Heights, KY 41099**  
**Telephone: 606-572-6348**  
**E-mail: [curtin@nku.edu](mailto:curtin@nku.edu)**

*Northern Kentucky University is an Equal Opportunity/Affirmative Action Employer.*

#### STAFF SCIENTIST #SD-9757

Design and perform studies to identify T cell responses induced in early HIV-1 infection, exposed uninfected subjects, and vaccine recipients. Responsible for all technical phases of study, data analysis, oral and written presentations, overseeing and coordinating laboratory staff. Will streamline specimen transfer and data analysis for multicenter studies. Requires M.D. and/or Ph.D., experience with T cell cloning, cellular immunologic assays, flow cytometry, and molecular biology. Send cover letter and curriculum vitae (include job number) to:

**Fred Hutchinson Cancer Research Center**  
**Human Resources**  
**1300 Valley Street**  
**Seattle, WA 98109**  
**FAX: 206-667-4051**  
**TTY: 206-667-6861**  
**E-mail: [jobresponses@fhcrc.org](mailto:jobresponses@fhcrc.org)**  
**Website: <http://www.fhcrc.org/admin/hr/jobbullet>**  
*FHCRC is an Equal Opportunity Employer.*

**RESEARCH ASSOCIATE** position available immediately to study transplant-mediated recovery of motor function after spinal injury. The multidisciplinary and collaborative research assessment includes functional recovery in rats with transplants of cells modified to promote regeneration. Competitive salary and outstanding opportunities for career development. Candidate should have expertise in motor control or kinesiology. Send curriculum vitae, statement of research interests, and names of three references to: **Dr. Marion Murray, Department of Neurobiology, MCP Hahnemann University, 3200 Henry Avenue, Philadelphia, PA 19129. E-mail: [murray@mcphu.edu](mailto:murray@mcphu.edu). Equal Opportunity Employer.**

#### POSTDOCTORAL FELLOWSHIPS

Michigan Society of Fellows Postdoctoral Fellowships program is offering three-year Fellowships at the University of Michigan to begin September 2000. Annual stipend will be \$36,000. Application postal deadline: October 9, 1999. For information and applications, contact: **Society of Fellows, 3030 Rackham Building, University of Michigan, 915 East Washington Street, Ann Arbor, MI 48109-1070. E-mail: [society.of.fellows@umich.edu](mailto:society.of.fellows@umich.edu); website: [www.rackham.umich.edu/Faculty/society.htm](http://www.rackham.umich.edu/Faculty/society.htm). No e-mail applications accepted.**

## POSITIONS OPEN

### NEXTRAN

AN AFFILIATE OF BAXTER HEALTHCARE CORPORATION

#### SCIENTISTS

**NEXTRAN**, an affiliate of Baxter Healthcare and an established leader in xenotransplantation research, has two Ph.D. positions available at our Princeton, New Jersey location.

**IMMUNOLOGIST:** We are looking for an innovative Immunologist (Ph.D. with postdoctoral experience preferred) interested in investigating the unique immunological challenges that are presented by xenotransplantation. The successful candidate will join an active team that supports our preclinical transplantation program and is focused on research to control the immune response induced during pig-to-primate xenografts. Candidates with general expertise in B-cell activation, or with experience in primate immunology are preferred, but all candidates will be considered. Responsibilities will be commensurate with experience.

**VIROLOGIST:** Extensive experience working with retroviruses (Ph.D. plus postdoctoral experience preferred), with proficiency in basic molecular biology and tissue culture techniques are required for this position. Incumbent will join an established group that is characterizing porcine endogenous retroviruses at the molecular and functional level.

**NEXTRAN** offers an excellent working environment along with competitive compensation and benefits. Please submit your curriculum vitae indicating the position you are applying for and your salary requirements to:

**The Human Resources Manager**  
**NEXTRAN**  
**303B College Road East**  
**Princeton, NJ 08540**

**POSTDOCTORAL POSITIONS** (two positions) available immediately to apply cellular and molecular biology techniques to study effects of free radicals in pesticide-induced immunotoxic and neurodegenerative mechanisms. Study signal transduction in regulating NF-kappaB, CD28 signaling, NIK kinase, and apoptosis. Applicant should have experience in cell biology with molecular biology or immunology. Send curriculum vitae and names of three references to: **Dr. Hara P. Misra, Center for Molecular Medicine and Infectious Diseases, Department of Biomedical Sciences and Pathobiology, Virginia Tech, Blacksburg, VA 24061-0342. E-mail: [hmisra@vt.edu](mailto:hmisra@vt.edu). Virginia Tech Job identification numbers: 111759 and 111760. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS.** To study regulation of retinoid metabolism during embryogenesis and/or disease. Research involves (1) cloning and characterizing genes that encode the enzymes of retinoic acid biosynthesis; (2) functions and interactions of various retinoid enzymes and binding proteins; (3) localization of retinoid enzymes by *in situ* hybridization; (4) molecular mechanisms of endocrine regulation of retinoid biosynthesis; (5) development and study of transgenic mice models. Send curriculum vitae and names of at least three references to: **Dr. J. L. Napoli, Department of Nutritional Sciences, University of California, Berkeley, CA 94720-3104.**

**RESEARCH ASSOCIATE POSITION** at the University of Washington available immediately for NIH-funded research in molecular mechanisms of nucleoside transport. Applicants must have a Ph.D. and experience in standard molecular biology techniques and immunolocalization and in one or more of the following areas: yeast genetics, cell culture, or expression systems. Send curriculum vitae and three letters of reference by September 20, 1999, to: **Dr. Unadkat, Department of Pharmacutics, Box 357610, University of Washington, Seattle, WA 98195. E-mail: [pceut@u.washington.edu](mailto:pceut@u.washington.edu); FAX: 206-543-3204.**

