

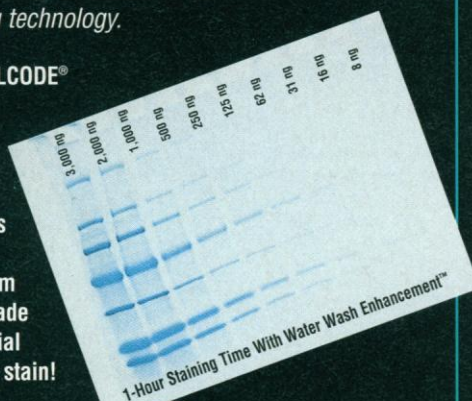
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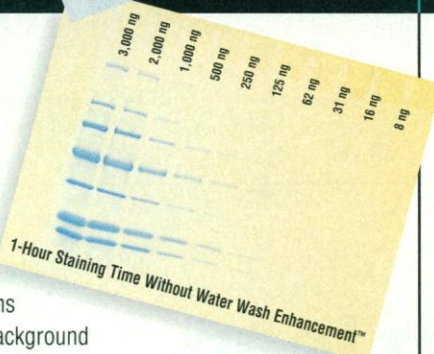
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RFP

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The Consortium for Plasma Science, LLC, requests proposals for the development of a universal approach to inactivate or remove pathogens from human blood plasma without adversely affecting the functionality of the plasma or its derivatives.

SCOPE:

Innovative methods that:

- will eradicate non-enveloped viruses in whole human plasma
- are safe, effective and practical; and
- range from initial technology assessment to advanced methods development.

It is essential the applicant be in a position to convey to the Consortium the rights in resulting research.

BUDGET:

Budget considerations should reflect the intensity of the research program and the anticipated outcomes. Research programs generally will be funded for only one year, with renewal possible upon evaluation of progress to plan and potential for reaching agreed upon milestones.

SOURCE:

The Consortium for Plasma Science, LLC, is a collaborative effort of five major blood fractionation companies: Alpha Therapeutic Corporation; Baxter Healthcare Corporation; Bayer Corporation; Centeon, LLC; and NABI. The Consortium hopes its efforts will stimulate development of new approaches to solving this important problem, ultimately accelerating the emergence of a successful technology.

PROCESS:

Proposals may be submitted at any time, and will be evaluated promptly on technical merit and the business case. To optimize proposal design and success, the first step in the application process is communication with the Consortium Executive Director about non-confidential aspects of the proposal.

CONTACT:

Frederick A. Dombrose, Ph.D.
Executive Director

5925 Carnegie Blvd., Suite 500
Charlotte, NC 28209 U.S.A.

Phone (704) 571-4070, Fax (704) 571-4071

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Original articles should contain computational and/or experimental observations that lead to new insights relevant to microbial pathogenesis. References used for the analysis may include URLs* (<http> and <ftp>) from major sites (e.g., GenBank, SwissProt, etc.).

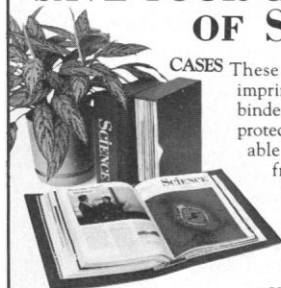
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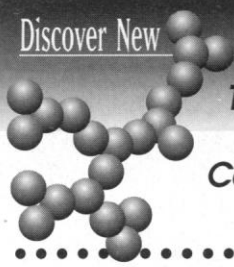


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Wang, X. et al. *Cancer Research*, 54, 4726-28, 1994.
Holzman, D. *Journal of the National Cancer Institute* 88, 396-397, 1996.
Hoffman, R., J. *Cellular biochem*, 56, 1-4, 1994.

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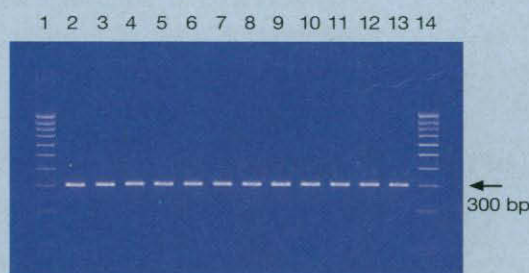
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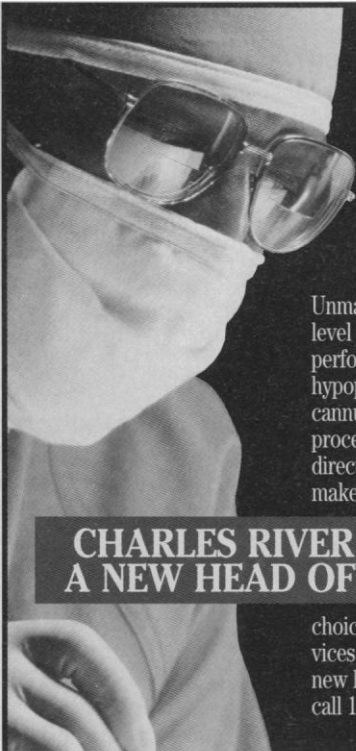
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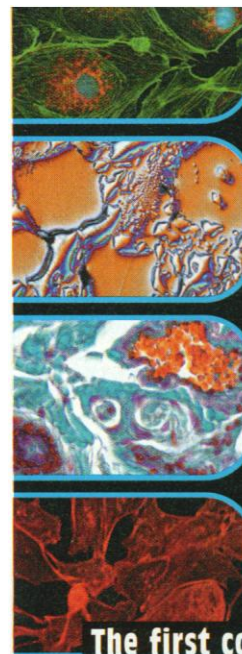
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(continued on page 715)

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(continued from page 713)

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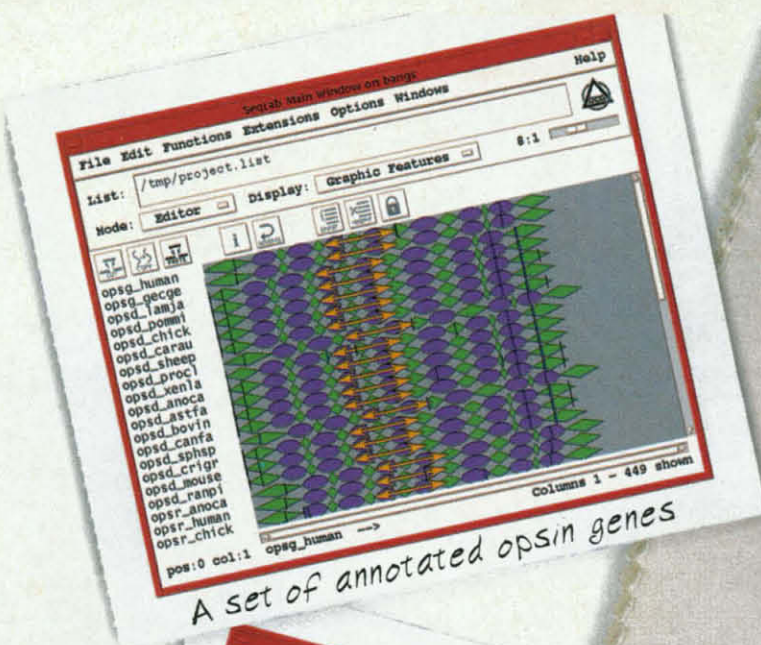
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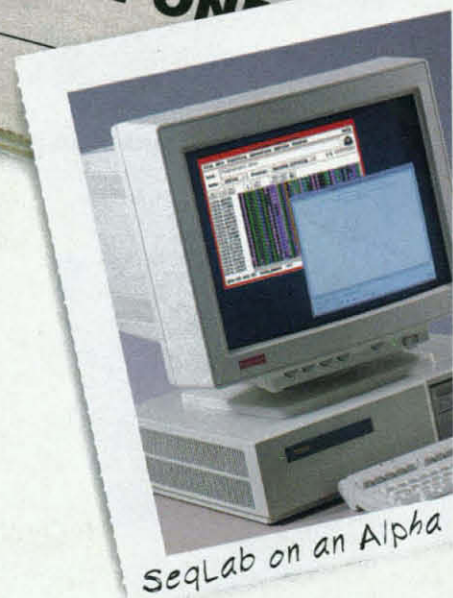


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POSITIONS OPEN

FACULTY POSITIONS (TWO) MOLECULAR/CELL BIOLOGY/ PLANT COMMUNITY ECOLOGY/ ENVIRONMENTAL STUDIES

Keene State College, part of the University System of New Hampshire, is a public undergraduate liberal arts college of 4,000 FTE students. Keene, a pleasant city of 23,000 with many cultural and recreational opportunities, is located in scenic Monadnock Region of south-west New Hampshire, two hours from Boston and the seacoast.

The Department of Biology invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level beginning fall 1998:

Molecular/Cell Biology. Teach undergraduate cell and molecular biology, molecular biology/biotechnology labs, biochemistry, introductory biology, and general education courses; supervise undergraduate research; assist department in developing molecular biology resources. Qualifications: Require Ph.D. completed by February 1, 1998, in biology, molecular biology, cell biology, biochemistry, or related discipline; strong commitment to the liberal arts, teaching, and an integrated biological perspective; good general knowledge of biology; knowledge of a specific group of organisms desirable.

Plant community ecology/environmental studies (joint appointment Biology/Environmental Studies). Teach undergraduate introductory biology, community and ecosystem ecology, introduction to environmental studies, senior seminar in environmental studies, and other courses as appropriate; supervise undergraduate research in plant community or ecosystem ecology (wetland, forest, grassland, or other terrestrial system), and other areas of environmental studies. Ideal candidate should also have some expertise in the taxonomy/systematics of a specific plant group. Ability to teach plant physiology is also an advantage. Qualifications: Require Ph.D. completed by February 1, 1998, in biology, ecology, botany, environmental science, or related discipline; strong commitment to teaching and to liberal arts and interdisciplinary studies; good general knowledge of biology and environmental studies.

Minimum salary for Assistant Professor: \$36,500.

Submit letter of application, curriculum vitae, description of undergraduate teaching experience, statement of teaching philosophy/methods, statement of research interests, and three letters of reference (addressing candidate's teaching experience) by December 15, 1997, to: **Kim Harkness, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604. Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION in molecular neurobiology. The Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology (VCAPP), Washington State University, seeks to fill one or two tenure-track positions. Candidates must have or demonstrate the ability to establish and continue a strong, extramurally funded research program. They must provide service to the department by participating in teaching and departmental and/or college committees. Rank, tenure status, and terms of appointment will depend on qualifications and experience. Candidates must have a Ph.D. or D.V.M.-Ph.D. or equivalent, extensive training and research experience in molecular neurobiology, a minimum of two to three years of postdoctoral training, and evidence of accomplishment in research and teaching. VCAPP has 25 full-time and 47 adjunct faculty and has a strong research focus in sleep research, drug abuse, feeding research, neuroendocrinology, neuroimmunology, animal behavior, and reproduction and in cellular, cardiovascular, and exercise physiology. Courses in anatomy, pharmacology, physiology, toxicology, and neuroscience are offered to undergraduate, veterinary, and graduate students. To apply for position send letter of application which indicates which rank you are applying for (**ASSISTANT, ASSOCIATE, FULL PROFESSOR**), curriculum vitae, list of publications, description of teaching experience, summary of research interest, and the names, addresses, and telephone numbers of three references to: **Search Committee, Department of VCAPP, Washington State University, Pullman, WA 99164-6520** by January 1, 1998. Additional information can be obtained from e-mail: **bmorton@vetmed.wsu.edu**. *WSU is an Equal Opportunity/Affirmative Action Employer. Members of ethnic minorities, women, and persons of disability, Vietnam-era and disabled veterans, and/or persons age 40 and over are encouraged to apply.*

POSITIONS OPEN

MOLECULAR GENETICIST Director of the Center for Molecular Mechanisms of Disease Research

Children's Research Institute (CRI) is a free-standing research institute in Children's National Medical Center, a major academic pediatric medical center affiliated with George Washington University, Washington, D.C. CRI has basic and clinical investigators active in six research centers including molecular virology, cancer cell biology, molecular mechanisms of diseases, applied physiology, neuroscience, and outcomes research. CRI facilities exceed 75,000 square feet, and include well-equipped general research laboratories as well as specialty laboratories such as a stem cell processing facility, a BSL-3 facility, an accredited animal research facility, and facilities for clinical research trials.

CRI invites applications for the position of Director of the Center for Molecular Mechanisms of Disease Research and the recently endowed A. James Clark Chair in molecular genetics. We seek an experienced investigator of human molecular genetics, either in pediatric diseases, differentiation and development, or gene regulation/expression. The successful candidate will be a Ph.D. and/or M.D.; have demonstrated research expertise with a history of high quality, funded research program(s); have the ability to establish a molecular genetics research program with relevance to pediatric diseases; and possess the leadership skills necessary to further develop the Center for Molecular Mechanisms of Diseases and contribute to the Institute's broader goals and collaborations.

The position provides faculty tenure-track in the Department of Pediatrics, George Washington University, at the rank of Associate or Full Professor. A joint appointment in a basic science department at George Washington University Medical School and/or in a CNMC clinical department is anticipated. The position offers a competitive salary and attractive laboratory support. Applicants should send a letter of application, curriculum vitae, one- to three-page summary of current and future research goals and plans to:

Gordon B. Avery, M.D., Ph.D.
Chair, Department of Pediatrics
Chief Academic Officer and COO
Children's Research Institute, CNMC
111 Michigan Avenue N.W.
Washington, DC 20010.

Questions regarding the position should be directed to: **Charles Finney, Administrative Director, CRI: Telephone: 202-884-5652; e-mail: cfinney@cnmc.org.** Drug testing/background investigation conducted. Application deadline: November 15, 1997.

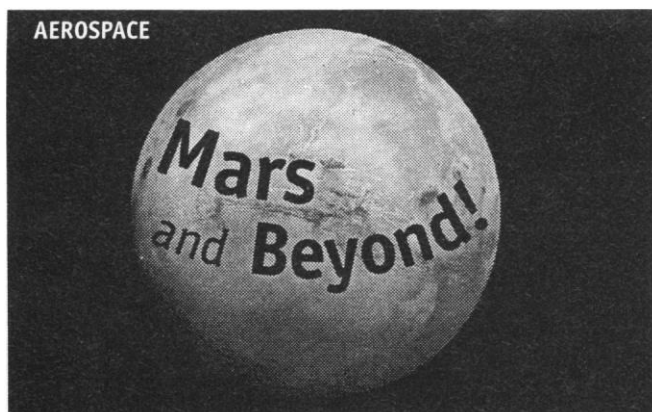
LUNG TRANSPLANTATION

The Lung Transplantation Service in the Division of Pulmonary, Allergy, and Critical Care at Columbia University is seeking candidates for the position of **ASSISTANT** or **ASSOCIATE PROFESSOR** with a strong interest in the biology of lung transplantation. Candidates should be able to establish an independent research group studying either the basic immunology of lung transplantation or clinical research related to the immunology of lung transplantation. Investigators studying bronchiolitis obliterans are particularly encouraged. Applicants should hold an M.D. or Ph.D. Submit a curriculum vitae, three letters of reference, and a brief summary of research interests to: **Paul Rothman, M.D., Chief, Division of Pulmonary, Allergy, and Critical Care, College of Physicians and Surgeons, Vanderbilt Clinic 12-213, 630 West 168th Street, New York, NY 10032.**

ASSISTANT PROFESSOR TENURE-TRACK

The University of Illinois College of Medicine at Rockford seeks to add a tenure-track Assistant Professor to its diversified Department of Biomedical Sciences. The emphasis will be on research. The specific research area is open, although it is expected to involve studies at the molecular level. Contribution to the virology section of a team-taught course in medical microbiology is expected. Submit curriculum vitae, a short statement of research interests, and the names and addresses of three references to: **Dr. Fu-Li Yu, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107-1897.** Applications will be reviewed starting December 1, 1997. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

AEROSPACE



NASA Ames Research Center is seeking bold and creative leadership for the following positions:

Chief of the Numerical Aerospace Simulation Division

(reference vacancy 97-PMR-907)

&

Chief of the Computational Sciences Division

(reference vacancy 97-PMR-908)

Located in the San Francisco Bay Area, Ames Research Center is NASA's Center of Excellence in Information Technology. It is surrounded by the "Silicon Valley's" leading computer science and information technology companies, as well as outstanding universities.

The Numerical Aerospace Simulation Division is a leader in research and development in advanced computer systems, data visualization, networks, and microdevice modeling.

The Computational Sciences Division develops advanced computationally-based solutions to the challenges arising from NASA's unique missions in space exploration and aeronautics.

Both of these highly important positions are part of the government's Senior Executive Service (SES). The salary range is \$107,340 to \$123,100 and will depend in part upon individual qualifications. The ideal applicant would hold a Ph.D. in Computer Science and have a substantial record of creative and productive research as well as experience in the management and administration of research and technology.

To apply for either of these positions, contact the Human Resources Division at (650) 604-5776, or visit the Human Resources Division homepage at www.huminfo.arc.nasa.gov.

Further information on the Numerical Aerospace Simulation Division can be found at www.nas.nasa.gov

Further information on the Computational Sciences Division can be found at www.nas.nasa.gov/lc/index.html

All responses must be received by 12/24/97.

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Post-Doctoral Fellow Mouse Genomics Program

Located in the San Francisco Bay Area, **Onyx Pharmaceuticals** is a dynamic young company dedicated to the development of novel therapeutics for cancer and other diseases associated with abnormal cell growth. Our continued growth & success has created an excellent opportunity for an experienced Scientist to join our growing multi-disciplinary team.

We have an opening within this newly established group focused on a new genomic screening project to search for genes involved in vascular biology/disease. Ideal candidates will have a Ph.D. in molecular genetics, cancer biology or a related topic and demonstrated expertise in molecular biology techniques. Knowledge of gene mapping and bioinformatics, positional cloning, library construction, or other techniques required for the identification of mouse modifier loci would be an advantage.

Our current scientific team is a highly motivated group with a strong interest in creating a world-class pharmaceutical company. A highly interactive atmosphere prevails, where publications and open discussions are encouraged. To apply, please send/fax resume and a list of references to: **ONYX Pharmaceuticals, (Attn: Job# 97S-36-HN), 3031 Research Drive, Richmond, CA 94806-5206. Fax: (510) 222-9758 or Email to: denise@onyx-pharm.com.** Equal Opportunity Employer.

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P H A R M A C E U T I C A L S

HUMAN GENETICS DIVISION CHIEF

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE



Washington University School of Medicine, seeking to build upon its established strengths in basic and clinical genetics and human genome research, has committed substantial resources to establish a new **Division of Human Genetics** within the **Department of Genetics**.