## POSITIONS OPEN

**BIOPHYSICAL RESEARCH SPECIALIST.** A full-time position exists for an individual to participate in biophysical research on the mechanobiology of DNA-specific enzymes using single-molecule manipulation and spectroscopy techniques. The candidate must possess a Doctoral degree in biophysics, physical chemistry, or comparable discipline, at least five years of experience performing research in molecular biophysics using single-molecule methods, and proof of scientific output and creativity through visible and significant publications. Prior research interest should include biopolymer physics, nucleic acids structure, DNA-protein interactions, and protein structure/folding. Strong skills are required in instrument design, electronics, computer/instrument interface, numerical methods, optics, and molecular biology. Experience with optical tweezers, fluorescence microscopy, and/or AFM highly desirable. Salary range: \$55,700 to \$79,100 per annum, salary commensurate with experience and qualifications. Send résumé, description of research experience, bibliography, and statement of interests by September 20, 1999, to: **Dr. Carlos Bustamante, Department of Molecular and Cell Biology, 229 Stanley Hall, University of California, Berkeley, CA 94720-3206. The University of California is an Equal Opportunity/Affirmative Action Employer.**

#### POSTDOCTORAL RESEARCH ASSOCIATE

Searching for a Postdoctorate to work on the reconstitution of human T cells from severe lymphocytopenia, primarily using DNA techniques like T cell rearrangement excision circles and sequencing of the complementarity-determining region 3 of the T cell receptor beta chain gene. Qualifications: Ph.D. and expertise in DNA techniques. Experience with T cells would be of advantage. Starting date: October or November 1999. Salary dependent on experience. Deadline: September 30, 1999. Please mail or e-mail your curriculum vitae to:

**Jan Storek, M.D., Ph.D.**  
**Associate, Fred Hutchinson Cancer Research Center**  
**Instructor, University of Washington**  
**1100 Fairview Avenue North, D1-100**  
**Seattle, WA 98109-1024**  
**E-mail: [jstorek@fhcrc.org](mailto:jstorek@fhcrc.org)**  
**Website: <http://www.fhcrc.org/admin/hr/jobbullet>**  
*FHCRC is an Equal Opportunity Employer.*

#### POSTDOCTORAL POSITIONS

Two Postdoctoral positions are open. One is to study iron regulatory protein (IRP) structure and function. Applicants should be proficient in molecular biology and experience in yeast molecular genetics is desirable, but not required. The second position is for protein crystallography studies of signal transduction proteins. Applicants should be proficient in molecular biology and protein purification and will receive training in crystallographic methods. Interested applicants should send curriculum vitae and names of three references to: **Dr. W. E. Walden (IRP structure/function) or Dr. K. W. Volz (protein crystallography), University of Illinois at Chicago, Department of Microbiology/Immunology, 835 South Wolcott (M/C 790), Chicago, IL 60612-7344. UIC is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL FELLOWSHIP** in the neurobiology of the neurohypophyseal system. The Section on Neural Gene Expression at the National Institute of Mental Health, National Institutes of Health (NIH), seeks a broadly trained Neuroscientist with background in molecular biology. Experience with rodent behavior and physiology is highly desirable. Fellow will generate and study knockout and transgenic mice as part of investigations into the regulation and roles of vasopressin, oxytocin, and their receptors in the brain. Requirements: Ph.D. or M.D. within the last five years. Send curriculum vitae, letters, and pertinent reprints to: **Dr. W. Scott Young, Section on Neural Gene Expression, NIMH, 36 Convent Drive, MSC 4068, Bethesda, MD 20892-4968. NIH is an Equal Opportunity Employer.**

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# Combinatorial Chemistry

brand new purpose-built state-of-the-art facilities

rural Herts/Essex border

Merck Sharp & Dohme is part of Merck & Co., Inc., one of the world's leading pharmaceutical companies. Merck discovers, manufactures and markets a broad range of products to improve human and animal health, and has an unparalleled reputation for innovative research.

**The Neuroscience Research Centre**, one of the largest of

its kind in the UK, is totally committed to neuroscience research and the discovery of novel therapies for the treatment of disorders of the central nervous system.

We are rapidly expanding our Combinatorial Chemistry group and now seek additional highly talented, highly motivated scientists:

## Post Doctoral Chemist

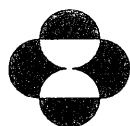
A good team player, open minded and keen to embrace new technologies, you'll have an outstanding achievement record during at least two years post doctoral studies in a top academic laboratory, and ideally possess experience within combinatorial chemistry. Computer literacy and good communication skills are essential. Ref: CH9977736.

We offer excellent salary and benefits including private healthcare, childcare facility and relocation, where appropriate. Please write, with a full CV quoting the appropriate reference, to:

## Experienced Graduate/Recent PhD

Adaptable, quick to learn and able to operate effectively both individually and in a team, you'll have a strong interest in automation and either a BSc in Chemistry and at least three years synthetic experience or a PhD. Either way, you'll relish the opportunity to develop your career in a progressive environment. Ref: CH9977737.

Recruitment Co-ordinator, Human Resources Department,  
**The Neuroscience Research Centre**,  
Merck Sharp & Dohme, Terlings Park, Eastwick Road,  
Harlow, Essex CM20 2QR. E-mail: tp\_hr@merck.com



# MERCK SHARP & DOHME

## EUROPEAN OPPORTUNITIES



Universität Heidelberg

The Faculty for Clinical Medicine Mannheim of the University of Heidelberg invites applications for the appointment of

### Professor of Molecular Biology (C 3 Position)

who will be responsible for research and teaching in his field.

The successful candidate will be Head of a Research Department at the Central Institute of Mental Health in Mannheim and will conduct research of normal and pathological processes of memory and learning and aging in close cooperation with our clinical departments. He should be willing to work together with neurobiological and neuropharmacological groups at the Institute, at the German Cancer Research Center and the Institute for Cellular Molecular Biology in Heidelberg.