An outstanding Geneticist (Associate Professor or Professor) is being sought to head the Division and recruit three additional faculty members. The Division members will enjoy interactions in a collegial atmosphere with a diverse community of geneticists in several academic departments, including clinical geneticists, quantitative geneticists, population geneticists, genetic epidemiologists, geneticists studying fundamental processes in model organisms, and with faculty at the world-renowned Washington University Genome Sequencing Center.

The Division Chief we are seeking will have an outstanding record of accomplishment, and the desire and ability to play a leadership role in human genetics research and education at the University. Interested and qualified individuals are encouraged to send their curriculum vitae to the address below. Review of applications will begin Nov. 15, 1997. (Preliminary inquiries can be sent to apply@genetics.wustl.edu) **Dr. Robert Waterston, Division of Genetics Search Committee, Department of Genetics Box 8232, Washington University School of Medicine, 4566 Scott Ave., St. Louis, MO 63110**

Exceptional Opportunities in Cheminformatics

At SmithKline Beecham the application of combinatorial chemistry and high-throughput screening is resulting in an extraordinary increase in the numbers of compounds and corresponding data being generated for drug discovery. We are expanding our transnational Cheminformatics group to work closely with medicinal chemists and screening scientists in the UK and US in the collection, transfer, manipulation and exploitation of these data.

This expansion opens opportunities for careers which can be based at either our US or UK state-of-the-art facilities in the following areas:

- Medicinal Cheminformatics - developing a Medicinal Chemistry information system to meet the demands of combinatorial and automated chemistry; developing new methods to analyse molecular diversity.
- Screening Informatics - developing methods for dynamic design of efficient screens; developing sophisticated statistical analysis and data fitting; data interfaces to new screening technologies.
- Knowledge Discovery in Databases - developing and applying computational tools to find relationships within and among large chemical and biological databases.
- Intelligent Data Integration - designing and developing systems for model-based integration and presentation of chemical and biological data.

Specific opportunities exist for the following positions:

Group Leader - Screening Informatics

Requirements include a PhD in biological sciences or chemistry with at least 5 years' directly related experience in information analysis, high-throughput screening or laboratory automation, and a record of successful performance in pharmaceutical discovery or biomedical research. **Refer to Job Code H7-0344.**

Group Leader - Knowledge Discovery

Requirements include a PhD in physical, biological or computer sciences or statistics, with at least 5 years' experience in pattern recognition, machine learning or chemometrics and a proven record of performance in chemical or biological database analysis. **Refer to Job Code H7-0244.**

Group Leader - Data Integration

Requirements include a PhD in chemical or biological sciences, plus a broad understanding of computer technology and at least 5 years' relevant experience with a record of success in computational applications to chemistry and biology. **Refer to Job Code H7-0273.**

PhD Scientist - Medicinal Cheminformatics

Requirements include a PhD or equivalent experience in chemistry or a related discipline plus significant experience providing computer support within a scientific environment or extensive experience in the use of chemistry software packages and databases. The position entails ensuring efficient selection and use of computer tools, development and implementation of a training strategy for Cheminformatics and Medicinal Chemistry applications, and working with multi-disciplinary groups to identify and evaluate new applications. This position is US-based. **Refer to Job Code H7-0318.**

As part of our commitment to attract and retain the best, SmithKline Beecham provides a fully competitive salary/benefits/relocation package. To be considered for one of these outstanding opportunities, mail or e-mail your resume or CV, indicating desired Job Code, to the address below. Indicating Job Code is essential. For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.

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PH.D. PLANT METABOLIC BIOCHEMIST/PHYSIOLOGIST

Monsanto is looking for a Ph.D. Plant Biochemist/Physiologist with extensive experience in plant metabolic biochemistry to conduct discovery-based research in metabolic engineering of plants. Our goals are to utilize the biochemical potential in plants to produce novel and commercially valuable products in a more sustainable manner than existing practices. The successful candidate will be part of a multidisciplinary team that includes molecular biologists, microbiologists, geneticists, biochemists and analytical chemists, and will be instrumental in designing transgenic plants as the factories of the future. Specific responsibilities include design and implementation of experiments to monitor key metabolites and their flux during plant development, and isolation and characterization of enzymes critical to establishing the designed pathway in plants. The candidate should generally have experience using a broad range of biochemical tools such as HPLC, GC-MS, LC-MS, NMR, IR, and UV-VIS spectroscopy. Experience in recombinant DNA technologies is helpful, but not an absolute requirement. The successful candidate should have strong computer/data analysis skills as well as the ability to effectively communicate to people internal and external to the company.

We require a Ph.D. and postdoctoral or industrial experience in Plant Biochemistry or Physiology. Additional expertise in enzymology and protein biochemistry are definite pluses.

Please send your resume and three references to: **AG Staffing, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167. Mail Code: C3SH, Job #: SC110/24-PMB. Fax: (314)694-3038. Or e-mail: ag.hr@monsanto.com.**

PH.D. PLANT BIOLOGY/AGROBACTERIUM

The Agracetus Campus of the Monsanto Company is expanding its Madison, Wisconsin-based programs in soybean transformation. As a member of our research team, you will lead efforts to understand, manipulate and advance current knowledge of Agrobacterium-mediated soybean transformation. You will be expected to contribute significantly to assigned teams and foster ongoing relationships with colleagues at universities.

We are currently seeking a Ph.D. qualified candidate in one of the major plant biology disciplines with solid postdoctoral experience. A strong background in Agrobacterium/host plant interactions is essential. Experience with crop transformation is desirable. Must have excellent communication skills and possess the ability to work in a team based environment.

Please send your resume and three references to: **Agracetus Campus, Monsanto Life Sciences Company, Attn: A. Kersten, 8520 University Green, Middletown, WI 53562. Fax: (608) 836-9710 or e-mail: ajkers@monsanto.com**

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Cell Genesys is dedicated to building the leading gene therapy company which commercializes products for the treatment of serious diseases. We are equally committed to those who make up our team and provide our employees with excellent salaries and a full benefits package. To learn more, please forward your CV/resume/written inquiries to: **CELL GENESYS, INC., Attention: Human Resources, 342 Lakeside Drive, Foster City, CA 94404. FAX: (650) 349-4785. Or e-mail your resume to HR@cellgenesys.com.** We are an equal opportunity employer.



CELL GENESYS



Yale UNIVERSITY

FULL PROFESSOR IN ECOLOGY

The recently formed **Department of Ecology and Evolutionary Biology at Yale University** seeks to recruit an ecologist at the rank of Full Professor and we invite **applications and nominations** for this new position. Individuals working in any subdiscipline will be considered. Most important criteria in evaluation will be innovative research, leadership qualities, and excellence in teaching. We anticipate further appointments in ecology and the senior ecologist is expected to play a lead role in building strength in this field. Interested candidates should submit a CV including list of publications, a cover letter indicating direction of research, and the names and addresses of four potential evaluators. Both applications and nominations should be sent to:

**Chair, Ecologist Search Committee
Department of Ecology and Evolutionary Biology
Yale University, New Haven, CT 06520-8106**

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Common wisdom says that blue sky thinking never amounts to anything and is only for people with their heads in the clouds.

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If your work in biotechnology has led you to dream about what the next wave of biotechnology should be, do, and look like, we have a number of exciting career opportunities ready and waiting to help you transform that vision into reality.



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SENIOR RESEARCH SCIENTIST (Job Posting 97-128)

Duties include managing program in fermentation process improvement and biocatalyst harvest and stabilization; investigating physiology of biocatalyst under production conditions and determining impact on various aspects of desulfurization process; participating in multi-disciplinary biocatalyst improvement team; coordinating experimental and pilot scale biocatalyst production and assisting in building strategy for commercial production.

Requirements of this position include a Ph.D. Microbiologist or Biochemical Engineering degree with 5+ years postdoctoral experience. Must have experience with wide range of microorganisms including recombinant strains as well as proven skills in directing research programs; proven leadership and communication skills and experience with microbial physiology and fermentation scale-up; and must be capable of participating in multi-disciplinary teams consisting of molecular biologists, biochemists, and chemical engineers. Experience with biotransformations helpful.

RESEARCH SCIENTIST (Job Posting 97-129)

Duties include studying physiology of microbial desulfurization in natural and recombinant strains especially with regard to energy flow through desulfurization pathway and interfacing with molecular biologists, biochemists and process development engineers to develop improved desulfurization biocatalysts and processes.

Requirements of this position include Ph.D. Microbial Physiologist with 2-5 years postdoctoral experience. Must have experience with wide range of microorganisms including recombinant strains as well as proven skills in conducting an independent research program and must be capable of participating in multi-disciplinary teams consisting of molecular biologists, biochemists, and chemical engineers. Experience with fermentation, biotransformations and pathway engineering helpful.

RESEARCH ASSOCIATE (Job Posting 97-125-2)

Duties include executing detailed experiments designed to improve stability of biocatalytic activity and characterizing performance of new bacterial strains; preparing experimental plans to satisfy research objectives; making contributions to multi-disciplinary efforts necessary for commercialization of biodesulfurization technology; maintaining laboratory equipment including assembly, calibration and repair; identifying equipment vendors; evaluating claims, and ordering supplies for laboratory operations.

Requirements include a bachelors degree in microbiology or related discipline with 3+ years of experience in a research environment and a working knowledge and experience in microbiology and/or fermentation. Mechanical skills are essential. Candidates must have a demonstrated ability to interact with multi-disciplinary groups and be able to obtain and communicate results in a timely manner. We offer excellent benefits and salary commensurate with experience.

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DNAX Research Institute, located near Stanford University, carries out research in a variety of areas of molecular and cellular biology with an emphasis on immunology, hemopoiesis and oncology.

A postdoctoral position is immediately available in the laboratory of Dr. Ronald Herbst to investigate the function and regulation of protein tyrosine phosphatases. Candidates should have a solid background in molecular biology or biochemistry. Experience in cell biology and signal transduction is strongly preferred.

Qualified applicants should send a curriculum vitae, statement of research interests, two recent reprints, and the names and phone numbers of three references to: Human Resources Department, DNAX Research Institute, 901 California Avenue, Palo Alto, CA 94304. DNAX is an equal opportunity employer, m/f/d/v.

DNAX Research Institute



**Research Assistant Position
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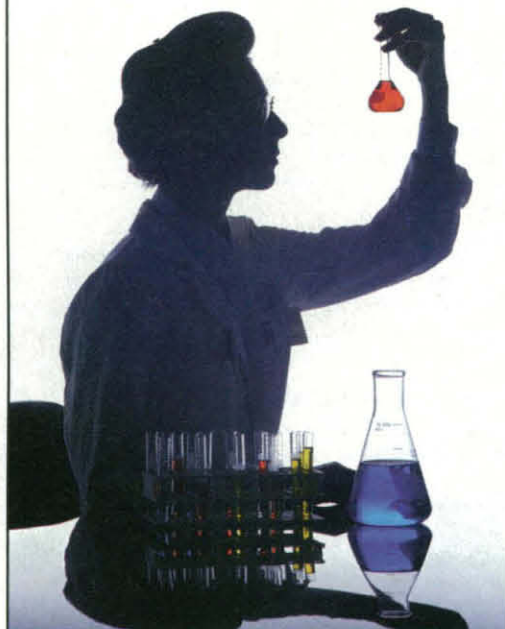
Postdoctoral position available immediately to study exfoliated stool markers for colorectal neoplasia and to assist in assay development. Expertise in immunochemical technique and cell biology required. Please submit curriculum vitae and three letters of recommendation to:

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WORLD LEADERSHIP IN PHARMACEUTICALS



Hoechst Marion Roussel's Biotechnology Group is expanding its US activities in Gene Expression, Transgenics, and Bioinformatics in order to rapidly identify and validate novel gene targets for use in its drug discovery programs. The Biotechnology Group's focus is to integrate novel gene and protein therapeutic targets into the drug discovery activities of the Hoechst Marion Roussel research in coordination with the **Hoechst-Ariad Genomics Center** in Cambridge, Massachusetts and **The Center for Applied Genomics** in Munich, Germany. As a result, we are actively seeking individuals with excellent leadership, communication and teamworking skills to fill the following positions:

Gene Expression

Protein Biochemist/Protein Expression Scientist

A Ph.D. in Biochemistry with a minimum of 3 years postdoctoral experience and demonstrated expertise in the characterization and purification of a variety of proteins is required. The qualified individual will lead efforts directed at converting novel proteins into drug discovery targets. Demonstrated expertise with a variety of protein purification and characterization techniques including ion exchange, size exclusion, reverse phase, affinity chromatography, IEF, western blotting and the use of FPLC and HPLC systems is essential. In addition a strong background in bench scale fermentation of bacteria, baculovirus, yeast and mammalian cells, as well as a demonstrated background in molecular biology is desired.

Molecular Biologist/Protein Expression Scientist

A BS/MS scientist with a minimum of 4 years experience in protein expression is desired. The qualified individual will clone and express novel proteins in support of our drug discovery programs. Experience with recombinant DNA techniques, bacterial, yeast and/or insect cell expression and protein analysis is required. Previous industrial experience is desirable.

Molecular Biologist/Genomics Scientist

A Ph.D. Molecular Biologist with a minimum of 5 years postdoctoral experience in the cloning and characterization of novel cDNAs is desired. Demonstrated expertise with differential gene expression technologies, hybridization and expression cloning, construction of normalized and subtracted cDNA libraries, as well as standard molecular biology techniques is required. Previous experience with the application of automated methods for cDNA cloning is highly desirable.

Molecular Biologist/Genomics Scientist

A Ph.D. Molecular and Cell Biologist with a minimum of 3 years postdoctoral experience in the characterization of gene expression patterns is required. Demonstrated expertise with in situ hybridization, in situ PCR, quantitative PCR, and immunocytochemical methods used to characterize mRNA and protein expression levels from mammalian tissue sources is essential. A strong background in molecular and cell biology with experience in cDNA cloning, Southern, Northern and Western blotting is desired. Previous experience with the simultaneous characterization of gene expression pattern for multiple transcripts and the use of chip based methods to study gene expression is highly desirable.

Molecular Biologist/Genomics Scientist

There are two positions open for MS Molecular Biologists with 3-5 years experience in the cloning, expression and characterization of novel genes. Demonstrated expertise in a variety of molecular techniques including expression cloning, cDNA library screening, phage display, library construction, sequencing, RT-PCR, cell culture and Southern, Western, and Northern blotting is essential. Previous experience with differential gene expression technologies (library subtraction and normalization, and gene chip technologies) is highly desirable.

Transgenic Core

Research Associate - M.S./B.S.

The HMR transgenic core has an opening for a research associate experienced in the generation of animal models using transgenic technology. We are seeking an individual with demonstrated knowledge and background in the construction of transgene vectors, microinjection of embryos, and genotypic analysis of transgenic lines. Diverse experience in transgenic model generation from DNA cloning to model analysis plus knowledge of ES cell technology highly desired. The position will have the primary responsibility of developing transgenic models from the initial transgene construction stage through breeding for phenotypic analysis. Good communication skills and team effectiveness are critical talents in relating model updates to project teams and collaborators plus interacting with the VAF barrier colony staff in the development and analysis of transgenic models.

Bioinformatics

Bioinformatics Scientist

A Ph.D. in Bioinformatics, Biostatistics, Computational Biology or recognized equivalent field with experience in evaluating and implementing novel algorithms for DNA, genomic and protein analysis including skills in statistical analysis and differential gene expression studies required. Software development and integration skills in a Unix computing environment is essential. This position is responsible for the conception, design and performance of experiments in bioinformatics to assist in the discovery of new therapeutic approaches. The selected individual will integrate bioinformatics technologies and skills into the biotechnology efforts of the company and external alliances, advise in the identification and validation of targets, and, apply fundamental or specialized knowledge of sciences to the development of research programs.

Join a company where your individual contributions are recognized and acknowledged. These positions, located in our modern complex in a pleasant suburban setting, provide a competitive salary with a flexible benefits program, a company Performance Sharing Plan and immediate participation in 401(k) Savings and Retirement Plans. For consideration, mail your resume (suitable for scanning) with salary history/requirements, indicating position of interest, to: **Staffing Manager, D103-H, Ref# 1997BW0017, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, or e-mail: jobs@hmri.com**. For additional company information, we invite you to visit our website: www.hmri.com. An affirmative action employer M/F/D/V.

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E-mail: mailback@bwfund.org

BIOMEDICAL
FUNDING OPPORTUNITIES

AWARDS IN MOLECULAR PARASITOLOGY

Awards support scientists who will move modern molecular techniques into the study of parasites and whose work will extend parasitology research in new directions. Scholar Awards provide \$400,000 over five years and New Investigator Awards provide \$195,000 over three years. Candidates must have an M.D. or Ph.D. and hold a tenure-track faculty appointment or its equivalent.

NEW INITIATIVES IN MALARIA RESEARCH

BWF offers two types of awards. One type, which provides \$100,000 over two years, supports either feasibility studies and pilot work that will underpin higher-risk projects in malaria or scientists from other fields who are reorienting their research to malaria. The second type, which provides up to \$400,000 over four years, supports longer-term studies, including field work, that bring new ways of thinking and new experimental approaches to malaria research. Candidates must have an M.D. or Ph.D. and hold a tenure-track faculty appointment or its equivalent.

AWARDS IN MOLECULAR PATHOGENIC MYCOLOGY

Awards support scientists who will bring new ways of thinking and new experimental approaches to the study of virulent fungal pathogens. Open to scientists already working in mycology as well as those from other fields. Scholar Awards provide \$400,000 over five years and New Investigator Awards provide \$195,000 over three years. Candidates must have an M.D. or Ph.D. and hold a tenure-track faculty appointment or its equivalent.

BWF is an independent private foundation established to advance the medical sciences by supporting research and other scientific and educational activities.

Program information is available on BWF's website at <http://www.bwfund.org>



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

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION SIGNAL TRANSDUCTION BY NEUROPEPTIDE RECEPTORS

A National Cancer Institute-funded postdoctoral position is available to participate in studies on signal transduction pathways activated by G protein-coupled neuropeptide receptors in brain tumors. The role of substance P and bombesin-like neuropeptide receptors in enhancing the growth of brain tumor-derived cells is being investigated using biochemical, pharmacological, and molecular approaches (see: *Cancer Research* 56: 4983-4991, 1996; *Cellular Pharmacology* 3: 441-449, 1996; *Molecular and Cellular Endocrinology* 130: 119-130, 1997; *International Journal of Oncology* 11: 797-805, 1997). Candidates should have a strong research experience and a recent Ph.D. in Molecular Biology, Cell Biology, Neuroscience, or related fields. Interest in signal transduction and brain tumor biology is a plus.