He should have an outstanding scientific and publication record and should be interested in clinical issues.

The Central Institute of Mental Health in Mannheim, affiliated to the University of Heidelberg, has the status of Medical School and is one of the most renowned psychiatric institutions in Germany. It houses four Clinical Departments offering mental health care to a population of approx. half million. It is also an established clinical research institute with strong focuses in epidemiology, clinical psychology, biostatistics, neuroradiology, psychophysiology, psychopharmacology, molecular biology and addiction research.

Appointment will be in accordance with the Foundation of the Central Institute of Mental Health. Please submit applications (Curriculum Vitae, List of Publications, References) within eight weeks from publication to: Dekan der Fakultät für Klinische Medizin Mannheim der Universität Heidelberg, Herrn Prof. Dr. K van Ackern, Klinikum Mannheim, Postfach 10 00 23, D-68135 Mannheim

The University of Heidelberg is an equal opportunity employer.



## MAYO CLINIC POSTDOCTORAL POSITION

A postdoctoral fellowship position will become available starting December, 1999 in an NIH-grant funded laboratory in the Departments of Pediatrics and Immunology. Research will focus on the mechanism of action of CAML, a protein involved in signal transduction. A major emphasis of the project is to elucidate key steps in development, as well as signaling events that contribute to lymphocyte function. Methods currently in use include protein-interaction studies combined with mouse knockout technology. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Clinic is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Applications including a curriculum vitae, summary of past accomplishments and names of three references should be sent to:

**Richard J. Bram, MD, PhD**

**5-20 Guggenheim**

**Mayo Clinic**

**Rochester, MN 55905**

**e-mail: richard.bram@mayo.edu**

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

## POSITIONS OPEN

### POSTDOCTORAL CHEMISTS

#### Immediate Opening for Capable Postdoctoral Chemists

The successful candidates will contribute to ongoing and new projects in the development of 99mTc-labeled peptide, protein, and oligonucleotide radiopharmaceuticals for infection/inflammation and cancer imaging. Short and long-term funding from federal agencies and industry. We are seeking at least one Inorganic/Chelation Chemist and a Protein/Peptide Chemist.

Qualified applicants may submit a résumé to: **Mary Rusckowski, Ph.D., Associate Professor, Division of Nuclear Medicine, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. FAX: 508-856-4572; e-mail: mary.rusckowski@banyan.ummed.edu. An Equal Opportunity/Affirmative Action Employer.**

A **POSTDOCTORAL RESEARCH POSITION** is available for the study of the molecular pharmacology of the parathyroid hormone receptor, a G protein-coupled receptor critically involved in skeletal development and calcium homeostasis. A focus of the research will be the analysis of constitutively active receptors using novel peptide ligands, receptor mutants, and photoaffinity crosslinking analogs. Those interested should send their curriculum vitae and three letters of recommendation to:

**Dr. Thomas J. Gardella  
Endocrine Unit  
Wellman 5**

**Massachusetts General Hospital  
Boston, MA 02114**

**E-mail: gardella@helix.mgh.harvard.edu**

**POSTDOCTORAL POSITION** in chemical toxicology. One Postdoctoral position is available immediately in the laboratory of **Dr. Judy L. Bolton**. The position involves the study of reactive metabolites generated from metabolism of estrogens and antiestrogens. Qualifications: Ph.D. in life sciences, with experience in some of the following areas/techniques highly desirable: molecular biology, biochemistry, HPLC, animal work, <sup>32</sup>P-postlabeling, and cell culture. Send résumé and names of three references to: **Dr. Judy L. Bolton, Department of Medicinal Chemistry and Pharmacognosy (M/C 781), University of Illinois at Chicago, 833 South Wood Street, Chicago, IL 60612-7231. E-mail: judy.bolton@uic.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

### UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

**POSTDOCTORAL POSITION** available to perform ultrastructural studies of afferents to noradrenergic neurons in the locus coeruleus and other brain nuclei. A collaboration with **Dr. Pat Card**, the project involves the latest techniques in immunohistochemistry and transneuronal tract-tracing. Extensive experience with electron microscopy required. Excellent salary and benefits. Send curriculum vitae and names of three references to: **Dr. Gary Aston-Jones, Department of Psychiatry, University of Pennsylvania, VA Medical Center (151), University of Woodland Avenues, Philadelphia, PA 19104.**

Two **POSTDOCTORAL POSITIONS** are available immediately in Georgetown University Medical Center to investigate (1) therapeutic potential and mechanisms of action of a novel secreted ligand of TNG family (sLIGHT, *J. Clin. Invest.* 102:1142, 1998); (2) novel peptide and small molecule inhibitors of Grb2 SH2 domain. Candidates should have a Ph.D. degree with training in tumor immunology, signal transduction, apoptosis, protein purification, and molecular biology. Please forward résumé, summary of research, and three references to: **Dr. Dajun Yang, E508 Research Building, Department of Oncology/Lombardi Cancer Center, Georgetown University Medical Center, 3970 Reservoir Road N.W., Washington, DC 20007. FAX: 202-687-7505; e-mail: yangd@gunet.georgetown.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS THE JOHNS HOPKINS UNIVERSITY

Postdoctoral Research positions are available to study the molecular mechanisms regulating cell proliferation, differentiation, and tumorigenesis. Projects will focus on the biological functions of a class of newly identified zinc finger transcription factors including gut-enriched Krüppel-like factor (GKLF) during growth and differentiation of the mammalian intestinal epithelium. Candidates should have a Ph.D. or M.D. degree with expertise in molecular biology. Send curriculum vitae, names of three referees, and a summary of research experience and interests to: **Vincent W. Yang, M.D., Ph.D., Department of Medicine, The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: vyang@welch.jhu.edu. Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITIONS IN IMMUNOLOGY BAYLOR COLLEGE OF MEDICINE

Postdoctoral positions are immediately available in the Department of Microbiology and Immunology to study the somatic genetics of *in vivo* immune responses, antigen-driven lymphocyte differentiation, and germinal center biology. Applicants should have a Ph.D. or M.D. degree and experience in molecular and cell biology. Please send curriculum vitae and names and addresses of three references to: **Biao Zheng, M.D., Ph.D., One Baylor Plaza, M929/DeBakey Building, Baylor College of Medicine, Houston, TX 77030-3498. E-mail: bzheng@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.**

### POSTDOCTORAL RESEARCH FELLOW IMMUNOCHEMISTRY

Position available immediately in a laboratory of the Department of Neurology, Columbia Presbyterian Medical Center, to investigate autoimmune mechanisms of neurological diseases. Experience with chemical conjugation, and with glycolipids, protein, and carbohydrate chemistry desired. Salary commensurate with experience. Send cover letter, curriculum vitae, and names of three references to: **Norman Latov, M.D., Ph.D., Professor of Neurology, The Neurological Institute, Columbia Presbyterian Medical Center, 710 West 168th Street, New York, NY 10032. FAX: 212-305-3986; e-mail: nl2@columbia.edu.**

### POSTDOCTORAL POSITION

A Postdoctoral position is available in the Department of Immunology and Infectious Diseases at Harvard School of Public Health. The area of research will focus on the mechanisms of how specific oligosaccharides drive CD4+ Th2 type responses, with particular reference to autoimmune diseases and the treatment of allergic asthma. Experience in immunology is preferred. Please send curriculum vitae and the names of three references to: **Dr. Donald Harn, Department of Immunology and Infectious Diseases, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. FAX and e-mail responses will not be reviewed. Harvard University is an Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL RESEARCH FELLOW MOLECULAR IMMUNOLOGY

Position available immediately in a laboratory of the Department of Neurology, Columbia Presbyterian Medical Center, to investigate autoimmune mechanisms of neurological diseases and to generate humanized antibodies. Experience in molecular biology of antibody genes and cell culture desired. Salary commensurate with experience. Send cover letter, curriculum vitae, and names of three references to: **Norman Latov, M.D., Ph.D., Department of Neurology, Columbia University, 710 West 168th Street, New York, NY 10032. FAX: 212-305-3986; e-mail: nl2@columbia.edu.**

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS.** Thomas Jefferson University, Philadelphia, Pennsylvania. Atherosclerosis and diabetes. NIH-funded positions (1) for molecular and cell biologic investigations of human arterial matrix and its relation to the development of atherosclerosis (see: *J. Clin. Invest.* 100:1611) and (2) to study tyrosine phosphatases in insulin action using recombinant proteins, cellular transfection, transgenic models, and clinical materials from human subjects (see: *J. Clin. Invest.* 95:2806). Send curriculum vitae and names of three references to: **Division of Endocrinology, Diabetes, and Metabolic Diseases, Thomas Jefferson University, 1020 Locust Street, Suite 348, Philadelphia, PA 19107-6799. FAX: 215-923-7932. Equal Opportunity Employer.**

**POSTDOCTORAL ASSOCIATE and RESEARCH SCIENTIST** positions available for studies of nuclear receptors/coactivators/corepressors in cancer biology and embryonic development. Experimental systems include primary tumors, embryonic stem cell cultures, and transgenic mice. At least three years of research experience in protein chemistry and purification is required. Send curriculum vitae and names of three references to: **Dr. Li-Na Wei, Department of Pharmacology, 6-120 Jackson Hall, University of Minnesota, 321 Church Street S.E., Minneapolis, MN 55455. E-mail: weixx009@maroon.tc.umn.edu; FAX: 612-625-8408. The University of Minnesota is an Equal Opportunity Educator and Employer.**

NIH-supported **POSTDOCTORAL or RESEARCH ASSOCIATE** position is available immediately to study the mechanisms of tissue injury following ischemia and reperfusion. The successful candidate must have a Ph.D. and have published experience in biochemistry. Experience in protein expression, protein-protein interactions, and PCR is desired. Position remains open until filled. A curriculum vitae should be sent to: **Gregory L. Stahl, Ph.D., Center for Experimental Therapeutics and Reperfusion Injury, Anesthesia, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. FAX: 617-278-6957.**

**POSTDOCTORAL POSITION** is available immediately to do NIH-funded research on growth factors and transmitters in pain transmission. Candidates must have a Ph.D. degree or equivalent by the time of appointment with preference for experience in molecular biology, autoradiography, immunohistochemistry, or behavior. Send curriculum vitae, three letters of reference, and summary of expertise to: **Dr. Alice A. Larson, Ph.D., Graduate Program in Neuroscience, University of Minnesota, 1988 Fitch Avenue Room 295, St. Paul, MN 55108 USA. Position will be open until a qualified applicant is identified. The University of Minnesota is an Equal Opportunity Educator and Employer.**

### POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

To examine the mechanism of action of GM-CSF in regulating the growth, differentiation, and malignant transformation of hematopoietic cells. Potential for use of yeast and ES cells. Strong background in molecular/cellular biology is required. Please send curriculum vitae to: **Dr. Andrew S. Kraft, Chief, Division of Medical Oncology, 4200 East 9th Avenue, Denver, CO 80262. FAX: 303-315-5502.**

Two **POSTDOCTORAL POSITIONS.** Position One is to study the mechanisms of transactivation and tumorigenesis by adenovirus E1A. Position Two is to study antiviral targets in Human Kaposi's Sarcoma Herpesvirus replication machinery. Experience in transcription or replication is desirable. See website: <http://biochem.dental.upenn.edu/~robbslab>. Send curriculum vitae and names of three references to: **Dr. Ricciardi, Department of Microbiology, Levy Building, University of Pennsylvania, 4010 Locust Street, Philadelphia, PA 19104. E-mail: ricciardi@biochem.dental.upenn.edu.**