St. Jude Children's Research Hospital (Danny Thomas, Founder) is an outstanding research center for biomedical research and provides an exceptional environment for scientific achievement and career development. Stipend and benefits are highly competitive. Send a summary of research accomplishments (including copies of publications), curriculum vitae, and three letters of reference to: M. Sharif, Ph.D., Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105.

Last date for receiving applications is three weeks after the appearance of this advertisement.

An Equal Opportunity/Affirmative Action Employer

PENN
UNIVERSITY OF PENNSYLVANIA

BIOINFORMATICS/COMPUTATIONAL BIOLOGY

The newly established Center for Bioinformatics at the University of Pennsylvania seeks outstanding candidates at all levels for tenure-track faculty positions in bioinformatics and computational biology. Applicants should have demonstrated qualifications in any area of computational biology, including computational genomics, and a commitment to working in a strong interdisciplinary environment involving biologists, computer scientists, mathematicians and statisticians. Successful applicants will participate in an ongoing, dynamic training program in computational biology/bioinformatics at the post-graduate, graduate, masters, and undergraduate levels. Successful candidates will be appointed in a department within the School of Medicine with secondary appointments in other departments (e.g. Computer and Information Science) as appropriate. Applicants should send a full CV, names and addresses of three references, and a statement of research interests to:



**Chair, Search Committee
Center for Bioinformatics
University of Pennsylvania
418 Guardian Dr., Rm. 1313
Phila., Pa 19104-6021**

For additional information, see:
<http://www.pcbi.upenn.edu>

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

COMBINING HIGH TECH AND BIOTECH:

Moving Drug Discovery Technology Into The 21st Century.

Assay miniaturization. Faster compound screening. Focused on fluorescent assay technologies and an ultra-high throughput screening system designed to allow assay miniaturization, Aurora Biosciences Corporation is preparing to take full advantage of the vast opportunities being created by advances in genomics and combinatorial chemistry. These are the technological issues we're addressing at Aurora. In collaborations with companies such as Bristol-Myers Squibb, Eli Lilly and Warner-Lambert, we are moving drug discovery technology into the new millennium, creating hope for millions and opportunities for a select few.

GROUP LEADER, BIOCHEMICAL PHARMACOLOGY

Build and lead a new group of Ph.D. and M.S. scientists. Requires a Ph.D., 5+ years' postdoctoral experience in receptor-ligand studies, enzymatic analysis and pharmacology within an industrial environment. Knowledge of screen development and high-throughput screening as well as previous supervisory experience essential.

SENIOR SCIENTIST, BIOCHEMICAL PHARMACOLOGY

Develop novel technologies and assay for analyzing receptor function. Requires a Ph.D. in Biochemistry or Pharmacology and 3+ years' postdoctoral experience in receptor biology. Industrial experience preferred.

SENIOR SCIENTIST, BIOCHEMISTRY/ENZYMOLGY

Position involves adapting fluorescent technologies for screening of enzymatic targets. Requires a Ph.D. in Biochemistry and 3+ years' postdoctoral experience in enzymology. Industrial experience preferred.

SENIOR SCIENTIST, MOLECULAR CELL BIOLOGY

Requires a Ph.D. in Molecular Biology and 3+ years' postdoctoral experience in cloning, expression and creation of mammalian cell lines. A broad-based understanding of molecular biology and cell signaling pathways also necessary. Industrial experience preferred.

SENIOR SCIENTIST, MOLECULAR BIOLOGY & GENOMICS

Develop genetic screens in mammalian cells allowing for functional analysis of the genome leading to potential new drug targets. Requires a Ph.D., M.D. or equivalent and 4+ years' extensive post-doctoral experience in molecular cloning and library construction and screening as well as identifying expressed genes. Industrial experience preferred.

SENIOR RESEARCH ASSOCIATE, MOLECULAR BIOLOGY

Responsible for conducting experiments using molecular and cellular biology techniques. Requires a BS/MS in Biology or Molecular Biology and 4+ years' experience as a Research Associate. Demonstrated experience with molecular biology techniques including cloning, membrane hybridizations, transfections, cell culture, and viral vector technology essential. Must be able to work independently as well as organize, analyze and communicate data results.

SENIOR RESEARCH ASSOCIATE, COMPOUND ACQUISITION AND SUPPLY

Manage the storage, tracking and distribution of the company's growing compound collection. Requires a BS/MS, 3+ years' experience in working in a high-throughput screening environment and a familiarity with state of the art screening robotics and software programs.

RESEARCH ASSOCIATE, CHEMISTRY

Responsible for synthesis and Q.C. of novel fluorescent molecules for analysis of cell signaling. Requires a BS/MS in Chemistry, excellent organic synthesis skills and experience in chemical analysis by HPLC, NMR and MS.

ASSOCIATE DIRECTOR, SOFTWARE DEVELOPMENT

Responsible for database management, GUI implementation, real-time control and bio-& chemo-informatics. Requires an MSCS or equivalent, (Ph.D. preferred), and 7+ years' related experience. Manages team of developers creating client/server applications with Oracle 7 (including tools) and data communications (SQL * net over TCP/IP). Hands-on experience with Visual C++, Windows NT and UNIX workstations is necessary.

SOFTWARE DEVELOPER

Develop and implement efficient routing and scheduling algorithms in Scientist Interface programming with ultra high throughput screening systems; provide software tools to maximize screening system efficiency; and develop procedures and programs for high throughput screening. Requires a BSCS; knowledge of linear programming, queuing theory, and statistical control techniques, as well as proficiency in programming in C++ and UNIX or Microsoft Class Libraries.

INTERNET SOFTWARE DEVELOPER

Develop web-enabled applications using Oracle host database and HTML/VRML clients. Requires experience in graphical user interface design (GUI) including full understanding of human interface elements; understanding of principles of scientific instruments and scientific processes; capability of programming in 3 G's; and strong knowledge of markup languages, Oracle Web Server, Web Objects, Microsoft Information Server and Netscape server products.

GRAPHICS SOFTWARE DEVELOPER

Develop data visualization tools for mining large datasets and complete statistical analysis. Requires a BSCS (graduate degree preferred); familiarity with database design including large relational databases such as Oracle; and the ability to use C++ and visualization toolkits, such as Silicon Graphics MineSet. In addition, strong developmental understanding of graphics libraries, specifically in IRIX and Microsoft environments and the ability to develop multidimensional visualization algorithms required. Exposure to artificial intelligence techniques and statistical analysis also necessary.

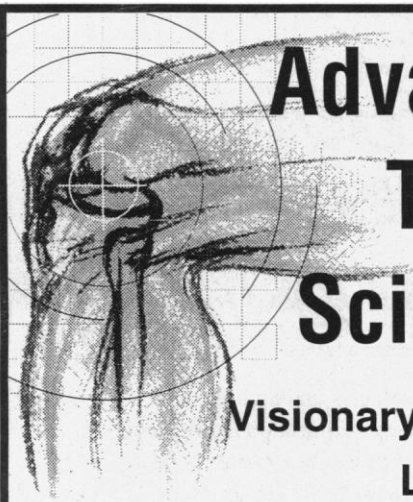
INTEGRATION/AUTOMATION ENGINEER

Lead team of up to 5 individuals to develop cross discipline subsystems in the field of biotechnology automation. Requires a BSEE or related degree and familiarity with the following technologies: Electrical Engineering, Manufacturing, Automation, CIM, Process Control, Robotics, and Computer Control Systems. A strong understanding of systems engineering and the ability to program in C++ or an equivalent language essential.

Aurora offers a competitive salary and benefits package and good equity participation including an ISO and Stock Purchase Program. Please send your resume and cover letter, referencing job title, to: Human Resources, Aurora Biosciences Corporation, 11010 Torreyana Road, San Diego, CA 92121, Fax: (619) 452-5889 or E-mail: Kellyj@aurorabio.com For more information: www.aurorabio.com EOE.

The logo for Aurora Biosciences Corporation features the word "Aurora" in a large, bold, sans-serif font. The letter "o" is replaced by a stylized graphic of a glowing sphere or cell, with a blue outer ring and a yellow-orange center. Below "Aurora" is the text "Biosciences Corporation" in a smaller, bold, sans-serif font.

Aurora
Biosciences Corporation



Advanced Tissue Sciences

Visionary Research Leading To Exceptional Results

Advanced Tissue Sciences, Inc. is a tissue engineering company using our proprietary core technology to develop and manufacture completely human tissue products for tissue repair and transplantation. We are focusing on the worldwide commercialization of skin, cartilage and cardiovascular products. With the recent FDA approval of Dermagraft-TC™, Advanced Tissue Sciences is the first company to have a human-based product approved in the U.S. We are currently looking for talented professionals to join the research team at our headquarters in La Jolla, California. The Cardiovascular Research team was recently awarded a multi-million dollar grant by the U.S. Commerce Department's Advanced Technology Program as part of a newly established program in tissue engineering.

DIRECTOR, CARDIOVASCULAR RESEARCH, TISSUE ENGINEERING

You will lead a multi-disciplinary team of PhD, MS, and BS personnel in the development of cardiovascular tissue engineering, with a focus on blood vessels. Responsible for providing leadership in scientific ideas; developing and executing research plans; preparing and managing time lines and budgets; supervising team personnel; interacting with Department of Product Development; publishing and presenting research findings. Qualified candidate will have a PhD in Molecular or Cellular Biology or Bioengineering and 8+ years' post-doctoral experience in cardiovascular research. Must have proven leadership abilities and research success. A team player with excellent written and verbal communication skills is essential. Publication and presentation of research at national and international meetings is required.

DIRECTOR, MUSCULOSKELETAL RESEARCH, TISSUE ENGINEERING

You will lead and extend research programs involving tissue engineering of cartilage and meniscus into other soft and hard tissues. Responsibilities include overseeing management of several research groups; designing, executing, and interpreting all studies performed by different teams within the program; coordinating efforts with the extramural research program. Qualified candidate will have a PhD in Molecular or Cellular Biology or Bioengineering and 8+ years' post-doctoral experience in musculoskeletal research. Must have proven leadership abilities and extensive research experience and success in musculoskeletal research with demonstrated productivity. A team player with excellent written and verbal communication skills is essential. Publication and presentation of research at national and international meetings is required.

We believe a successful, inspired company is the result of a diverse work force. At Advanced Tissue Sciences, total compensation includes a competitive salary, bonus, stock options, 401(k) and generous benefits. Please submit your resume to: Senior Manager, Recruiting, Advanced Tissue Sciences, Inc., 10933 North Torrey Pines Road, La Jolla, CA 92037; fax: (619) 450-5753; e-mail: jobs@advancedtissue.com. EOE M/F/D/V



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The Endowment for **SCHOLARS** in **Biomedical Research**

at
The University of Texas Southwestern Medical Center

UT Southwestern is pleased to announce a new Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

Or contact

John Perkins, Ph.D.
Endowed Biomedical Scholars Program
UT Southwestern Medical Center
5323 Harry Hines Boulevard
Dallas, Texas 75235-9004
Telephone: (214) 648-2174
FAX: (214) 648-2102

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SOUTHWESTERN MEDICAL CENTER
AT DALLAS

UT Southwestern is an equal opportunity institution

RESEARCH SCIENTIST

BetzDearborn Paper Process Group, a subsidiary of BetzDearborn, Inc., is the premier supplier of specialty process chemicals to the international pulp and paper industries. Our Technology Department's Microbiology Research & Development section is currently accepting applications for a research scientist position at our global headquarters in Jacksonville, FL. This position performs research and development of novel technologies related to microbiological control in pulp and paper process systems.

To qualify, you must have a Ph.D. in Microbiology or closely related discipline, and 1-3 years' post-doctoral or industrial experience. A background in biofilm/biofouling studies and the ecophysiology of biofilm-associated micro-organisms, and familiarity with QSAR and other molecular modeling and/or molecular techniques for studying micro-organisms in aquatic systems, is required. You should have a record of research productivity as demonstrated by either patent activity or peer-reviewed publications.

This is an opportunity for an outstanding scientist to join a team of professionals who share a commitment to employing scientific principles in the development of products to solve complex industrial problems and meet market needs.

Your application should include a detailed resume, a statement of research interests/philosophy, and at least 3 references. Please apply to: **Human Resources, BetzDearborn, 7510 Baymeadows Way, Jacksonville, FL 32256. Fax: 904-448-4987. Website: www.betzdearborn.com**



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TIGR Science Education Foundation, Inc. Proudly Announces that the

10TH INTERNATIONAL GENOME SEQUENCING AND ANALYSIS CONFERENCE

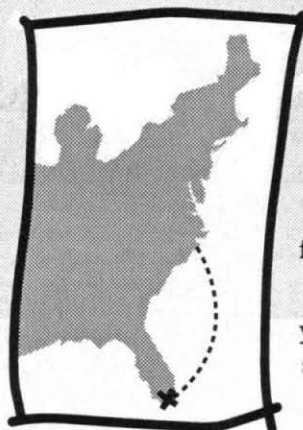
sets sail for the

**Fontainebleau Hilton Resort
& Towers
Miami Beach, Florida
September 17-20, 1998**



The Genome Sequencing and Analysis Conference (GSAC) has been the preeminent conference in genomics for the last nine years. This conference has brought the leaders of the field together each year in Hilton Head, but as genomics have grown, so have we.

To celebrate our tenth year we set sail southward to Miami Beach to a larger site that will allow us to continue to bring all those interested in genomics together. This new venue is located near two large international airports for easier, less expensive travel. It will also give us increased meeting space, expanded space for



exhibitors and posters, while keeping the entire event under one roof.

In the first conferences we addressed how genomics would be undertaken—now numerous whole genomes are being sequenced. This tenth year celebration will put the past in perspective and help identify where genomics will go in the future.

We don't want to miss anyone, so if you're not on our mailing list visit our website at www.tigr.org/tsef/ to sign up, or to get more information about the Conference, the Fontainebleau Hilton, and Miami Beach.

TIGR Science Education Foundation Conference Office

9712 Medical Center Drive, Rockville, MD 20850-3319 • 301-838-3509 or 3515 • 301-838-0229 FAX • seqconf@tigr.org



The Academy for Educational Development
announces the

National Security Education Program 1998 Graduate International Fellowships

National Security Education Program (NSEP) Graduate International Fellowships enable U.S. graduate students to pursue specialization in area and language study or to add an important international dimension to their education. The NSEP embodies a recognition that the scope of national security has expanded to include not only the traditional concerns of protecting and promoting American well-being, but the new challenges of global society, including: sustainable development, environmental degradation, global disease and hunger, population growth and migration, and economic competitiveness.

NSEP fellowships are intended to support students who will pursue the study of languages, cultures, and world regions deemed critical to U.S. national security, excluding study of Western Europe, Canada, Australia, and New Zealand. Fellowships are awarded in a broad range of disciplines, including the applied sciences and engineering, to add a significant international dimension to a student's curriculum. Students already enrolled in internationally oriented programs are encouraged to intensify their study of areas, languages, and cultures through overseas study and limited domestic tuition support. Award recipients incur an obligation to work for the federal government or in the field of higher education, in that order of precedence.

Only U.S. citizens, enrolled in or applying to a graduate program in an accredited U.S. college or university, are eligible for this program. All applications must include formal study of a modern language other than English. Guidelines and application forms for NSEP Graduate International Fellowships may be obtained from our Web page at <http://www.aed.org/nsep>, or by contacting AED at 800-498-9360 or 202-884-8285. **Deadline:** All applications must be postmarked by **January 15, 1998**. No faxed submissions will be accepted; late applications will not be reviewed.

AED and NSEP are committed to the principle of diversity. Applications from individuals of traditionally under-represented groups especially are encouraged.

U.S. DEPARTMENT OF ENERGY
OFFICE OF BIOLOGICAL AND ENVIRONMENTAL RESEARCH



Alexander Hollaender DISTINGUISHED Postdoctoral Fellowship Program

Research Opportunities in Energy-Related
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- Tenable at various laboratories
- Stipends \$37,500
- Doctoral degree received after April 30, 1996
- U.S. citizens or PRA eligible

Information and application:

<http://www.orau.gov/ober/hollaend.htm>

or
Hollaender Postdoctoral Fellowships
Education and Training Division, MS 36
Oak Ridge Institute for
Science and Education
P.O. Box 117
Oak Ridge, TN 37831-0117
(423) 576-9975

Deadline January 15, 1998



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

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROBIOLOGY

St. Jude Children's Research Hospital has established a new Department of Developmental Neurobiology dedicated to the investigation of fundamental questions in contemporary neurobiology. Postdoctoral positions are available in the laboratory of Tom Curran to investigate the molecular basis of cell positioning in the developing brain. This work is an extension of studies on the genes responsible for anatomical defects in ataxic mice (D'Arcangelo et al., *Nature* 374:719-723, 1995; *J. Neurosci* 17:23-31, 1997; Sheldon et al., *Nature* 389:730-733, 1997). Ideal candidates should send a curriculum vitae and three letters of recommendation to:

Dr. Tom Curran, Chairman
Department of Developmental Neurobiology
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105

*St. Jude Children's Research Hospital
is an equal opportunity employment/affirmative action employer.*

POSTDOCTORAL FELLOWSHIPS at the WOODS HOLE OCEANOGRAPHIC INSTITUTION

**Applied Ocean Physics & Engineering
Biology, Marine Chemistry & Geochemistry
Marine Geology & Geophysics
Physical Oceanography**

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Fellowships are awarded for 18 month appointments with a stipend of \$38,500 per year, a modest research budget and eligibility for group health insurance. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by **January 15, 1998** for the 1998-99 awards. Awards will be announced in March. Write for application forms to:

**Dean of Graduate Studies,
Education Office, MS #31
Woods Hole Oceanographic Institution
Woods Hole, MA 02543-1541
Or call (508) 289-2219
or e-mail lcampbell@whoi.edu**

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pharmaceutical discovery
and development



DRUG METABOLISM & PHARMACOKINETICS AT SCHERING-PLOUGH

It's an exciting time at the Schering-Plough Research Institute. Every day, some of the world's brightest minds are discovering breakthrough therapeutic agents and treatments that will improve the health and extend the lives of millions of people around the world. As we continue to experience unprecedented growth, we are moving confidently into the 21st century and seek exceptional Scientists whose goal is to make a difference in the areas of Drug Metabolism and Pharmacokinetics in support of both drug discovery and drug development.

SENIOR SCIENTISTS

Bioanalytical, Drug Development

Will develop and validate sensitive, selective and robust LC-MS/MS assays for quantitation of drugs and their metabolites in biological matrices. Involves implementation of new automation and separation/mass spectrometric technologies for quantitative bioanalysis. Requires a PhD in Chemistry or Biochemistry and 1-3 years of related experience including HPLC and mass spectrometry. For consideration, respond to Dept. DD71-02-BG.