## MAYO CLINIC

Postdoctoral Positions are available immediately to study the biochemical and molecular aspects of breast/ovarian cancer and the roles of tumor suppressor genes p53, BRCA1 and BRCA2. A strong background in molecular and cellular biology is essential. Prior experience in working with mice is preferred. Please send curriculum vitae and the names of three references to:

**Junjie Chen, Ph.D.**  
Department of Oncology  
Guggenheim 13  
Mayo Clinic  
200 First St. SW  
Rochester, MN 55905

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## FELLOWSHIPS

**Georg - August - Universität  
Göttingen**

### **PREDOCTORAL POSITION**

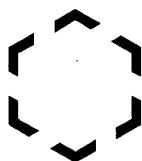
A position for a graduate student (predoctoral training fellowship; BATIL/2 funded by the DFG; starting September 1999) is available to study the neuromodulatory effects of biogenic amines (i.e. octopamine, 5HT, dopamine and others) on identified insect neurons and insect behavior. The project focuses on electrophysiological and pharmacological studies on amine effects on voltage-gated ( $K^+$ ,  $Ca^{2+}$ ) and ligand-gated (ACh) currents in identified insect neurons (J. Exp. Biol. 201, 2529, 1998; Microscopy Res. Tech. 44, 2/3, 137, 1999; <http://www.gwdg.de/~zellbio/>). Previous experience in electrophysiology (intracellular or patch-clamp recordings), immunocytochemistry or cell culture techniques is desirable.

Please send CV with statement of research interests and experience to:

**PD Dr. Michael Hörner**  
([mhoerne@gwdg.de](mailto:mhoerne@gwdg.de)) or  
**Prof. Dr. Friedrich-Wilhelm Schürmann**  
([fschuer@gwdg.de](mailto:fschuer@gwdg.de))  
Institut für Zoologie und  
Anthropologie, Berliner Str.  
28, 37073 Göttingen, FRG



## EUROPEAN OPPORTUNITIES



Rat der  
Eidgenössischen  
Technischen  
Hochschulen  
ETH-Rat

Conseil des  
écoles  
polytechniques  
fédérales  
CEPF

Consiglio  
dei  
politecnici  
federali  
CPF

Board of the  
Swiss Federal  
Institutes of  
Technology  
FIT Board

In spring 2001 the current President of the Board of the Swiss Federal Laboratories for Materials Testing and Research (EMPA) will be retiring. We are therefore looking for a new

## Chief Executive of EMPA

(to succeed Prof. Fritz Eggimann).

EMPA is a technological institution in the FIT domain and, like the Federal Institutes of Technology and the three other research institutes, is governed by the FIT Board. Its current activities centre on applications-oriented research and accredited, neutral materials testing. Its main areas of focus are construction and other materials; environmental technology and analysis; and the safety and quality of buildings, facilities, products and processes. Some 800 employees work at EMPA's three sites in Dübendorf, St. Gallen and Thun for public and private sector customers from Switzerland and abroad. Specialists are engaged on interdisciplinary research & development, testing, consulting and technology transfer in over 30 different fields to ensure the safety of humans and their environment. Agreements with equivalent institutions abroad ensure that EMPA's tests and certificates are recognized in Europe and elsewhere.

The successful applicant will head EMPA and assume a broad scientific, technical and entrepreneurial responsibility. The post can be combined with a teaching position at the Federal Institute of Technology in Zurich or Lausanne.

This demanding post requires an exceptional personality with strong leadership qualities, internationally recognized scientific skills in one of EMPA's specialist fields and the capacity to work closely with business and administrative bodies at an international level. We attach special importance to excellent communications skills and a willingness to implement reforms quickly and precisely.

Please send your written application, backed up by the usual documents, by the end of September 1999 to Dr. Stephan Bieri, CEO and Vice-President of the FIT Board, ETH Zentrum, 8092, Zürich, Switzerland.



## POSITIONS OPEN

### POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study the regulation of pulmonary responses to infectious agents at the Cincinnati Veterans Affairs Medical Center and the University of Cincinnati College of Medicine. This work is supported by an interdisciplinary grant that devotes a major portion of its resources to training young Investigators. Areas of interest include *Pneumocystis carinii*, *Histoplasma capsulatum*, cytokine production, surfactant proteins, and asthma. The Postdoctoral positions are available in the fall of 1999 but specific start dates are flexible. Salary with benefits are up to \$50,000. Applicants must be citizens or permanent residents of the United States. Candidates with a Ph.D. degree may have no more than four years of postdoctoral experience, whereas candidates with an M.D. degree may not be more than two years beyond Residency, or specialty or subspecialty training. Applicants should send a curriculum vitae and the names of three references to: **Peter D. Walzer, M.D., Research Service (151), Cincinnati VA Medical Center and University of Cincinnati, 3200 Vine Street, Cincinnati, OH 45220. Telephone: 513-475-6328; FAX: 513-475-6415; e-mail: peter.walzer@med.va.gov. Equal Opportunity Employer.**

### POSTDOCTORAL RESEARCH ASSISTANT CHEMISTRY AND BIOCHEMISTRY

A Postdoctoral Research Assistant position is available to study the structure of the Na,K-ATPase. Work will focus on determining the three-dimensional organization of transmembrane segments participating in the cation path and binding sites. These studies will use molecular biology (site-directed mutagenesis, eukaryotic and yeast expression systems) together with the protein chemistry and membrane biochemistry techniques. Recent Ph.D. with experience in molecular biology, protein chemistry, enzymes kinetics, or ion transport preferred. Salary commensurate with experience. A generous benefit plan is provided. Send curriculum vitae, names and telephone numbers of three references to: **Dr. Jose Arguello, Worcester Polytechnic Institute, 100 Institute Road, Department of Chemistry and Biochemistry, Worcester, MA 01609. Telephone: 508-831-5326; e-mail: arguello@wpi.edu.**