Pharmacokinetics

Will conduct pharmacokinetic analyses, interpret and present results, and prepare reports for both preclinical and clinical studies. Requires a PhD in Pharmacokinetics and 0-3 years of relevant industrial/academic experience. Experience with pharmacokinetic/pharmacodynamic and population pharmacokinetic modeling is highly preferred. For consideration, respond to Dept. DD97-52-BG.

Drug Metabolism/ Pharmacokinetics Documentation

Will prepare preclinical documentation for domestic and international submissions of new drugs, summaries for annual IND/NDA reports, and responses to regulatory agency questions. Requires a PhD in Pharmaceutical Sciences and 1-4 years of experience which includes in-depth knowledge of Drug Metabolism/Pharmacokinetics. For consideration, respond to Dept. DD97-55-BG.

Bioanalytical and Metabolite Identification

Will operate and maintain a Finnigan TSQ API or LCQ API LC/MS system as well as develop methods for quantitative analysis of drugs in plasma and identify metabolites in plasma, urine and bile. Requires a PhD in Analytical Chemistry and at least 2 years of LC/MS/MS experience which includes both method development and structural elucidation. For consideration, respond to Dept. DD71-43-BG.

PRINCIPAL SCIENTIST/ MECHANISTIC ABSORPTION SPECIALIST

Exploratory Drug Metabolism

Will relate various physiochemical and molecular parameters to drug permeability and absorption, with the ultimate goal of designing compounds with good oral bioavailability. Requires a PhD in Physical Organic Chemistry, Chemistry or Biochemistry and at least 6 years of experience emphasizing computational chemistry. Knowledge of computer programs that calculate molecular and physiochemical parameters plus the ability to apply interactive molecular modeling, molecular mechanics/dynamics and quantum mechanics to computer-assisted drug design are essential. A working knowledge of mathematical modeling and understanding of permeability and oral absorption are also required. For consideration, respond to Dept. DD97-92-BG.

ASSOCIATE PRINCIPAL/PRINCIPAL SCIENTIST

Bioanalytical, Drug Discovery

Will use Finnigan TSQ 7000 and LCQ LC/MS systems for both bioanalytical assays and metabolite identification in new drug discovery. Requires a PhD and at least 3 years of experience operating LC-API-MS/MS equipment. Experience with SCIEX API 365 or Finnigan TSQ 7000/LCQ-MS systems is highly desirable. Ideal candidates will have at least 3 years in a drug metabolism department of a major pharmaceutical company. For consideration, respond to Dept. DS96-07-BG.

ASSOCIATE SCIENTISTS

In Vitro Drug Disposition

Will participate in analytical method development and analysis of biological samples for drug candidates and metabolites as well as conduct *in vitro* metabolism studies. Requires a BS degree and at least 4 years of experience or an MS and at least 2 years of experience in drug metabolism and bioanalytical method development. Must be able to use modern analytical techniques such as HPLC and GC. A knowledge of *in vitro* techniques is desirable. For consideration, respond to Dept. DD71-46-BG.

Drug Disposition

We seek a Scientist with an LC/MS background to support ADME studies. Requires a BS degree in Analytical Chemistry, Medicinal Chemistry or a related discipline and at least 4 years of experience or an MS and at least 2 years of bioanalytical LC/MS and computerized data acquisition experience. Hands-on experience in liquid chromatography with UV, radioactivity and mass spectrometric detection is desired. Additional experience in extraction/purification and isolation of drugs and metabolites from biological fluids is highly preferred. For consideration, respond to Dept. DD71-72-BG.

Candidates for the above highly interactive positions on multidisciplinary research teams must possess excellent verbal/written communication, interpersonal and computer skills.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



**Schering-Plough
Research Institute**

Using Science for Human Advantage

BIOINFORMATICS

Merck Research Laboratories, a world leader in the discovery and development of pharmaceutical and biological products, is expanding its Bioinformatics group to more fully address the integration of Genome Project information into the drug discovery process. The department has three highly visible opportunities which report directly to the head of Bioinformatics.

RESEARCH ASSOCIATE

To work as an integral member of drug discovery project teams, providing expertise in the areas of sequence analysis and protein informatics. Other duties include coordination of aspects of the bioinformatics users group, instruction in protein sequence analysis, and performance of independent research. A Ph.D. in Biochemistry, Molecular Evolution, Molecular Biology or Biophysics with post-doctoral experience is desired. Excellent communication skills, the ability to function effectively in a multi-disciplinary environment, and experience performing sequence analysis and gene finding are essential.

SCIENTIFIC PROGRAMMING ASSOCIATE

To be responsible for Sybase database administration and data management. The selected candidate will maintain and tune the Sybase SQL server and implement/maintain relational data warehouses, in support of gene finding efforts, target identification, and DNA sequence analysis worldwide. A degree in computer science or a related field with at least two years experience with a relational database and software development on a UNIX platform is required. Good communication skills and the ability to work well with others are necessary. Experience with protein and nucleic acid sequence databases is desirable.

SCIENTIFIC PROGRAMMING ASSOCIATE

To design, develop, and implement computer-oriented systems in collaboration with other members of the bioinformatics group. Advanced prototype systems for analysis of research data will be developed and you will work with corporate computer resources to develop production versions of such systems. Will integrate public domain and commercial software packages into the Bioinformatics research system and ensure that these software systems are maintained properly. Work with bioinformatics department members to develop new databases and database scanning mechanisms for nucleic acid and protein sequences and related information. M.S. or Ph.D. in biological, physical or computer science and at least 5 years of research programming experience using C, Fortran and object-oriented programming languages, or the equivalent, and the ability to perform independently are required. Must possess excellent communication and programming skills and be able to convey complex thoughts in written materials.

These positions may be located at either one of our laboratories in Rahway, New Jersey or West Point, PA. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references and indicating your desired location to: **Merck Research Laboratories, Human Resources, Ad #52, P.O. Box 2000, RY 80-A3, Rahway, NJ 07065.** Equal Opportunity Employer.



MERCK
Research Laboratories

CLONTECH

CLONTECH Laboratories, Inc., a dynamic, privately held company, manufactures innovative products for life science research. Our mission is to be a global leader in high-quality innovative products for the life science market. Our expertise in PCR and PCR-based technology, two-hybrid analysis, nucleic acid chemistry, gene expression, reporter systems and other molecular biology applications enables us to be a leader in cutting-edge technology.

We place emphasis on the development of our employees to meet the challenges of our industry. Our continued success has created excellent opportunities for hands-on professionals to contribute in the following positions.

ASSOCIATE RESEARCH SCIENTIST/ RESEARCH ASSOCIATE

This position will have responsibilities for construction of subtracted cDNA libraries for contract research projects. Requires technical experience in general molecular biology techniques and differential gene expression analysis, e.g. cDNA subtraction. Requires MS/Ph.D. in Molecular Biology, Biochemistry or related field with 2+ years' relevant experience. **BS9772**

RESEARCH SCIENTIST/RESEARCH ASSOCIATE

Responsibilities will include development of software for gene expression analysis project. Requires 2+ years in biology with 1 year in computer programming. Knowledge of C, C++, Pascal or Fortran and experience in image analysis, internet navigation and genetic databases. Requires MS/Ph.D. in Molecular Biology, Biochemistry or related field. **BS9773**

RESEARCH SCIENTIST/RESEARCH ASSOCIATE

Responsibilities will include development of new technologies for gene expression analysis. Requires extensive knowledge of PCR, nucleic acid isolation, differential gene expression analysis and at least 2 years experience in internet navigation and genetic database analysis. **BS9777**

RESEARCH ASSOCIATE

Responsibilities will be to clone a novel tumor suppressive gene. Express the protein in a baculovirus system. Detect recombinant protein by immunological methods and purify. Other responsibilities include expression of the gene in mammalian cells under control of various promoters. Experience in cloning and sequencing mammalian cell culture and experience in generation of recombinant proteins is desired. **BS9778**

If you would like to work among a select group of talented individuals in the biotech industry where innovation is the key to success, please send your resume indicating position to **CLONTECH Laboratories Inc., 1020 East Meadow Circle, Palo Alto, CA 94303, Attn: Human Resources. FAX: (650) 354-0775. Email: hr@clontech.com**

Visit us at **www.clontech.com**

EOE/AA/M/F

Postdoctoral Traineeships in Biochemical Toxicology and Reproductive Toxicology

The Curriculum in Toxicology, University of North Carolina, has openings for Postdoctoral Trainees. Research is conducted either on University of North Carolina campus (Position 1) or at the Environmental Protection Agency (EPA) (Positions 1–17) in Research Triangle Park, NC. *Funding sources limit awards to U.S. citizens or permanent residents.*

Preliminary applications (curriculum vitae, names and addresses of three references) for all positions should be sent to: **David Holbrook; Curriculum in Toxicology; University of North Carolina; Chapel Hill, NC 27599-7270. Telephone (919) 966-4685; Fax (919) 966-6357. E-mail: david_holbrook@unc.edu.** A candidate who wishes more specific information on a research project should contact the Research Advisor.

Position 1: Research training and research in the biochemical and cellular effects of toxic substances in mammalian systems, including cultured cells. Research is conducted either on University of North Carolina campus or at the Environmental Protection Agency (EPA) in Research Triangle Park, NC.

Position 2: Environmental chemicals and endocrine disruption, with emphasis on ototoxicity and thyroid hormone metabolism: relationship between thyroid hormone depletion and structural and functional alterations in the nervous system. **Advisor: Kevin Crofton. E-mail: crofton.kevin@epamail.epa.gov**

Position 3: Metabolism and fate of arsenic: enzymology of arsenic methylation, formation and toxicity of arsenic-thiol complexes, and interaction between arsenic and proteins. Background in protein purification and enzyme kinetics required. **Advisor: David Thomas. Telephone: (919) 541-4974; Fax: (919) 541-5394.**

Position 4: Construction of microbial strains by classical and/or recombinant genetics techniques that can detect different classes of genotoxicants and contain genes expressing enzymes of metabolism. **Advisor: Elizabeth George, Environmental Carcinogenesis. Telephone: (919) 541-3918; Fax: (919) 541-0694; E-mail: george.elizabeth@epamail.epa.gov**

Position 5: Characterization of bromodichloromethane (BDCM) metabolism for rodent and cytochrome P450s: identification of the human and rodent CYP isoenzymes that participate in BDCM metabolism, characterization of their induction or inhibition. **Advisor: John W. Allis, Experimental Toxicology. Phone: (919) 541-2632; Fax: (919) 541-5394; E-mail: allis.john@epamail.epa.gov**

Position 6: Mechanisms of age-related neurotoxicity to anticholinesterase pesticides. For risk assessment, determination if sensitivity in the young can be extrapolated to other anticholinesterase pesticides by biochemical and pharmacokinetic endpoints, such as metabolism by carboxylesterase and phosphotriesterase pathways. **Advisor: Stephanie Padilla. Phone: (919) 541-3956; Fax: (919) 541-5024; E-mail: padilla@herl45.herl.epa.gov**

Position 7: Synthesis of novel fjord-region environmental polycyclic aromatic hydrocarbons and their metabolites. These compounds possess exceptionally high mutagenic and tumorigenic activities in *in vivo* and *in vitro* systems. **Advisor: Stephen Nesnow. Phone: (919) 541-3847; Fax: (919) 541-0694; E-mail: nesnow.stephen@epamail.epa.gov**

Position 8: Pharmacokinetics of water disinfection by-products (DBP) in pregnant and non-pregnant female rats: dosimetry of brominated DBPs in reproductive target tissues and the role of metabolism in producing adverse reproductive outcomes. **Advisor: Rex Pegram. Phone: (919) 541-0410; Fax: (919) 541-5394; E-mail: pegram.rex@epamail.epa.gov**

Position 9: Trihalomethane pharmacokinetics and pharmacodynamics: rodent to human extrapolation: to compare mechanistic determinants of toxicity and carcinogenicity of brominated trihalomethanes in rodents and humans to facilitate interspecies extrapolations for health risk assessments. **Advisor: Rex Pegram. Phone: (919) 541-0410; Fax: (919) 541-5394; E-mail: pegram.rex@epamail.epa.gov**

Position 10: Perturbation of gap junctions as a possible molecular mechanism of haloacetate-induced cardiac defects. Determination if gap junctions are important in neural crest migration and differentiation into the heart, or if gap junctions are required for septation of the heart. **Advisor: Sid Hunter. Phone: (919) 541-3490; Fax: (919) 541-4017; E-mail: hunter.sid@epamail.epa.gov**

Position 11: Molecular mechanisms responsible for apoptosis and cell cycle perturbation during development in the embryo. **Advisor: Sid Hunter. Phone: (919) 541-3490; Fax: (919) 541-4017; E-mail: hunter.sid@epamail.epa.gov**

Position 12: Reproductive effects of disinfection by-products in the female rat: the effects on the endocrine regulation of reproductive activity in the non-pregnant female. **Advisor: Jerome Goldman. Phone: (919) 541-2320; Fax: (919) 541-5138; E-mail: goldman.jerome@epamail.epa.gov**

Position 13: Environmental toxicant-induced alterations in neurotransmitter and neuroendocrine control of female reproduction: action on neurotransmitter and neuropeptide receptors and subsequent alterations in pituitary luteinizing hormone and prolactin release. **Advisor: Ralph Cooper. Phone: (919) 541-4084; Fax: (919) 541-5138; E-mail: cooper.ralph@epamail.epa.gov**

Position 14: Cellular and molecular mechanisms of abnormal reproductive development: effects of developmental toxicants and endocrine-disrupting chemicals on mammalian reproductive development. **Advisor: Earl Gray, Reproductive Toxicology. Phone: (919) 541-7750; Fax: (919) 541-4017.**

Position 15: Expression of Th1 and Th2 responses and their role in immunotoxicity, particularly to detecting potential respiratory sensitizers: to identify cell surface and intracellular molecules by flow cytometry or molecular biology techniques. **Advisor: Ralph Smialowicz. Phone: (919) 541-5776; Fax: (919) 541-5394; E-mail: smialowicz.ralph@epamail.epa.gov**

Position 16: Integration of kinetic and dynamic aspects of arsenic toxicity: relationship between tissue dosimetry of inorganic arsenic and its methylated metabolites and development of early toxicologic changes (e.g., enzyme induction and inhibition). Both simulation modeling and laboratory-based toxicologic research. **Advisor: Elaina Kenyon. Phone: (919) 541-0043; Fax: (919) 541-5394; E-mail: kenyon.elaina@epamail.epa.gov**

Position 17: Development of mathematical models for risk assessment of air pollutants: a biomedical engineering study and involves specifically the development of theoretical models to describe the behavior and fate of inhaled particles and gases for applications to inhalation toxicology and aerosol therapy. **Advisor: Ted Martonen. Phone: (919) 541-7875; Fax: (919) 541-4284; E-mail: martonen@herl45.herl.epa.gov**

POSITIONS OPEN

THERMAL ENGINEERING FACULTY POSITION DEPARTMENT OF MECHANICAL ENGINEERING Massachusetts Institute of Technology

The Department of Mechanical Engineering at MIT is seeking applications for a tenure-track faculty position in thermal engineering. Applications at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** (without tenure) are preferred, although tenured appointments may be considered where appropriate.

Applicants should hold a doctoral degree in mechanical engineering or a related discipline. We are interested in candidates from all areas of thermal engineering, including heat transfer and thermodynamics, as well as those involved in thermal research related to energy conversion and storage, two-phase flow, microscale engineering, biological systems, supercritical fluids, and manufacturing processes. Candidates having a background outside traditional mechanical engineering are also encouraged to apply, if their interests are relevant to thermal technologies.

Applications should include: A complete curriculum vitae, including citizenship and/or visa status; the names of at least three references who are familiar with the candidate's research abilities; a detailed statement of the candidate's research interests (this statement should indicate the scope of the research and its importance to basic technical and scientific knowledge or to specific technological needs); a statement of teaching interests; one or two representative publications; and summary of the candidate's course work (transcript if convenient).

Applications received after February 28, 1998, may not receive full consideration. Address all correspondence to:

Thermal Engineering Faculty Search
Department of Mechanical Engineering, Room 3-173
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139-4307

MIT is an Equal Opportunity Employer and invites applications from women and underrepresented minorities.

DEPARTMENT OF PSYCHIATRY FACULTY POSITION TENURE-TRACK

The Department of Psychiatry at the Uniformed Services University of the Health Sciences is seeking to fill a tenure-track research and teaching position (**ASSISTANT/ASSOCIATE PROFESSOR**). The Department is comprised of twenty full-time faculty and seeks an individual with research interests to complement ongoing neuroscience research in: neurobiology of stress, anxiety (particularly acute stress responses, PTSD, and dissociation); psychiatric responses to traumatic events; neurochemical and behavioral correlates of drugs and drug abuse; psychoimmunology. Individuals who hold M.D. or Ph.D. degrees and have active research interests that complement or expand upon the above areas are invited to apply. Send curriculum vitae, description of current and anticipated research interests, and three references to: **Uniformed Services University of the Health Sciences, ATTN: Harry C. Holloway, M.D., Department of Psychiatry, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.** The University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN PHARMACOLOGY AND PHARMACEUTICS

The College of Pharmacy invites applications for three nine-month, tenure-track positions, in pharmacology (two) and pharmaceuticals (one). Successful candidates must possess a Ph.D. in pharmacology or pharmaceuticals, preferably with relevant postdoctoral experience and research interests in the areas of neurobiological sciences, nutritional pharmacology/pharmacokinetics, or cellular control mechanisms. Applicants must be able to effectively teach at an organ systems level. Candidates able to maintain an extramurally funded research program, with evidence of scholarly productivity, and with experience in pharmacy education are preferred. Interested individuals should submit an application letter containing a summary of teaching and research interests, curriculum vitae, and the names, addresses, and telephone numbers of three references to: **Eric J. Jarvi, Ph.D., Chair, Search Committee, Campus Box 8334, Pocatello, ID 83209.** E-mail: jarvie@otc.isu.edu. The positions will be available July 1, 1998, and will remain open until filled. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITIONS IN DEVELOPMENTAL BIOLOGY HERMAN B. WELLS CENTER FOR PEDIATRIC RESEARCH Indiana University School of Medicine

Applications are now being accepted for four new tenure-track faculty positions at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** for a new research group in developmental biology. Areas of interest include developmental neurobiology, genetics, gene regulation, cell-cell interactions, and signal transduction pathways. Applicants must possess a Ph.D. and/or M.D. degree, and have a record of research productivity and grant support. Successful candidates will have academic appointments in pediatrics and in a basic science department of the Medical School, and are expected to establish a strong externally funded research program and contribute to graduate and medical education. Positions come with generous start-up packages. This recruitment represents an expansion of the Wells Center, a highly interactive and multidisciplinary research center. Active programs currently include hematopoiesis and myeloid gene regulation, gene therapy, DNA repair, and fetal and neonatal metabolic physiology. Transgenic and gene targeting facilities and a mass spectrometry core facility are available on site.