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### TWO POSTDOCTORAL FELLOW POSITIONS

Two Postdoctoral Fellow positions available September 1, 1999. One position will examine the activation of latent TGF- $\beta$ 1 in the matrix of growth plate chondrocytes as well as TGF- $\beta$ 1-mediated signaling mechanisms. The second position will examine the regulation of growth plate chondrocytes by vitamin D metabolites, including the production of 1,25-(OH) $_2$ D $_3$  and 24,25-(OH) $_2$ D $_3$ , regulation of 24R- and 1 $\alpha$  hydroxylase activities, and signaling mechanisms mediated through the membrane receptor for 1,25-(OH) $_2$ D $_3$ . Both positions require a Ph.D. in biochemistry and/or molecular biology and are renewable for up to three years. Send a current curriculum vitae, names and addresses of three references, and a one-page summary of professional goals to: **Barbara D. Boyan, Ph.D., Department of Orthopaedics, Mail Code 7774, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900.**

**NEUROSCIENTIST POSTDOCTORAL POSITION** to investigate regulation of the nitric oxide-guanylyl cyclase signaling pathway in relation to NO interactions with anesthesia and analgesia mechanisms in the central nervous system. Molecular biology, neuropharmacology, and neurohistochemistry experience required. Please submit your curriculum vitae and three references to: **Roger A. Johns, M.D., Department of Anesthesiology and Critical Care Medicine, Ballock 1415, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-4965. The Johns Hopkins University School of Medicine is an Equal Opportunity Employer.**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSISTANT UNIVERSITY OF SCRANTON Institute of Molecular Biology and Medicine

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Primary duties for this position include applying molecular biology methods for rapid identification of bacteria; develop and test probe-based technology on specific genetic loci.

Minimum requirements for this position include Ph.D. in microbiology or molecular biology with strong publication record. The successful candidate will have expertise and direct experience with techniques such as cloning, library construction and probing, subtractive hybridization, probe development, and genotyping. Relevant laboratory skills might include PCR, DNA sequencing, RNA skills, handling of pathogenic bacteria, and strong writing skills.

Applicants should submit a cover letter, résumé, names of three references by September 3, 1999, to:

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**POSTDOCTORAL POSITIONS** to study steroids and their metabolites as endogenous regulators. Seeking starting Ph.D. Biochemists or Chemists skilled in trace-level analysis, various biochemical assays, mammalian tissue culture, metabolic studies with isotopes, and/or small-animal surgery. Ideal candidates will complement and reinforce our expertise in chromatography, spectral analysis, organic synthesis, and molecular biology. Send résumé to: **S. P. T. Matsuda, Department of Biochemistry and Cell Biology MS 140, Rice University, 6100 Main Street, Houston, TX 77005. E-mail: matsuda@rice.edu; website: http://www.bioc.rice.edu/~billw. Rice University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** are immediately available to study signal transduction, cell cycle regulation, and their relationship to drug-induced apoptosis in leukemia. These positions are NCI/NIH-supported. Applicants with a Ph.D. or M.D. degree and experience in molecular/cell biology are invited to send curriculum vitae and names of three references to: **Dr. Steven Grant, Massey Cancer Center, Medical College of Virginia, P.O. Box 230 MCV Station, Richmond, VA 23298-0230. E-mail: sgrant@hsc.vcu.edu. Equal Opportunity Employer.**

## POSITIONS OPEN

### SENIOR POSTDOCTORAL FELLOW/INSTRUCTOR UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

#### Division of Renal Diseases and Hypertension

A Senior Postdoctoral Fellow/Instructor position is currently available to study signal transduction pathways mediating growth and differentiation of mammalian cells. Projects are currently funded to investigate signal transduction pathways involved in controlling transcription of muscle-specific genes in vascular smooth muscle cells. Separately funded projects are examining the molecular regulation and physiologic role of phospholipase A $_2$  in cancer cells. The applicant will be defining transcriptional factors controlling these genes and use molecular biological approaches to examine upstream signaling pathways regulating these factors. Candidates should have a Ph.D. in cell biology, molecular biology, or related disciplines. A background in signal transduction and/or transcriptional regulation is desirable.

Requirements: Ph.D. required.

Send curriculum vitae, statement of research interests, and names of three references to: **Raphael Nemenoff, Ph.D., Department of Medicine, University of Colorado Health Sciences Center, Campus Box C281, 4200 East 9th Avenue, Denver, CO 80262. E-mail: raphael.nemenoff@uchsc.edu; Telephone: 303-315-6733; FAX: 303-315-4852.**

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### POSTDOCTORAL FELLOWSHIP CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES University of Toronto

A position is available immediately to study the cellular biology of presenilin and ataxia-telangiectasia mutated (ATM) genes in murine models of human disease. Applicants should have a Ph.D. or equivalent degree and significant experience in neuronal culture and molecular biology techniques. A background in gene regulation, cell cycle control, developmental neurobiology, and mechanisms of cell survival is preferred. Replies with curriculum vitae, a description of research experience, and three reference contacts should be sent to: **Dr. Howard T. J. Mount, Centre for Research in Neurodegenerative Diseases, University of Toronto, 6 Queen's Park Crescent West, Toronto, Ontario M5S 3H2 Canada. FAX: 416-978-1878; e-mail: howard.mount@utoronto.ca.**