Applicants should submit a curriculum vitae, summary of research accomplishments and future research plans, and the names of at least three references by November 15, 1997, to:

Dr. Mary Dinauer
Chair, Search Committee
Wells Center for Pediatric Research/
Riley Hospital for Children
702 Barnhill Drive, Room 2720
Indianapolis, IN 46202
E-mail: mary_dinauer@iuc.iupui.edu

Indiana University is an Equal Opportunity/Affirmative Action Educator, Employer, and contractor.

FACULTY POSITION PHARMACOLOGY

The Fox Chase Cancer Center (FCCC), a nationally recognized research center and oncology hospital, has an additional opening for a tenure-track faculty position at the **ASSOCIATE MEMBER (ASSISTANT PROFESSOR)** level in the Department of Pharmacology. The selected individual will devote full effort to the development of an independent, peer-reviewed research program which will complement existing efforts in the molecular pharmacology and genetics of cancer chemotherapy. Individuals with interest and/or experience in molecular approaches to drug development and/or genetic determinants of response are especially encouraged to apply. The FCCC provides a generous start-up package, and a highly interactive research atmosphere in a suburban environment. Further information is available at **website: <http://www.fccc.edu>**. Candidates with a Ph.D. and/or M.D. degree should send a curriculum vitae, research plan, and names of three references to: **Dr. Kenneth D. Tew, Head of Search Committee, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** Equal Opportunity Employer.

FACULTY POSITION NEUROSCIENCE

The Neuroscience Program at Oberlin College, an undergraduate institution, invites applications at the **ASSISTANT PROFESSOR LEVEL OR ABOVE**, for a tenure-track position commencing fall 1998. Open to applicants with training in any area of neuroscience. Candidates are expected to conduct a vigorous research program and applicants who use behavioral or molecular techniques are encouraged to apply. Teaching experience is preferred. Responsibilities include team-teaching at the introductory level, and two upper-level courses with lab in the candidate's areas of expertise. Ability to teach either learning and memory, sensory or motor neurophysiology, developmental neurobiology, molecular neuroscience, or behavioral neuroscience is desirable. Ph.D. required. Send application, curriculum vitae, academic transcripts, statements of teaching and research interests, and three letters of recommendation to: **J. Thornton, Neuroscience Program, Oberlin College, Oberlin, OH 44074.** Review of applications begins December 8, 1997. Affirmative Action Employer/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF BIOLOGY, UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

The Department of Biology at University of North Carolina at Charlotte invites applications for two faculty positions to begin in August 1998. The department has a focus in biomedical science and biotechnology with strong ties with the Carolinas Medical Center; it offers Baccalaureate and Master's degrees and anticipates a Ph.D. program to begin in the fall of 1998. Candidates must demonstrate a strong commitment to research and teaching. Research areas should complement existing strengths in vascular biology, reproductive endocrinology, or host-microbe interactions. Review of applications begins December 1, 1997.

BELK DISTINGUISHED PROFESSOR OF BIOLOGY (endowed, tenured). The candidate should have a strong record of extramurally funded research, ideally using biochemical approaches to the investigation of physiological problems related to human health. Candidates should send letter of application, curriculum vitae, and three letters of reference to: **Dr. Mark Clemens, Chair, Belk Professor Search Committee, College of Arts and Sciences, UNC-Charlotte, Charlotte, NC 28223.**

CELL BIOLOGIST (ASSISTANT PROFESSOR, tenure-track). The candidate will be expected to develop a vigorous, externally funded research program that involves graduate and undergraduate students. Teaching duties include rotation in cell biology for majors, an upper-level course in development, and graduate classes in an area of specialty. Preference will be given to candidates studying molecular aspects of cell signaling. Send an application letter, a curriculum vitae, statements on teaching and future research plans, and three letters of reference to: **Chair, Cell Biology Search Committee, Department of Biology, UNC-Charlotte, NC 28223.** An Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

FACULTY POSITION ANIMAL VIROLOGIST University of Maryland, College Park

The Department of Microbiology invites applications for a **TENURE-TRACK** faculty position in animal virology from qualified individuals at any rank. Areas of interest may include, but are not limited to, viral pathogenesis, virus-receptor interactions, and virus-induced cell death; proposed research should complement existing departmental strengths in immunology and/or cell and molecular biology. Appointment includes a highly competitive package consisting of generous start-up funds, newly renovated laboratory space, and access to state-of-the-art core facilities. An outstanding research record and solid history of generating research support is a prerequisite for an appointment at the senior level. Teaching responsibilities include participation in our undergraduate and graduate programs. Applicants should send curriculum vitae, a statement of current and future research interests, copies of three to five representative publications, and should arrange for three letters of reference to be sent to: **Dr. E. Gantt, Chair of the Search Committee, Department of Microbiology, University of Maryland, College Park, MD 20742.** For best consideration, application material should be received by December 15, 1997. The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

Saint Vincent College invites applications for a **TENURE-TRACK PROFESSOR** position in microbiology, beginning in the fall of 1998. Requirements include a Ph.D. and broad training in microbiology. Teaching responsibilities include courses with labs in microbiology and in the candidate's area of expertise, as well as courses for nonscience majors. The successful candidate will supervise required junior and senior research projects and participate in team-taught general biology.

Saint Vincent College is a Catholic, Benedictine, liberal arts institution that serves 1,200 undergraduates. The Biology Department consists of five faculty and 110 students and emphasizes preparation for graduate and professional school studies.

Please submit a curriculum vitae, three letters of recommendation, undergraduate and graduate transcripts, and a statement of teaching and research interests by December 15, 1997, to: **Director of Personnel, Saint Vincent College, 300 Fraser Purchase Road, Latrobe, PA 15650.** Equal Opportunity/Affirmative Action Employer.

The Untapped Power of **DISCOVERY**

Established in 1993, SCRIPTGEN is a leading molecular therapeutics company developing unique drug discovery technologies that represent breakthrough advances in the race to develop effective therapies. Our proprietary, affinity-based screening system, ATLAS (Any Target Ligand Affinity Screen) allows novel protein targets to be screened in a high throughput mode, and our SCAN (Screen for Compounds with an Affinity for Nucleic Acid) and RNA transcripts technologies are facilitating the discovery of important drugs that regulate RNA. The success of these technologies, coupled with our advances in the therapeutic modulation of microbial gene transcription, has created expansion opportunities in our research organization. We are seeking the skills and expertise of highly motivated, team-oriented scientists who are ready to bring their innovative ideas to the brink of discovery.

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~ Utilize bioinformatics to select novel therapeutic targets and create and manage databases of biological information as a member of our drug discovery team. Establish collaborations with molecular biologists, biochemists, and external partners in the areas of genomics and informatics. The successful candidate possesses an MS or Ph.D. degree in biology with a solid background and proven experience in computer science and bioinformatics. Requires demonstrated knowledge of relevant software and databases, excellent communication skills, and profound understanding of biological issues relevant to drug discovery. Job Code: BI01

MS/BS Molecular Geneticists

~ Play a hands-on role in identification and characterization of novel drug targets in our antimicrobial drug discovery programs using molecular genetic approaches. Requires an MS or BS degree in Molecular Biology, Genetics, Microbiology, Biochemistry or related discipline with at least two years' experience in molecular cloning techniques using microbial systems. Job Code: GEN1

Ph.D. Molecular Geneticist

~ Develop and implement novel gene analysis methods to evaluate therapeutic targets as part of our antimicrobial drug discovery program. Requires a Ph.D. with extensive experience in microbial molecular genetics. Experience with *Saccharomyces cerevisiae* is a plus. Job Code: GEN2

MS/BS Biochemists

~ Participate in interdisciplinary drug discovery programs. Positions involve establishment of novel high throughput assays, development of enzymatic and binding assays, protein expression and characterization, and elaboration of drug candidates. 2-5 years' experience in biochemistry including protein expression and purification, and ligand binding, RNA biochemistry, high-throughput screens, cell culture, protein folding, and immunoassays preferred. Job Code: AFF11

SCRIPTGEN offers competitive salaries and benefits, along with equity participation. Please reference Job Code when responding. Forward letters, references and resume to: Human Resources, SCRIPTGEN Pharmaceuticals, Inc., 200 Boston Avenue, Medford, MA 02155. Fax: 617-396-1028. An equal opportunity employer.



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- 12 Fellowships Annually
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- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be within 2 years of completing dissertation research

POSTDOCTORAL

SCIENCE RESEARCH
FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$40,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow during the 1998 calendar year at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American and U.S. citizens or permanent residents.

Applications must be postmarked by January 15, 1998

For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., by mail at *The College Fund/UNCF*, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, or by E-mail: uncfmerck@uncf.org

Visit our web site: www.uncf.org

POSITIONS OPEN

CHAIR, DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

The School of Medicine of the University of North Carolina at Chapel Hill is reopening the search for an individual to Chair the Department of Pathology and Laboratory Medicine and to provide academic and administrative leadership in programs of laboratory medicine, anatomic pathology, teaching, and research. **Dr. Joe Grisham**, who ably chaired the Department for 23 years, is retiring, and we seek an outstanding leader to continue the tradition of excellence in this fine department. Minimum qualifications include an M.D. degree and a distinguished record of performance in research and teaching, with potential or demonstrated abilities to lead and manage a complex and multifaceted academic department. Experience in hospital laboratory medicine is desirable. Research interests may be in any relevant areas of anatomic pathology, pathobiology, or the biomedical sciences. Review of applications will begin on November 1, 1997, and continue until the position is filled. Reply by sending a current curriculum vitae, a letter of interest, and the names and addresses of four references to: **P. Frederick Sparling, M.D., Chair, Pathology and Laboratory Medicine Search Committee, Office of the Dean, School of Medicine, University of North Carolina at Chapel Hill, CB#7000, 125 MacNider Building, Chapel Hill, NC 27599-7000, ATTN: Jane Teeter.** Affirmative Action/Equal Opportunity Employer. Women and minority applicants are encouraged to voluntarily identify themselves.

CORNELL COLLEGE MOUNT VERNON, IOWA DEPARTMENT OF BIOLOGY

Cornell College, a private undergraduate liberal arts college, invites applications for a tenure-track appointment in its Department of Biology. Responsibilities include teaching introductory biology, animal behavior, ecology, seminar in evolution, and an upper-level organismal specialty course (e.g., ornithology, entomology). The successful candidate will be expected to develop introductory-level courses for non-majors and to develop a research program which incorporates undergraduate students. Appointment at the **ASSISTANT PROFESSOR** level to begin in the fall of 1998. Shared appointment will be considered. Ph.D. required; postdoctoral experience and college teaching experience preferred; and a familiarity with molecular techniques desirable. Cornell College has attracted national attention for its distinctive academic calendar under which faculty teach and students take one course at a time in month-long terms. The College is committed to excellence in teaching and encourages interdisciplinary interests among its faculty. Send letter, curriculum vitae, and three letters of reference to: **Ms. Ann Opatz, Office of Academic Affairs, Cornell College, 600 First Street West, Mount Vernon, IA 52314-1098.** Formal consideration of applications begins November 21, 1997.

Cornell College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

BIOENGINEERING FACULTY POSITION

The University of Illinois at Chicago, Department of Bioengineering, is inviting applications for full-time, tenure-track positions at the **ASSISTANT** and **SENIOR PROFESSOR** levels. Desired areas of interest include biomedical instrumentation, biological signal processing, medical imaging, biomaterials, biomedical visualization, biomechanics, and rehabilitation engineering. The Bioengineering Department offers B.S., M.S., and Ph.D. degrees, and has a strong emphasis on graduate training and research. The present enrollment is approximately 100 undergraduate and 50 graduate students. Additionally, an M.D.-Ph.D. program is offered jointly by the Bioengineering Department and the College of Medicine. This position must be filled by the fall of 1998. Please send a detailed curriculum vitae, reprints of publications, a statement of research interests, and the names of three references to:

**R. L. Magin, Ph.D., Chairman,
Faculty Search Committee
University of Illinois at Chicago
Department of Bioengineering (M/C 063)
851 South Morgan Street, Room 1021 SEO
Chicago, IL 60607-7052**

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

POSITIONS OPEN

FULL PROFESSOR OF BIOPHYSICS JOHNS HOPKINS UNIVERSITY

As part of a five-year expansion program, the Thomas C. Jenkins Department of Biophysics plans to appoint a faculty member at the Full Professor level whose research interests focus on the biophysics of macromolecules. Applicants should have research programs involving experimental and/or computational methods that provide quantitative approaches to problems of biological and physiological interest.

To apply, please send curriculum vitae, a brief description of current research and research plans to:

**Eaton Lattman, Chair
T. C. Jenkins Department of Biophysics
Johns Hopkins University
3400 North Charles Street
Baltimore, MD 21218
Telephone: 410-516-7245
FAX: 410-516-4118**

Additional information can be obtained from **Eaton Lattman**, e-mail: lattman@jhu.edu. Applications should be received by 31 December 1997. Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer and actively encourages applications from underrepresented minorities and women.

ANIMAL PHYSIOLOGIST

The Department of Biology of Pomona College, a highly selective, national liberal arts college, invites applications for a tenure-track **ASSISTANT PROFESSOR-SHIP** to begin in fall, 1998. Applicants should have broad training in biology and extensive training, including postdoctoral experience, in animal physiology. One semester the successful candidate will teach an upper-division course with lab in animal physiology, which may alternate with another course in his/her area of specialization. The other semester the appointee will teach a sophomore-level core course with lab in ecology and evolution. The successful candidate will be expected to establish an active research program involving undergraduates; start-up funds are available. We particularly encourage applications from members of groups underrepresented in the sciences. The appointee will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts setting. Send curriculum vitae, statements of research and teaching interests, and three letters of recommendation to: **Animal Physiology Search, Department of Biology, Pomona College, Claremont, CA 91711. Telephone: 909-607-2950; FAX: 909-621-8878.** For full consideration, applications should be received by November 21, but will be accepted until the position is filled.

Pomona College is an Affirmative Action/Equal Opportunity Employer.

CHAIR DEPARTMENT OF HUMAN GENETICS UNIVERSITY OF PITTSBURGH

Nominations and applications are requested for a Chairperson to lead the growth and development of a joint Department of Human Genetics in the School of Medicine and the Graduate School of Public Health. The ideal candidate will hold an advanced degree (Ph.D., M.D., or both) and will have a vigorous research program in the molecular analysis of human disease, bridging the basic and clinical sciences, with demonstrated leadership ability in fostering faculty development and graduate and medical student education. The new chairperson will be responsible for faculty recruitment and for interfacing the department with various University departments, institutes, and centers. This twelve-month tenured Professor position will have a salary commensurate with the experience of the individual and can be occupied as soon as possible. To ensure full consideration, applications should be received by January 3, 1998.

Interested persons should submit a letter of intent and curriculum vitae to: **Dr. Raymond A. Frizzell, Chairman of the Search Committee, Department of Cell Biology and Physiology, S362 Biomedical Science Tower (BST), 3500 Terrace Street, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. Telephone: 412-648-9362.**

Women and minorities are encouraged to apply. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN IMMUNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**Center for Cancer Research and
Department of Biology**

Applicants are sought for an appointment in the area of immunology. Rank will depend on qualifications and experience. Applicants should have demonstrated productivity in research in immunology. Areas of concentration could include innate immunity, autoimmunity, signaling within or between immune cells, hematopoiesis, infectious disease, and tumor-host interactions.

The appointment will require supervision of an active research program as well as undergraduate and graduate teaching.

Applications should include a curriculum vitae, brief summaries of past accomplishments, and future research plans. Letters of recommendation should be sent separately from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching.

Applications and letters should be sent to:

**Immunology Search Committee
E17-110, Center for Cancer Research
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139**

MIT is an Equal Opportunity/Affirmative Action Employer.

SENIOR FACULTY POSITION BIOCHEMISTRY AND MOLECULAR BIOLOGY

An opening for a **FULL PROFESSOR** is now available as part of our Program of Eminence in Molecular Recognition in Biological Systems. Applicants must have a national reputation, a proven ability to attract extramural funds, and a vigorous, productive research program, preferably in the areas of structural biology or eukaryotic molecular genetics. Other areas, particularly those involving multidisciplinary research, will also be considered. Applicants should be willing to participate in graduate and undergraduate teaching, have appropriate experience in an academic setting, and be eager to assume a leadership role commensurate with this rank. Generous start-up package and lab space are available. Review of applications will begin as soon as complete materials are received and will continue until the position is filled. Interested applicants should send a complete curriculum vitae, research prospectus, three representative publications, and the names and addresses (including e-mail) of four references to: **Dr. Gerald M. Carlson, Head, Division of Molecular Biology and Biochemistry, Search Committee 2, School of Biological Sciences, University of Missouri-Kansas City, Kansas City, MO 64110-2499.** An Affirmative Action/Equal Opportunity Employer.

Pulmonary and Critical Care Medicine. **FULL PROFESSOR** (tenured) position available as **DIRECTOR OF THE DIVISION OF PULMONARY AND CRITICAL CARE MEDICINE** in the Department of Medicine at the University of California, San Diego (UCSD). Candidate should have an active and vigorous investigative program, active clinical interests, teaching skills, and extensive administrative experience. The Division is responsible for an active Fellowship Program for the management of the Medical Intensive Care Unit, and for a vigorous and dynamic research program, at both the Veterans Affairs and UCSD Medical Centers. California medical licensure or eligibility required. Must be Board-certified in pulmonary and critical care medicine. Salary related to rank and step, and based on established UCSD salary scales. Reply by December 31, 1997, to: **Stephen I. Wasserman, M.D., Professor and Chair, Department of Medicine, UCSD Medical Center, 402 Dickinson Street, Suite 380, San Diego, CA 92103-8811.** Equal Opportunity/Affirmative Action Employer.

HARVARD MEDICAL SCHOOL HUMAN GENE THERAPY

POSTDOCTORAL POSITION. Anti-tumor chimeric IgTCR-modified T cells for cancer therapy. Molecular/cell biology skills; retroviral vector experience a plus. Send curriculum vitae, description of prior research, and names of two or more references by FAX: 617-432-7007 to: **R. P. Junghans, Ph.D., M.D., Director, Biotherapeutics Development Lab, Harvard Institute of Human Genetics.**

TIGR Science Education Foundation, Inc.

GENOMIC SCIENCE SERIES

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**January 31 - February 3, 1998
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An international conference devoted to the presentation and discussion of current progress in the sequence analysis and functional characterization of genes and genomes from a variety of microorganisms, including eubacteria, archaea, and yeast.