**POSTDOCTORAL FELLOWSHIPS** on NIH training grant available immediately. The goal is to provide multidisciplinary training in basic neurobiology related to neurological disorders and recovery of function for individuals interested in research careers in these fields. Faculty include **Dr. M. Murray, Dr. I. Fischer, Dr. D. Baird, Dr. G. Bennett, Dr. J. Chapin, Dr. J. DiTunno, Dr. S. Giszter, Dr. R. Palisano, Dr. T. Heiman-Patterson, Dr. R. Saavedra, Dr. K. Simansky, Dr. S. Smith, Dr. S. Westcott, Dr. M. White.** Collaborative and multidisciplinary projects are encouraged. Candidates should be U.S. citizens or permanent residents with M.D., Ph.D., or comparable degree. Send curriculum vitae, statement of research interests, and three references to: **Marion Murray, Department of Neurobiology, MCP Hahnemann University, 3200 Henry Avenue, Philadelphia, PA 19129. E-mail: murray@mcphu.edu. Equal Opportunity Employer.**

### POSTDOCTORAL POSITION

Postdoctoral positions available immediately to work on various funded projects on environmental biotechnology. The candidates must have a Ph.D. in biology, microbiology, or related fields. Experience in molecular biology is essential. Send curriculum vitae and names of three references to: **Prof. Wilfred Chen, Department of Chemical and Environmental Engineering, University of California, Riverside, CA 92521. The University of California, Riverside is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### POSTDOCTORAL OPPORTUNITIES

The University of Kentucky provides competitive postdoctoral salaries and an excellent training environment. Below are representative-funded positions open to qualified applicants. Please provide curriculum vitae, the names of three references, and a statement of research interests to the desired preceptor.

**Daret K. St. Clair, Ph.D.** Redox regulation of gene expression in cancer therapy. E-mail: [dstcl00@pop.uky.edu](mailto:dstcl00@pop.uky.edu).

**Robert Dickson, Ph.D.** Sphingolipid signaling in yeast. FAX: 606-257-8940; e-mail: [bobd@pop.uky.edu](mailto:bobd@pop.uky.edu).

**James R. Herman, M.D., Ph.D.** HSV-tk suicide gene therapy in GU cancer. E-mail: [jherman@pop.uky.edu](mailto:jherman@pop.uky.edu).

**Charlotte Kaetzel, Ph.D.** Gene regulation in the mucosal immune system. E-mail: [cskaet@pop.uky.edu](mailto:cskaet@pop.uky.edu).

**Rebecca Kellum, Ph.D.** Chromosome structure and function. FAX: 606-257-1717; e-mail: [rkellum@pop.uky.edu](mailto:rkellum@pop.uky.edu).

**Carol L. Pickett, Ph.D.** Mechanism of CDT, a toxin that causes G2 arrest. E-mail: [cpicket@pop.uky.edu](mailto:cpicket@pop.uky.edu).

**Vivek M. Rangnekar, Ph.D.** Mechanism of Par-4 function in transformation and apoptosis. E-mail: [vmrang01@pop.uky.edu](mailto:vmrang01@pop.uky.edu).

**Brian C. Rymond, Ph.D.** Mechanism of pre-mRNA splicing. FAX: 606-257-1717; e-mail: [rymond@pop.uky.edu](mailto:rymond@pop.uky.edu).

**Brett Spear, Ph.D.** NF- $\kappa$ B and liver carcinogenesis. FAX: 606-257-8994; e-mail: [bspear@pop.uky.edu](mailto:bspear@pop.uky.edu).

**Zhigang Wang, Ph.D.** Mechanisms of DNA repair and mutagenesis. FAX: 606-323-1059; e-mail: [zwang@pop.uky.edu](mailto:zwang@pop.uky.edu).

Applications are being accepted for an anticipated **POSTDOCTORAL RESEARCH ASSOCIATE** position at the Pacific Northwest National Laboratory. The successful applicant must hold a Ph.D. in plant physiology, plant molecular biology, botany, or a related field. In addition, a successful applicant must have direct experience with monocot transformation systems including the *Agrobacterium* transformation system. In addition, applicants should have at least some exposure to the discovery of genes and associated regulatory elements. Preference will be given to applicants skilled in microarray-based screening of plant genetic material. Applicants should also be highly familiar with biochemical characterization of enzymes and other proteins. Current curricula vitae should be sent to: **Dr. Brian Hooker, Staff Engineering, Bio-processing Group, Pacific Northwest National Laboratory, MSIN K2-10, 902 Battelle Boulevard, Richland, WA 99352 USA.** Alternatively, electronic applications may be sent to e-mail: [brian.hooker@pnl.gov](mailto:brian.hooker@pnl.gov).

**Molecular vascular biology POSTDOCTORAL POSITION** to investigate the basis for vascular cell proliferation, oxidative/hypoxic gene regulation interactions with the nitric oxide-guanylyl cyclase signaling pathway and factors regulating cell growth. Please submit your curriculum vitae and three references to: **Roger A. Johns, M.D., Department of Anesthesiology and Critical Care Medicine, Black 1415, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-4965.** The Johns Hopkins University School of Medicine is an Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are available immediately in University of Maryland, College Park to study (1) the functions of B cell antigen receptor, (2) host immune responses against pathogenic bacteria. A background in cell biology and immunology, and experience with molecular and morphological techniques are preferred but not required. Please send curriculum vitae and names of three references to: **Dr. Wenxia Song, Department of Cell Biology and Molecular Genetics, University of Maryland, College Park, MD 20742.** FAX: 301-314-9489; e-mail: [ws98@umail.umd.edu](mailto:ws98@umail.umd.edu).

## POSITIONS OPEN

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## GLOBAL OPPORTUNITIES

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**Department of Biology:** Applicants sought in the following fields: marine biology with emphasis on ecology; microbiology with interest in basic research or with an environmental perspective (with no clinical orientation).

**Department of Chemistry:** Applicants sought in the following fields: organic chemistry; inorganic chemistry.

All interested applicants may send a letter of application and arrange for three letters of reference addressed to:

**Dean, Faculty of Arts and Sciences  
American University of Beirut  
c/o New York Office  
850 Third Avenue, 18th Floor  
New York, NY 10022-6297**

or

**Dean, Faculty of Arts and Sciences  
American University of Beirut  
Beirut, Lebanon**

Electronic submission may be sent to e-mail: [as\\_dean@aub.edu.lb](mailto:as_dean@aub.edu.lb).