Conference Cochairs:

**Claire M. Fraser, Ph.D., The Institute for Genomic Research
Bart Barrell, Ph.D., The Sanger Centre**

Conference Organizing Committee

George Weinstock, University of Texas-Houston Health Sciences Center ■ Monica Riley, Woods Hole Marine Biological Laboratories
Ed DeLong, Monterey Bay Aquarium Research Institute ■ Vivek Kapur, University of Minnesota ■ John Mekalanos, Harvard Medical School

The topics to be covered in this year's conference will include:

Sequencing and Biology of Human and Animal Pathogens	Functional Genomics
Sequencing and Biology of Archaea	Molecular Evolution
Lessons Learned from Completed Genomes	Bioinformatics and Databases
Updates on Genome Projects in Progress	

Invited speakers include:

Siv Andersson, Uppsala University - Bart Barrell, The Sanger Centre - Frederick R. Blattner, University of Wisconsin-Madison
Sherwood R. Casjens, University of Utah School of Medicine - Rebecca Clayton, The Institute for Genomic Research
Stewart Cole, Institut Pasteur - Rita R. Colwell, University of Maryland Biotechnology Institute - Tyrrell Conway, Ohio State University
Brian A. Dougherty, The Institute for Genomic Research - Donald M. Engelman, Yale University - B. Brett Finlay, University of British Columbia - Robert D. Fleischmann, The Institute for Genomic Research - Claire M. Fraser, The Institute for Genomic Research
Malcolm J. Gardner, The Institute for Genomic Research - David Gelfand, Roche Molecular Systems - Tom Gingeras, Affymetrix, Inc.
John I. Glass, University of Alabama at Birmingham - Andre Louis Goffeau, Universite Catholique de Louvain - David A. Hopwood, John Innes Centre - Sue S. Kalman, Stanford University - Samuel Karlin, Stanford University - Karen A. Ketchum, The Institute for Genomic Research - Hans-Peter Klenk, The Institute for Genomic Research - Frederik Kunst, Institut Pasteur - Stuart B. Levy, Tufts University
Richard Losick, Harvard University - Lynn Miesel, Albert Einstein College of Medicine - George Miller, Schering-Plough Research Institute
James M. Musser, Baylor College of Medicine - Kenneth H. Nealson, University of Wisconsin-Milwaukee - Karen E. Nelson, The Institute for Genomic Research - Maynard V. Olson, University of Washington - Scott Peterson, The Institute for Genomic Research - Peter Philippsen, University of Basel - John N. Reeve, Ohio State University - David Relman, Stanford University - Richard J. Roberts, New England Biolabs
Bruce A. Roe, University of Oklahoma - Martin Rosenberg, SmithKline Beecham Pharmaceuticals - Andreas Ruepp, Max-Planck-Institute for Biochemistry - Milton H. Saier, Jr., University of California, San Diego - Steven Salzberg, The Institute for Genomic Research
Christa Schleper - Molly B. Schmid, Microcide Pharmaceuticals, Inc. - Randal W. Scott, Incyte Pharmaceuticals, Inc.
Christoph W. Sensen, National Research Council of Canada - Piotr Slonimski, Centre Nationale de la Recherche Scientifique
David Stahl, Northwestern University - Karl Stetter, Universitat Regensburg - Ronald V. Swanson, Diversa - Masaru Tomita, Keio University
A.P.G.M. Van Loon, Basel - J. Craig Venter, The Institute for Genomic Research - Gerald F. Volvis, Genome Therapeutics Corporation
Robert B. Weiss, University of Utah - Owen White, The Institute for Genomic Research - Carl Woese, University of Illinois at Urbana

ABSTRACTS DUE DECEMBER 15, 1997

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

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

or contact:

TIGR Science Education Foundation Conference Office, 9712 Medical Center Drive,
Rockville, MD 20850-3319

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

**Exhibit Opportunities
are still available**

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, SANTA CRUZ DEPARTMENT OF BIOLOGY TENURE-TRACK ASSISTANT PROFESSOR POSITIONS

The successful candidates will be expected to develop an extramurally funded research program and to teach at both the undergraduate and the graduate level.

Molecular cell biology: Applicants using molecular and genetic approaches to study the role of chromatin in transcription or other processes are encouraged to apply. Minimum qualifications: Ph.D. or equivalent in biology or a related field, postdoctoral research experience, and university teaching experience or demonstrated potential for university teaching. Provision #278.

Neurobiology: Applicants using molecular, genetic, or biochemical approaches to investigate fundamental problems in cellular and developmental aspects of neurobiology are encouraged to apply. Minimum qualifications: Ph.D. or equivalent in biology or a related field, postdoctoral research experience, and university teaching experience or demonstrated potential for university teaching. Provision #415.

Environmental toxicology: Applicants focusing on fundamental molecular, biochemical, or physiological mechanisms underlying the role of microorganisms as pathogens and/or their role in the synthesis or degradation of environmental toxins are encouraged to apply. The successful candidate, who initially will be a member of the Department of Biology, will be the fifth appointment in a proposed Environmental Toxicology Program composed of a scientifically diverse faculty and will be expected to participate in the development of a new graduate program in Environmental Toxicology. Minimum qualifications: Ph.D. or equivalent in microbiology, biology, biochemistry, toxicology, pharmacology, or a related field, and achievements in or demonstrated potential for university research and teaching. Postdoctoral experience is preferred. Provision #492.

Positions available fall 1998, subject to final budgetary approval. Applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and arrange for three confidential letters of recommendation to be sent to:

Search Committee
Department of Biology
225 Sinsheimer Laboratories
University of California
Santa Cruz, CA 95064
Website: <http://www.biology.ucsc.edu>

Candidates applying for more than one of the positions above may submit one application, but must indicate in a cover letter which position(s) they are applying for in order to be considered for the separate positions. Please refer to the correct Provision # in your reply.

Closing Date: December 15, 1997.

Please note that the Biology Department is also conducting a recruitment for an Assistant Professor in RNA Structural Biology in conjunction with the Department of Chemistry and Biochemistry. See page 736.

UCSC is an Affirmative Action/Equal Opportunity Employer.

BEHAVIORAL ECOLOGIST. Three-year position starting July 1998 at the ASSISTANT PROFESSOR level. Qualifications we seek include: (1) Ph.D. plus combined strengths in teaching and research, with a commitment to research with undergraduates; (2) experience and facility in field and laboratory studies. Teaching responsibilities in our 12-member Biology Department will include lectures and laboratories in an evolution-centered introductory course that includes Mendelian genetics and ecology, an upper-level elective course in one's specialty, and involvement in an interdisciplinary major program (biology/psychology) in the biological foundations of behavior. Enrolling 1,800 students, Franklin and Marshall is a coeducational liberal arts college with a tradition of strength in science, emphasizing faculty and student research. Send curriculum vitae, teaching statement (including experience and plans for actively engaging students in learning), and research plan by December 15, and arrange for graduate and undergraduate transcripts and three reference letters to be sent to: J. L. Richardson (Search Committee Chair), Department of Biology, Franklin and Marshall College, Lancaster, PA 17604-3003. Telephone: 717-291-4118; FAX: 717-399-4548; e-mail: c_mintyre@acad.fandm.edu. The College is committed to cultural pluralism through the hiring of minorities and women. Equal Opportunity Employer/Affirmative Action.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS IN NEUROBIOLOGY

Department of Anatomy and Neurobiology
University of Maryland School of Medicine

The department is continuing to expand by recruiting new faculty in neurobiology. Appointments at the ASSISTANT PROFESSOR level are preferred, but especially qualified applicants at all ranks will be considered. We are located in new quarters that include state-of-the-art core laboratories in imaging, neurophysiology, neuroanatomy, neurosurgery, and molecular neurobiology. The department has an NIH Program Project Grant and a newly awarded Training Grant. Departmental faculty are members of the new interdisciplinary Neuroscience Program (website: <http://neuroscience.umaryland.edu>).

Successful candidates will have a Ph.D. or equivalent, evidence of productive and independent research, with potential for attracting extramural funding. We are particularly interested in candidates whose interests complement our strengths in developmental, cellular, and molecular neurobiology, and who can establish collaborative research programs. The search is focused in two areas: (1) Applicants using multidisciplinary approaches to analyze the functional organization of mammalian central neural networks. For example, chronic unit recordings during behavioral/learning tasks combined with genetic or pharmacological interventions to perturb specific elements of the circuit under study. (2) Applicants using contemporary molecular and cellular approaches to investigate development/plasticity or organization/function of mammalian central nervous system circuits. For example, use of targeted gene manipulations, combined with anatomical or functional imaging techniques, to analyze mechanisms underlying axonal guidance/targeting and/or neurogenesis/cell fate determination.

Faculty participate for three to five weeks in a team-taught medical school course. Salary and start-up packages are competitive. For best consideration, applications should be received before December 31, 1997. Candidates should submit a detailed curriculum vitae, a one-page statement of research achievements and goals, relevant reprints, and the names and addresses of three to five references to:

Dr. Asaf Keller and Dr. Matthew Ennis
Faculty Search Committee
Department of Anatomy and Neurobiology
University of Maryland School of Medicine
685 West Baltimore Street
Baltimore, MD 21201

We are eager to diversify our faculty. Women and minorities are encouraged to apply. The University of Maryland is an Affirmative Action/Equal Opportunity/ADA Employer.

CELL BIOLOGY/NEUROBIOLOGY

The Department of Biology at Queens College of The City University of New York seeks a tenure-track ASSISTANT or ASSOCIATE PROFESSOR, beginning September 1998. We seek candidate with doctoral degree, postdoctoral experience, and a record of research achievement in the areas of cell biology and/or neurobiology. Established record of funded research projects is highly desirable and is expected for appointment as Associate Professor. Responsibilities will include establishment of an active research program and teaching at the undergraduate and M.A./Ph.D. level. Salary range: Assistant Professor: \$29,931 to \$52,213, or Associate Professor: \$39,000 to \$62,394. Send letter detailing research interests/future plans, curriculum vitae, and three letters of recommendation. Complete application including letters of recommendation must be received by December 30, 1997. Send to: Dr. Zahra Zakeri, Chair, Search Committee, Department of Biology, Queens College, City University of New York, Flushing, NY 11367-1597. Affirmative Action/Equal Opportunity Employer/ADA.

California State University, Hayward, California tenure-track ASSISTANT PROFESSOR in human development available September 1, 1998. Ph.D. in any discipline that studies human beings (e.g., human biology), with expertise in adult development. Deadline December 15, 1997. Submit application, curriculum vitae, graduate transcripts, publications, three recommendations to: Marilyn Silva, Department of Human Development, California State University, Hayward, CA 94542-3037. Position #98-99 HUMDEV-TT. More information website: www.csu Hayward.edu/ALSS/ALSS/ALSSHome.html. Equal Opportunity Employer.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, SANTA CRUZ RNA STRUCTURAL BIOLOGY ASSISTANT PROFESSOR

The Department of Biology and the Department of Chemistry and Biochemistry at the University of California, Santa Cruz, invite applications for a position at the Assistant Professor level. We are interested in outstanding candidates whose research centers on the application of NMR spectroscopy and/or X-ray crystallography to the study of RNA structure and function, including RNA-protein interactions. This person will be affiliated with the Center for the Molecular Biology of RNA and will complement existing faculty in both departments whose interests include RNA processing, translation, mRNA stability and structure, ribonucleoprotein assembly, RNA-protein recognition, the mechanism of action of functional RNAs and RNA structural studies. Department affiliation will be decided in consultation with the successful candidate. Research facilities include a Varian Unity Plus 500 MHz NMR spectrometer, X-ray diffraction facilities, and ancillary computational equipment. The successful candidate will be expected to mount a vigorous, externally funded research program, and contribute to teaching at the graduate and undergraduate levels.

Rank: Assistant Professor

Minimum qualifications: Ph.D. or equivalent in biology, chemistry, biochemistry, biophysics, or related field, postdoctoral research experience, and university teaching experience or demonstrated potential for university teaching.

Position available: Fall 1998, subject to final budgetary approval.

Apply to: Applicants should submit a curriculum vitae, a brief description of research and teaching interests, reprints, and arrange for three confidential letters of recommendation to be sent to:

RNA Search Committee
Department of Biology
225 Sinsheimer Laboratories
University of California
Santa Cruz, CA 95064
Website: <http://www.biology.ucsc.edu>

or <http://www.chemistry.ucsc.edu>

Please refer to Provision #269 in your reply.

Closing date: December 1, 1997.

UCSC is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF QUANTITATIVE ECOLOGY

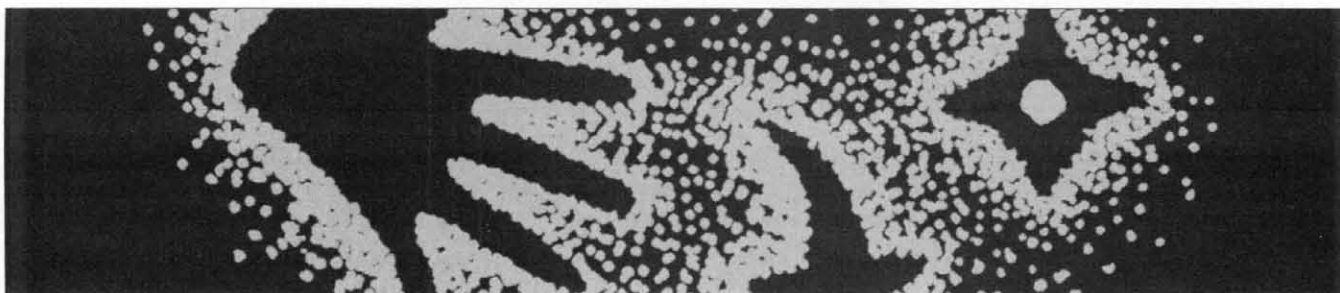
Tenure-track Assistant Professor position for fall 1998 for quantitative ecologist. Expectations: (1) Undergraduate teaching responsibilities, in addition to ecology, may include biometrics, modeling and simulation, and other courses. (2) Develop an active research program involving undergraduate students. (3) Advise students and participate in general departmental administration.

All applicants must have a Ph.D. in biology or related field and experience after the doctorate is desirable.

Send curriculum vitae, descriptions of teaching and research interests, reprints, copies of transcripts, and three letters of recommendation by 21 November 1997 to: Dr. Edwin J. Spicka, Biology Department, 1 College Circle, State University of New York, Geneseo, NY 14454. FAX: 716-245-5007. SUNY is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

ORNITHOLOGIST

The Department of Biological Sciences, University of North Carolina at Wilmington, welcomes applications for a tenure-track position at the ASSISTANT PROFESSOR level. A Ph.D. with postdoctoral experience in teaching and research is required. Primary responsibility is teaching undergraduate and graduate courses in ornithology, vertebrate natural history, and coastal ecology. The successful candidate is also expected to develop and maintain an externally funded, field-oriented research program involving coastal or marine birds. Send curriculum vitae, statement of teaching and research interests, graduate transcripts, and names of three references by 1 January 1998 to: Ornithologist Search Chair, Department of Biological Sciences, University of North Carolina at Wilmington, NC 28403-3297. Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.



Pharmacia & Upjohn is among the world's largest pharmaceutical companies. We are involved in areas such as Oncology and Infectious, Metabolic, Inflammatory and Central Nervous System Diseases to help people live longer and fuller lives. If you want to make a difference with Pharmacia & Upjohn, contact us.

Research in Sweden is focused on Metabolic Diseases. To our Pharmacology department we are now seeking two outstanding individuals to help build our vision and to lead our future growth in the area.

The primary function of the Pharmacology department is to study pharmacological systems *in vitro* and *in vivo* within the areas of endocrinology and metabolic diseases. The department is in an expansive phase and currently employs approx. 85 people.

Head of Functional Pharmacology

The successful applicant will be required to lead a group of about 50 people, whose main purpose is to study the primary effects of pharmaceutical substances *in vivo*. A large part of the research is also exploratory in nature.

You are an experienced leader, with a Ph.D. in pharmacology, medicine or equivalent. You have a strong track record of *in vivo* experimental research or medical research within the metabolic diseases area. Experience in pharmaceutical product development is a merit.

You will be assessed not only by your scientific qualifications but also by your leadership qualities.

For more information about this exciting opportunity, contact *Per-Göran Gillberg*, Head of Pharmacology, phone +46 18 16 40 60.
E-mail per-goran.gillberg@eu.pnu.com.
Ref no S96.66.

Pharmacologist – Diabetologist

You will actively participate in the progress of our diabetes research. Among the duties will be installation of experimental systems for mechanism and effect studies as well as scientific responsibility for planning, execution and reporting of studies. You will participate in various project groups as pharmacology representative.

You are a Ph.D. in pharmacology, medicine or equivalent, with a strong track record of experimental research in the diabetic field. Experience in pharmaceutical product development is a merit.

For more information please contact *Göran Selén*, phone +46 18 16 45 67.
E-mail: goran.selen@eu.pnu.com.
Ref no S97.39.

Please apply with a covering letter and current cv to *Lotta Hansing*, Pharmacia & Upjohn AB, S-112 87 Stockholm, quoting ref. no, before 7th November, 1997. E-mail: lotta.hansing@eu.pnu.com



**Pharmacia
& Upjohn**

POSITIONS OPEN

PENNSTATE



ASSISTANT PROFESSOR PLANT MOLECULAR EVOLUTION PENN STATE

The Department of Biology at The Pennsylvania State University invites applications for a tenure-track position in plant molecular evolution at the level of Assistant Professor. Penn State has made a commitment to expanding research and education in the biological sciences through a new, university-wide Life Sciences Consortium (see website: <http://www.lsc.psu.edu>), which is co-funding the position. We seek candidates who use molecular techniques to address issues of importance in speciation, phylogenetics, gene flow in natural populations, conservation genetics, and/or biodiversity. Penn State attracts outstanding graduate students and has internationally recognized faculty research groups in molecular evolutionary genetics and plant biology (see website: <http://www.bio.psu.edu>). The successful candidate must have a Ph.D. in biology, botany, plant sciences, or a related area, and will be expected to establish a vigorous, externally funded research program, and to participate in the department's commitment to quality undergraduate and graduate education. Please send a curriculum vitae, including list of publications, a statement of research and teaching interests, up to three reprints, and arrange to have three letters of recommendation sent to: **Chair, Plant Molecular Evolution Search Committee, Department of Biology, 208 Mueller Lab, Box N, The Pennsylvania State University, University Park, PA 16802.** The screening of applications will begin on December 15, and applications will be accepted until the position is filled. *An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

The Department of Pharmacology at the University of South Florida College of Medicine is seeking to fill a tenure-track position at the level of **ASSISTANT/ASSOCIATE PROFESSOR**, depending on experience. We are seeking an individual with a strong research emphasis on signal transduction mechanisms to establish an independent program as well as interface with ongoing programs in neuropharmacology and cardiovascular pharmacology. Applicants will be expected to participate in teaching medical and graduate students. Required qualifications for the Assistant Professor level include a Ph.D., a minimum of two years of experience and/or relevant postdoctoral experience. Required qualifications at the Associate Professor level are the required educational degree plus five years of experience at the Assistant Professor level. Please forward a letter, curriculum vitae, a brief statement of research interests, and the names of three references to: **Dr. Lynn Wecker, Department of Pharmacology and Therapeutics, 12901 Bruce B. Downs Boulevard, MDC Box 9, Tampa, FL 33612-4799.** Materials must be received no later than December 31, 1997.

USF is an Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodations, please contact: **Wanda Hinton at Telephone: 813-974-3823**, a minimum of five working days in advance.

ASSISTANT/ASSOCIATE PROFESSORS

The Department of Immunology and Infectious Diseases at the Harvard School of Public Health is seeking two junior faculty members at the level of Assistant and/or Associate Professor. The successful candidates will be expected to engage in a combination of research and teaching at the graduate level. Applicants should have a doctoral degree and evidence of postdoctoral research experience. The successful candidates will be expected to conduct research and teaching on infectious disease(s) of importance in tropical countries. Applicants should send a statement of research interests, curriculum vitae, and names and addresses of three references to:

Dr. Don Harn

**Chair, Search Committee for Junior Faculty
Department of Immunology and Infectious Diseases
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115**

Harvard University is committed to increasing the number of women and minorities in its faculty and especially encourages applications from such candidates.

POSITIONS OPEN

The Department of Chemistry of The University of British Columbia (UBC) is seeking to fill a tenure-track opening at the **ASSISTANT PROFESSOR** level starting 1 July 1998.

This appointment is in the area of synthetic organic chemistry.

This position requires a Ph.D. degree, postdoctoral experience preferably, and a proven research track record. The successful candidate will be expected to teach chemistry courses at the undergraduate and graduate level and to develop vigorous and creative research programs. The salary will be commensurate with experience.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. The position is subject to final budgetary approval and, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Applications should consist of a curriculum vitae, list of publications, summary of research interests, a detailed research proposal, and the names and addresses of at least three references. The applicants should arrange for the complete application to be sent to:

**Professor Larry Weiler
Chairperson, Future Appointments Committee
The University of British Columbia
Department of Chemistry
2036 Main Mall
Vancouver, British Columbia
V6T 1Z1 Canada**

Closing date for applications is December 1, 1997.

ASSISTANT PROFESSOR OF BIOCHEMISTRY PLANT MOLECULAR BIOLOGIST University of California, Riverside

The Department of Biochemistry invites applications for a tenure-track position of Assistant Professor of biochemistry. Salary commensurate with education and experience. Qualifications for the position include a strong potential for imaginative research in the area of plant molecular biology. Individuals whose scholarship is broadly in the areas of biochemistry/molecular genetics of signal transduction, regulation of gene expression, cell differentiation, or environmental stress response is strongly encouraged to apply. A strong commitment to teaching excellence in both undergraduate and graduate (M.S. and Ph.D.) instruction is required. The position also includes appointment in the Agricultural Experiment Station. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. Interested individuals should submit a curriculum vitae, bibliography (including three recent reprints), a brief (limit of 500 words) description of proposed research interests, and should request three to five original letters of reference be sent separately to: **Chair of Search Committee, Department of Biochemistry—015, University of California, Riverside, CA 92521-0129.** Applications may also be sent by e-mail: janet.fast@ucr.edu followed by a hard copy sent by mail. Evaluation of applications will begin December 7, 1997, but the position will be open until filled. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL BIOLOGY DEVELOPMENTAL, CELL, AND MOLECULAR BIOLOGY GROUP Duke University

We invite applications for a tenure-track position at the **ASSISTANT PROFESSOR** level from candidates investigating cellular and molecular mechanisms of development. The DCMB Group (website: www.botany.duke.edu/DCMB) is a consortium of faculty in the Departments of Botany and Zoology with common research and teaching interests. The appointment will be in the Department of Zoology, and the successful applicant will be encouraged to participate in interdepartmental graduate programs in cell/molecular biology and genetics.

Please submit a curriculum vitae, reprints, a statement of current and future research objectives, a statement of teaching interests, and arrange to have three letters of recommendation sent to:

**Developmental Biology Search Committee
DCMB Group**

**Room B349, Levine Science Research Center
Duke University, Durham, NC 27708-1000**

Review of applications will begin on December 1, 1997. *Duke University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR ANATOMICAL SCIENCES AND NEUROBIOLOGY

The department is seeking to fill a tenurable position at the level of Assistant Professor. The successful candidate will have a Ph.D. or M.D.-Ph.D., an independently funded research program, and teaching experience in histology or gross anatomy. Participation in the graduate student training program is expected. The department has 25 faculty, the majority of whom have a research interest in the neurosciences. This is an interactive group of investigators with research programs that encompass developmental neurobiology, molecular neuroscience, neurophysiology, and systems neuroscience. Other areas of research include trauma, muscle biology, and comparative anatomy. Substantial start-up packages and competitive salaries available. Opportunity for joint appointments with clinical departments. Send curriculum vitae, statement of research and career goals, list of current or proposed funding, and at least four letters of reference by February 1st to:

**Chair of the Search Committee
Department of Anatomical Sciences
and Neurobiology
University of Louisville School of Medicine
Louisville, KY 40292
E-mail: sghodg01@ulkyvm.louisville.edu**

The University of Louisville is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

PROFESSOR AND HEAD DEPARTMENT OF BIOLOGY

The University of North Carolina at Greensboro (UNCG) has reopened its search for the position of Professor and Head of the Department of Biology. UNCG is a comprehensive institution of over 12,000 students and more than 100 years of service. We seek an energetic academic leader who has a proven record of teaching and research in any biological discipline, and who has effective interpersonal skills and administrative abilities.

The Department offers varied Bachelor's and Master's degree programs, as described more fully on our website: www.uncg.edu/bio. This tenured position at the rank of Professor, with duties to begin 1 August 1998, will allow the successful candidate to make substantial contributions in promoting and supporting excellence in faculty teaching and research.

Applicants should send a curriculum vitae, the names and addresses of four references, and a letter describing your teaching interests, your research program, and the skills, vision, and administrative experience you would bring to this position, to:

**Biology Department Head Search Committee
University of North Carolina at Greensboro
Dean of Arts and Sciences Office, 105 Foust Building
Greensboro, NC 27412-5001**

Applications must be completed by 1 December 1997. *Equal Employment Opportunity/Affirmative Action. Women/Minorities/Veterans/Disabled.*

ECOLOGY

The Department of Biological Sciences at Louisiana State University, Baton Rouge, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level, available August 16, 1998. We currently have strong programs in aquatic (marine and freshwater) ecology and terrestrial plant ecology, and we seek an individual who can complement these programs. We encourage applicants whose research involves interactions at the level of population, community, or ecosystem, and particularly encourage those studying multiple-species relationships between major groups (e.g., plants, animals, fungi, and/or prokaryotes). The successful candidate will have a Ph.D. or equivalent degree and postdoctoral experience in ecology, biological sciences, or related field, and will be expected to develop a strong, funded research program, direct student research, and teach at the graduate and undergraduate levels.

Review of applications will begin December 5, 1997. The application, consisting of a curriculum vitae, statements of research and teaching interests, representative publications, and three letters of recommendation, should be sent to: **Ecology Search, c/o Dr. Kevin R. Carman, Department of Biological Sciences, 508 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803.** E-mail inquiries may be sent to: **e-mail: zocarm@lsu.edu**.

LSU is an Equal Opportunity Employer.

Bioinformatics *Research Scientists*

SmithKline Beecham Pharmaceuticals has one of the largest and most active bioinformatics departments in the industry. The department is geared towards genomics, the analysis of expressed sequences and the discovery of novel therapeutic and diagnostic reagents by developing and exploiting cutting edge computational methods, often in close collaboration with laboratory scientists. Because of the strategic value of advanced Bioinformatics techniques we are further expanding our world-class research team.

Particular areas of interest include sequence database search and analysis (including algorithmic, statistical and machine learning approaches), genetic mapping and genomics (including comparative genomics and the analysis of complex traits), inferring biological structure and function from sequence (including novel prediction and classification techniques) and knowledge management (including advanced database technology and knowledge representation).

Applicants should have a proven track record of research in computational molecular biology and should be able to work effectively in a collaborative research environment.

As a member of SB Bioinformatics you will be part of a team of scientists and software engineers with expertise in

databases, search algorithms and systems engineering. You will also have access to an exceptional distributed computing environment and cutting-edge software tools.

Posts are available in Philadelphia, USA and in Harlow in the UK.

Salary and benefits reflect the influential and growing contribution we expect you to make to our future and include bonus, pension and medical plans, share-matching scheme, profit-related pay, flexible working hours, subsidised restaurant and superb sports and social facilities.

If you believe that you could contribute to this exciting research area, please send your full career details, quoting the appropriate reference on both the letter and envelope, to the following:

For Philadelphia, USA: SmithKline Beecham Pharmaceuticals, Job Code A7100, PO Box 2645, Bala Cynwyd, PA 19004, USA.

For Harlow, UK: Ref. No. NB/SCS/43b - UK Recruitment Manager, SmithKline Beecham Pharmaceuticals, PO Box 192, Brentford, Middlesex TW8 9XB.

For more information on SmithKline Beecham, visit our website at <http://www.sb.com>

It is part of our fundamental philosophy at SmithKline Beecham that we recruit, train, develop, reward and promote persons in all job areas solely on the basis of qualifications, skills, abilities and aptitudes. Decisions based on race, colour, age, religion, sex, sexual orientation, disability, ethnicity or national origin are unacceptable to the Company.

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Research & Development

EUROPEAN CAREER OPPORTUNITIES



UNIVERSITY OF MANCHESTER
SCHOOL OF
BIOLOGICAL
SCIENCES

Physiology - Lectureship

Applications are invited for this new Lectureship in Biological Sciences (Physiology). Candidates with a strong research record in any area of Physiology are encouraged to apply - we would particularly welcome those with interests in renal physiology and/or membrane transport.

The post is tenable for 5 years in the first instance, and initial salary will be at a point on the Lecturer A/B scale (£16,045 - £27,985) appropriate to experience and qualifications.

Informal enquiries may be made to Professor A H Weston (Tel: 0161 275 5490, e-mail Arthur.Weston@man.ac.uk).

Application forms and an information pack are available from The Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester, M13 9PL, (Tel: 0161 275 2028, Fax: 0161 275 2221, Minicom: 0161 275 7889, e-mail: Personnel@man.ac.uk). Quote Ref: 603/97. Closing date for applications is Friday 21 November 1997.

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



AgrEvo Canada Inc.

Leading Canadian Agriculture into the Twenty-First Century.

As a result of rapid expansion, AgrEvo Canada Inc. a leader in crop production, plant protection and environmental health both in North America and the world, has an excellent opportunity for:

Manager - Biotechnology Research.

Responsibilities include the direction of a research group based in AgrEvo Canada Inc., Saskatoon, Saskatchewan Canada, which will be linked to a local Brassica oilseeds breeding team and forming part of a global biotechnology research team within AgrEvo/PGS.

Position assists in the development of global research objectives and the implementation of these objectives at the local research site and in providing technical expertise in the identification and assessment of emerging technologies in Canada and U.S.

Position requires a PhD and expertise in plant molecular and/or cell biology with an emphasis in plant biotechnology and 3-5 years experience in a scientific research role.

Experience in research project management preferred. Strong communication and interpersonal skills, as well as ability to participate in a global research environment, essential.



Submit resume and references to:
Human Resources Department
AgrEvo Canada Inc.
295 Henderson Drive
Regina, Saskatchewan S4N 6C2
Fax: 306.721.1844

POSITIONS OPEN

COMMUNITY/ECOSYSTEM ECOLOGIST UNIVERSITY OF NEBRASKA

The School of Biological Sciences and Natural Resources Sciences invites applications for a tenure-track faculty position in community/ecosystems at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Expertise in the role of nutrients in community and trophic dynamics among component populations, such as below-ground foodwebs or plant physiological ecology scaled at the community/ecosystem interface, is desired. Candidates will be expected to bring a vigorous research program and to assume teaching responsibilities in both undergraduate and graduate-level courses in ecology, environmental studies, and general biology. Scientists with a Ph.D. and postdoctoral experience may apply by sending a curriculum vitae, statements of research and teaching interests, and arrange for three letters of reference to be sent by November 30 to: **Ecology Search Committee Chair, School of Biological Sciences, 348 Manter Hall, University of Nebraska, Lincoln, NE 68588-0118**. The position will be open until a suitable candidate is selected. *The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under The Americans with Disabilities Act. Contact: Tony Joern at Telephone: 402-472-2724 for assistance.*

CHAIR, DEPARTMENT OF NEUROSCIENCES CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

The School of Medicine at Case Western Reserve University invites applications for the position of Chair of the Department of Neurosciences. The Department was formed in 1989, and now has 12 primary faculty (two additional faculty are being recruited), with particular excellence in developmental neurobiology and in neural plasticity. In 1996, the Department ranked sixth in the nation for NIH grant support (the School of Medicine ranked tenth). For additional information, visit the Department's website: <http://neurowww.cwru.edu>. This is an exceptional opportunity to take a leadership role in a respected, thriving, and growing Department. If you wish to be considered as a candidate, please send a curriculum vitae to: **Dennis M. D. Landis, M.D., Chair, Search Committee for Neurosciences, Departments of Neurology and Neurosciences, School of Medicine E-604, Case Western Reserve University, Cleveland, OH 44106. Telephone: 216-844-3193; FAX: 216-844-5066; e-mail: ddl@po.cwru.edu.** *Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer; applications are encouraged from members of underrepresented groups.*

X-RAY CRYSTALLOGRAPHY, ASSISTANT OR ASSOCIATE PROFESSOR, tenure-track. The new Center for Pharmaceutical Biotechnology invites applications in protein X-ray crystallography. Ph.D. and postdoctoral experience required. Responsibilities include developing a strong, externally funded research program, and teaching in graduate and professional programs. Successful candidate will have appointments within the Center and a College basic science department, and extensive collaborative opportunities in a major health sciences center. Forward curriculum vitae, description of research interests, and three reference letters to: **Dr. M. Johnson, Director, Center for Pharmaceutical Biotechnology, College of Pharmacy, University of Illinois at Chicago, Molecular Biology Research Building, 900 South Ashland—m/c 870, Chicago, IL 60607-7173**. For fullest consideration, submit full application by 31 October 1997. *Affirmative Action/Equal Opportunity Employer.*

YALE UNIVERSITY DEPARTMENT OF CHEMISTRY

The Department of Chemistry, Yale University, invites applications for a position at the **ASSISTANT PROFESSOR** level to commence fall 1998. We seek creative teacher-scholars who show promise for developing outstanding research programs in the broad fields of inorganic, theoretical, and biophysical chemistry. Applicants should send curriculum vitae and a statement of research plans and arrange for the submission of three letters of recommendation. All materials should be received by 1 December 1997. Send applications to: **Professor Donald M. Crothers, Chair, Junior Faculty Search Committee, P.O. Box 208107, Yale University, New Haven, CT 06520-8107.** *Yale University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT RESEARCH SCIENTIST THE UNIVERSITY OF IOWA Department of Anatomy and Cell Biology

To perform basic research studying the mechanisms of cystic fibrosis airway disease pathophysiology. Requires a Ph.D. degree in the biological sciences or the equivalent. Evidence of designing experiments to address mechanisms of CFTR facilitated ATP transport in xenopus oocytes and animal models is necessary. Experience as evidenced by publications, abstracts, posters, etc., in the areas of oocyte microinjection, two electrode voltage measurements in oocytes, and cDNA library screening is desired. Refer résumé to: **George McHenry, Administrator, The University of Iowa, Iowa City, IA 52242-1109. Telephone: 319-335-7756.** *The University of Iowa is an Equal Employment Opportunity and Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

TWO ASSISTANT PROFESSORS

MICROBIOLOGIST/MOLECULAR BIOLOGIST AND COMPARATIVE PHYSIOLOGIST. Both tenure-track positions to begin fall 1998; areas of specialization open. Successful applicants must have a Ph.D., postdoctoral experience, a commitment to undergraduate and graduate education, and a demonstrated potential to establish an independent, externally funded research program. Salary and start-up funds will be competitive with peer institutions.

The University of Tulsa is a comprehensive, private university. The Faculty of Biological Science offers degrees at the B.S., M.S., and Ph.D. levels. Review of applications will begin December 1, 1997, and continue until the positions are filled. Applicants should submit a curriculum vitae, a statement of teaching and research interests, several recent reprints, and arrange to have three letters of recommendation sent to: **Microbiologist/Molecular Biologist or Comparative Physiologist Search Committee, Faculty of Biological Science, The University of Tulsa, 600 South College Avenue, Tulsa, OK 74104-3189. Website: <http://bio37.utulsa.edu/biology.html>.**

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

VERTEBRATE BIOLOGIST. Regis University Department of Biology has a tenure-track **ASSISTANT PROFESSOR** position beginning fall 1998. Primary responsibility is organismic biology, an introductory course for biology majors. Advanced course opportunities include: developmental biology, comparative vertebrate anatomy, physiology, or a topic of applicant's interest. Because the primary emphasis is teaching, the applicant should have a strong commitment to and enthusiasm for undergraduate education, although development of an active research program involving students would be encouraged. A Ph.D. is required, with broadly based training in vertebrate morphology; postdoctoral experience is desirable, as well as teaching experience at the undergraduate level. Send curriculum vitae, research interests, indications of prospective course offerings, plus three letters of reference by December 8 to: **Dr. Joan Betz, c/o the Dean's Office E-24, Regis University, Denver, CO 80221.** *The Jesuit mission of Regis University emphasizes leadership in the service of others. Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF BIOLOGY

Full-time, tenure-track position; begins fall term, 1998. Teach junior-level genetics course (classical and molecular) with lab, and a course in area of specialty. Participate in teaching introductory biology or an interdisciplinary course in Science In Context Program. Conduct active research involving undergraduates. Ph.D., and commitment to liberal arts education required. Postdoctoral research and previous undergraduate teaching experience desirable. We prefer applicants with teaching and research interests in the molecular genetics of model eukaryotic organisms or cell line systems and who are studying current problems in immunology, developmental biology, or cell biology. Submit statement of teaching philosophy (including specific courses qualified to teach), statement of research interests, curriculum vitae, and three professional references to: **Biology Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98407.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF PATHOLOGY MOREHOUSE SCHOOL OF MEDICINE

Morehouse School of Medicine seeks a Chairperson to provide leadership for the Department of Pathology. The mission of the school is to train primary care physicians to serve underserved urban and rural populations. Although the primary activity of the department is the teaching of pathology to second-year students, research, administrative, and clinic service are also major activities of the department. The applicant should have the necessary experience and skill to provide leadership in all four of these areas. Application will be received via nominations or letter of interest with a curriculum vitae and three supporting letters of reference. Application should be directed to:

David R. Mann, Ph.D.
Professor, Department of Physiology
Chair, Pathology Chairperson Search Committee
Morehouse School of Medicine
720 Westview Drive, S.W.
Atlanta, GA 30310-1495

Underrepresented minorities and women are particularly encouraged to apply.