All applications and letters of reference should be received by January 15, 2000.

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## FELLOWSHIPS

**Dystonia FELLOWSHIP.** A two-year Fellowship of \$50,000 per year focusing on genetics, treatments, and studies of torsinA biology related to dystonia is available from: **The Dystonia Medical Research Foundation, One East Wacker Drive, Suite 2430, Chicago, IL 60601.** Telephone: 312-755-0198; FAX: 312-803-0138; e-mail: [dystonia@dystonia-foundation.org](mailto:dystonia@dystonia-foundation.org). Application deadline is December 30, 1999.

## GRANTS

**Dystonia GRANTS.** One-year grants of \$35,000 focusing on genetics, treatments, and studies of torsinA biology related to dystonia are available from: **The Dystonia Medical Research Foundation, One East Wacker Drive, Suite 2430, Chicago, IL 60601.** Telephone: 312-755-0198; FAX: 312-803-0138; e-mail: [dystonia@dystonia-foundation.org](mailto:dystonia@dystonia-foundation.org). Application deadline is December 30, 1999.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to study the molecular basis of different neuroprotection strategies in cerebral hypoxia/ischemia. This NIH-funded position involves study of neurons with patch-clamping, fluorescence microscopy, and intracellular calcium imaging, as well as molecular biology techniques. The position is at University of California at San Francisco, a world-leader in health research. Please send letter of interest, curriculum vitae, and the names of three references to: **Philip Bickler, M.D., Ph.D., Department of Anesthesia, University of California at San Francisco, 513 Parnassus Avenue, San Francisco, CA 94143-0542.** Telephone: 415-476-1411; e-mail: [bicklerp@anesthesia.ucsf.edu](mailto:bicklerp@anesthesia.ucsf.edu).

## EUROPEAN OPPORTUNITIES

**POSTDOCTORAL/PH.D. STUDENTSHIPS** available immediately for Chemists to investigate the mechanisms of biosynthesis of novel eicosanoids from the yeast, and the role of phospholipase A2 therein. Expertise in gas chromatography-mass spectrometry (GC-MS), HPLC, and cell biological techniques is directly required. Contact: **S. Nigam, M.D., Ph.D., Eicosanoid Research Division, Free University Medical Centre Benjamin Franklin, Berlin D-12200 Germany.** E-mail: [nigam@zedat.fu-berlin.de](mailto:nigam@zedat.fu-berlin.de).

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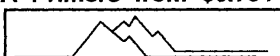
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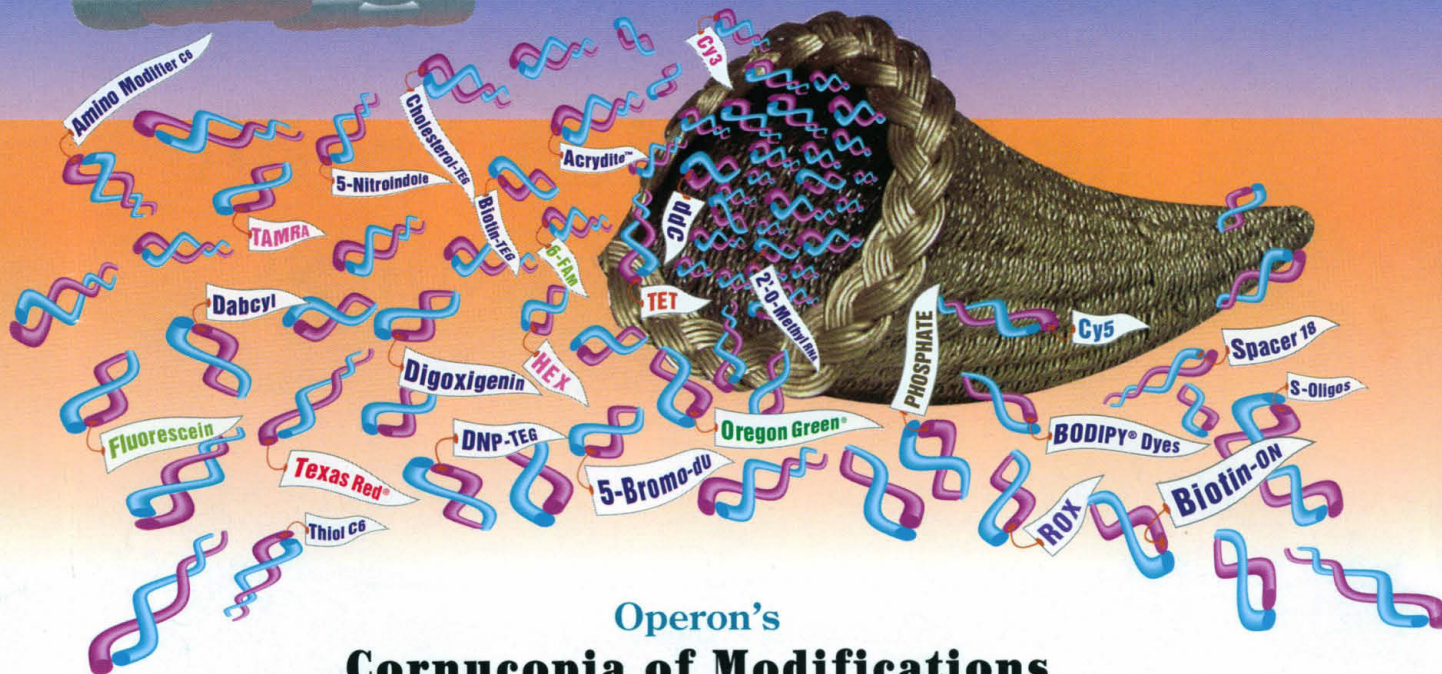
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