CELLULAR ENDOCRINOLOGIST. University of Arizona, The Department of Physiology is seeking a tenure-track **ASSISTANT PROFESSOR** with research expertise in endocrinology, using molecular biology techniques. Preference will be given to candidates whose research interests will complement the existing departmental strengths in female reproduction and metabolism. Two years of postdoctoral experience is required and candidates must document their potential to develop an independent research program. Teaching responsibilities will include formal lectures on cellular and systems endocrinology, and participation in a University-wide Ph.D. Program in the Physiological Sciences. Please reference Job #997068. Submit curriculum vitae, a statement of research and teaching interests, and the names of three references willing to supply letters of support to: **Dr. Patricia B. Hoyer, Cellular Endocrinologist Search Committee, Department of Physiology, University of Arizona, Tucson, AZ 85724-5051.** Review of applications will begin December 15, 1997; however they will be accepted until the position is filled. Human Resources website: <http://w3.arizona.edu/~ahschjr/jobs.htm>. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer, Minorities/Women/Disabled/Veterans.*

VERTEBRATE BIOLOGY

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 which would prepare one to teach undergraduate courses in comparative anatomy, general physiology lab, and general biology required. Applications should demonstrate interest as well as competence in teaching and undergraduate biology majors and non-majors. Successful applicant will be expected to maintain a research program which will include participation by undergraduates. 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 December 12, 1997. *State University of New York at Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

The Neurophysiology Research Laboratory of the Evanston Northwestern Healthcare Research Institute seeks a **RESEARCH ASSISTANT PROFESSOR** to expand an existing program focused on development and synaptic plasticity in hippocampal dentate gyrus. Applicants should possess a Ph.D. and at least two years of postdoctoral experience in cellular neurophysiology, demonstrated expertise in slice patch clamp technology, and excellent oral and written communication skills. Competitive salary commensurate with experience. Opportunity to participate in laboratory supervision and experimental planning. Submit curriculum vitae, three letters of recommendation, and two research papers representative of principal scientific effort to: **Barbara L. Trommer, M.D., Director, Neurophysiology Research Laboratory, Evanston Hospital, Evanston Northwestern Healthcare Research Institute, Room 315 Burch Hall, 2650 Ridge Avenue, Evanston, IL 60201. E-mail: btrommer@nwu.edu.**



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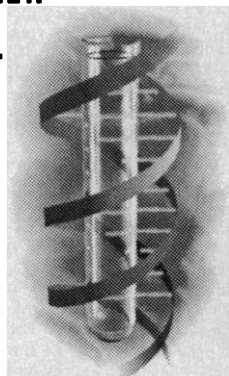
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Harvard Institute of Chemistry and Cell Biology

Institute Fellows

Three Institute Fellows are sought for the Harvard Institute of Chemistry and Cell Biology (ICCB), a new Institute based at Harvard Medical School. ICCB will lead the way in developing the new field of "chemical genetics"—a general approach to activating or inactivating protein function using small molecules. At ICCB, chemists and biologists will work collaboratively in a team-based environment to address the component parts of this problem: designing split-pool syntheses of natural-product-like molecules, creative approaches to discovering biologically interesting ligands and novel ways to identify and study their targets. Institute Fellows will be encouraged to develop independent research programs within the context of the overall goals of the Institute, and will be expected to act as team leaders for relevant Institute projects.

The successful candidates for these challenging positions will have a genuine desire to apply the techniques of chemistry to the study of biology, and will have a PhD or equivalent. We seek exceptional individuals with backgrounds in areas such as synthetic organic chemistry, cell and molecular biology and bioinformatics, who have a demonstrated ability to innovate. Experience in technologies relevant to high-throughput screening (such as imaging, robotics and fluidics) would be welcome.

Faculty at the Institute include Professors E.N. Jacobsen, M.W. Kirschner, T.J. Mitchison, S.L. Schreiber, M.D. Shair and G.L. Verdine. Post-doctoral fellowships are also available.

Send a CV, a brief statement of research accomplishments and goals, and the names and addresses of three referees to:

Professors Stuart L. Schreiber and Tim Mitchison
Institute of Chemistry and Cell Biology
Fellowship Application
Harvard Medical School
240 Longwood Ave, C-517
Boston, MA 02115-5730

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSORSHIPS

The Joseph P. Kennedy, Jr. Mental Retardation Research Center in the Department of Pediatrics at the University of Chicago is accepting applications for two tenure-track faculty appointments at the **ASSISTANT PROFESSOR** level. A doctorate and evidence of ability to carry out independent research in either (1) developmental neurobiology or (2) mammalian molecular genetics is required. Successful candidates will be expected to develop a strong research program supported by outside funding and to participate in group-oriented funding opportunities. Faculty will have the opportunity to train students through degree-granting committees and to participate in teaching at both the undergraduate and graduate levels.

To apply, send letters of application, curriculum vitae, statement of research accomplishments and interests, and the names and addresses of three references to: **Director, c/o Ms. J. Corey, Department of Pediatrics, MC 5058, 5841 South Maryland Avenue, University of Chicago, Chicago, IL 60637.** The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Department of Internal Medicine and the Simmons Arthritis Research Center at The University of Texas Southwestern Medical Center at Dallas invite applications for a tenure-track Assistant Professorship. Candidates must hold the degree of Ph.D. and/or M.D. and have a minimum of three years of postdoctoral research experience. The candidate's research should complement the Center's existing strengths in molecular immunology and structural biology. We encourage applications from individuals who will develop strong, independent research programs in any area of molecular immunology, but who are also interested in an exchange of ideas and information among scientists taking diverse approaches to studying the normal immune system and its dysfunction in disease. Applicants should send a curriculum vitae, statement of research accomplishments and plans, and three letters of reference to: **Peter Lipsky, M.D., Director, Simmons Arthritis Research Center, UT Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75235-8884.**

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CONSERVATION GENETICS

The Department of Biology, University of Miami, invites applicants for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. We are looking for an individual who uses molecular techniques to address questions in the area of population biology with relevance to theoretical and empirical issues in conservation. Our Department has strength in the areas of ecology, behavior, evolution, and tropical biology. The successful candidate is expected to develop a vigorous, externally funded research program, and to participate in teaching at the undergraduate and graduate levels. Postdoctoral experience is preferred. Applicants should send curriculum vitae, appropriate reprints, summary of research interests, and arrange to have three letters of reference sent to: **Conservation Genetics Search, Ken Spitzer, Ph.D., University of Miami, Department of Biology, P.O. Box 249118, Coral Gables, FL 33124-0421.** Review of applicants will begin on December 1, 1997. The University of Miami is an Equal Opportunity/Affirmative Action Employer and smoke/drug-free workplace. Women and minorities are encouraged to apply.

MARINE INVERTEBRATE ECOLOGICAL PHYSIOLOGIST UNIVERSITY OF FLORIDA

Applications are invited for a 12-month, tenure-track faculty position at the **ASSISTANT PROFESSOR** level. A Ph.D. in a biological discipline and expertise in benthic marine invertebrates is required. The successful applicant will be expected to develop a vigorous research program dealing with nearshore marine benthic invertebrates, with special emphasis on coastal processes that affect natural and/or cultured populations. He/she will also be expected to teach a graduate-level course in the field. Send a letter of application, curriculum vitae, and the names, addresses, and telephone numbers of five references by January 3, 1997, to: **Invertebrate Position, Department of Fisheries and Aquatic Sciences, University of Florida, 7922 N.W. 71st Street, Gainesville, FL 32653.** An Equal Opportunity/Affirmative Action Institution.

POSITIONS OPEN

THREE FACULTY POSITIONS WESTERN OREGON UNIVERSITY

The Biology Department seeks applicants for three tenure-track **ASSISTANT PROFESSORS**. College/university teaching experience preferred. Salary commensurate with experience, excellent benefits. Start date: September 16, 1998. (1) Ph.D. in invertebrate zoology with emphasis in marine biology required. Teach courses in marine biology, invertebrate zoology, entomology, introductory biology for majors and non-majors. (2) Ph.D. in biology required. Teach courses in animal physiology, biochemistry, human anatomy and physiology, histology, introductory biology for majors and non-majors. (3) Ph.D. in botany required. Teach courses in systematic field botany, plant anatomy, plant propagation, introductory biology for majors and non-majors.

Application: send application letter, curriculum vitae, three letters of recommendation, and graduate transcripts by December 15, 1997, to: **Dr. Arlene Courtney, Chair, Natural Sciences and Mathematics Division, Western Oregon University, Monmouth, OR 97361. Telephone: 503-838-8206; e-mail: courtne@wou.edu.** Affirmative Action/Equal Opportunity Employer.

Applications are invited for a **TENURE-TRACK** position at the **ASSISTANT PROFESSOR** level. Applicants should have two or more years of postdoctoral experience and should have the potential for establishing an active, externally funded research program. Interest and excellence in teaching are expected. The Stanley S. Scott Cancer Center, the Molecular and Human Genetics Center, the Neuroscience Center, and the Alcohol and Drug Abuse Center are integral components of the University. The professional schools of the Medical Center include those of Allied Health, Dentistry, Graduate Studies, Medicine, and Nursing. The Department can be visited through our home page at **website: http://www.lsumc.edu/campus/bioc/**. Interested individuals should send a curriculum vitae with a bibliography, a short (three-page) summary of planned research and the names and addresses of three references to the following: **Robert Roskoski, Jr., Fred G. Brazda Professor and Head, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1100 Florida Avenue, New Orleans, LA 70019-2799.** Louisiana State University Medical Center is an Equal Employment Opportunity/Affirmative Action Employer.

NEUROBIOLOGIST/NEUROETHOLOGIST

The Department of Zoology at the University of Washington is seeking applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Although applicants in any area of neurobiology will be considered, those using neurophysiological or molecular approaches to study the neural basis of behavior, particularly in marine organisms, are especially encouraged. Successful candidates will be expected to contribute to undergraduate and graduate teaching, and to establish an externally funded research program. Candidates should have a Ph.D., and at least one year of postdoctoral experience by start of appointment. Send curriculum vitae, a description of research and teaching interests, and three letters of recommendation to: **Chair, Neurobiology Search Committee, Department of Zoology, University of Washington, Seattle, WA 98195-1800.** Priority will be given to applications received before January 5, 1998. The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.

University of South Carolina seeks applications from **EXPERIMENTAL PHYSICAL CHEMISTS** for a tenure-track position to begin August 1998 or January 1999. Preferred level of appointment is at the rank of **ASSISTANT PROFESSOR**, but applications for a more **SENIOR** appointment will be considered. We are especially interested in applicants whose research involves polymers, surface science, and/or interfaces. Ph.D. required; postdoctoral experience preferred. The successful candidate will be expected to establish a vigorous research program that will attract outside funding and to teach students at both the undergraduate and graduate levels. Applicants should send a curriculum vitae and a detailed description of research plans and arrange for three letters of recommendation to be sent to: **Professor B. M. Gimarc, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208.** Review of applications will begin November 15, 1997. Visit our **website: http://www/cosm.sc.edu/chem.** The University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

POSITIONS OPEN

POPULATION GENETICIST/ EVOLUTIONARY BIOLOGIST

Tenure-track **ASSISTANT PROFESSOR** position starting August, 1998. Ph.D. required. Teaching and postdoctoral research experience desirable. The successful candidate will participate in undergraduate courses in introductory biology and genetics and contribute to university-wide programs. The appointee will join a biology faculty deeply involved in creating a strong, research-oriented program for upper-class undergraduate students, and will contribute to this effort. Applications are especially encouraged from candidates whose research focuses on population genetics and evolutionary biology using molecular techniques. Please forward a letter of application with curriculum vitae, transcripts, a statement of teaching and research interests, and arrange to have three letters of recommendation sent by December 1, 1997, to: **Dr. Robert Arnold, Chair, Department of Biology, Colgate University, Hamilton, NY 13346-1398. Website: http://www.2.colgate.edu/departments/biology.**

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

CORNELL UNIVERSITY ASSISTANT PROFESSOR IN ASTRONOMY

The Department of Astronomy, Cornell University invites applications for a tenure-track position at the Assistant Professor level to begin as soon as July 1, 1998. Cornell's Astronomy Department enjoys active research programs in theoretical astrophysics, radio astronomy, planetary science, and infrared/optical astronomy. We are primarily seeking candidates with interest in experimental/observational astronomy, but exceptional candidates in other areas of astronomy will be considered.

Applicants should send a curriculum vitae, list of publications, statement of research interests, and the names and addresses of at least three people who would be willing to act as references to: **Yervant Terzian, Department of Astronomy, 512 Space Sciences Building, Cornell University, Ithaca, NY 14853.** Applications received by January 31, 1998, will receive initial consideration, but candidates will be considered until the position is filled.

Cornell University is an Affirmative Action/Equal Opportunity Employer.

ECOLOGY AND FIELD BIOLOGY

The State University of New York at Potsdam invites applications for an **ASSISTANT PROFESSOR** of ecology and field biology. Qualifications are a Ph.D. in an area of biology which would prepare one to teach undergraduate courses in ecology, field biology, and general biology required. Applications should demonstrate interest as well as competence in teaching undergraduate biology majors and non-majors. The successful applicant will be expected to maintain a research program which will include participation by undergraduates. Send a letter of application, curriculum vitae, graduate transcript, and three letters of reference to: **Dr. Albert Robinson, Chair, Department of Biology, SUNY Potsdam, Potsdam, NY 13676.** Application deadline is December 12, 1997. State University of New York at Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

COGNITIVE NEUROSCIENTIST

The Psychology Department at the University of Missouri has an opening for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. We have optical neuroimaging facilities, cognitive and electrophysiological laboratories, and an on-campus hospital with fMRI under construction. Submit curriculum vitae, letter with interests, reprints, and three reference letters to: **Cognitive Neuroscience Search, Psychology Department, University of Missouri, 210 McAlester Hall, Columbia, MO 65211. E-mail: psyecowan@showme.missouri.edu.** The University is an Affirmative Action Employer.

The Department of Pathology, Case Western Reserve University, invites applicants for a non-tenure-track **INSTRUCTORSHIP** position to do research on the immunological properties of $\gamma\delta$ and CD8⁺ T cells. Applicants must be broadly trained in the techniques of both cellular and molecular biology, have relevant publications, and preferably have a working knowledge in the field of infectious diseases. Send curriculum vitae, research interests and plans, along with names of three references to: **M. L. Tykocinski, M.D., Department of Pathology, Case Western Reserve University, 13000 Euclid Avenue, Cleveland, OH 44106-2602.** Affirmative Action/Equal Opportunity Employer.



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Framingham, MA Location

STAFF SCIENTIST

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Send inquiries or applications to Dr. Shigeaki Harayama (phone:+81-193-26-6544, FAX:+81-193-26-6592, e-mail:harayama@kamaishi.mbio.co.jp) or Dr. Tadashi Maruyama (phone:+81-193-26-5814, FAX:+81-193-26-6584, e-mail:tmaruyama@kamaishi.mbio.co.jp)

SHIMIZU INSTITUTE (1900 Sodeshi, Shimizu, Shizuoka 424, Japan)

- (1) Isolation and characterization of novel marine bacteria.
- (2) Molecular biology and pharmacological characterization of biogenic amine receptors of marine organisms.
- (3) Isolation of biologically active natural products from marine organisms.

Send inquiries or applications to Dr. Yoshikazu Shizuri (phone:+81-543-66-9211, FAX:+81-543-66-9256, e-mail:yshizuri@shimizu.mbio.co.jp).

Candidates should send their curriculum vitae, a statement of research interests and two or more letters of references by December 31, 1997.

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Medium-sized diversified biotechnology and medical services corporation seeks Division Director to develop and implement manufacturing of DNA-based diagnostic kits, DNA probes and supporting reagents for the detection and molecular characterization of genetic disease. The successful candidate will have a Ph.D. or equivalent degree with knowledge of nucleic acid techniques, including DNA probe technology, PCR, and fluorescence *in situ* hybridization technologies as well as experience in the conversion of molecular procedures and support reagents into reliable manufacturing processes. A detailed knowledge of GMP/ISO 9001 regulatory requirements will be useful. Mid-Atlantic region. Excellent compensation and benefits.

Send resume in confidence to:

SCIENCE
Box 77
1200 New York Ave., NW
Washington, D.C. 20005

DIRECTOR, CONTRACT RESEARCH

A diversified, mid-sized company with exceptional laboratory and clinical facilities seeks a leader to direct its Contract Research activities.

The successful candidate must have a proven understanding of market needs and opportunities especially in the fields of genomics and genetics, experience with design and management of trials for the pharmaceutical/biotechnology industry, strong initiative, and excellent interpersonal and communication skills. A Ph.D. in the biological sciences is preferred, but not required.

Excellent salary and benefits; suburban, mid-Atlantic location.

Please send resume and accompanying materials in confidence to:

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Box 78
1200 New York Ave., NW
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Laboratory

Sr. Technician/ Biochemistry Research

United States Surgical Corporation is a billion dollar design leader and renowned innovator of surgical staplers, sutures, and laparoscopic devices. We have an exceptional position available at our North Haven, CT facility.

Under the supervision of a Biochemistry Staff Scientist, you will perform organic synthesis, polymer formulation, and assist in the maintenance of a chemistry lab. You will also coordinate joint experiments with internal and external research groups to create new or modify existing polymer implants. This is a new effort by USSC to optimize the interface between synthetic materials and living tissues.

To qualify you must possess a Master's Degree in Polymer Science or Organic Chemistry with an emphasis on organic synthesis. Cell culture experience a plus.

We provide an excellent salary, a matching 401(K) program, employee stock purchase program, tuition reimbursement, and non-contributing health care including dental and vision. For immediate and confidential consideration, send/FAX resume, to: AD/TBR-Human Resources, United States Surgical Corporation, 195 McDermott Road, North Haven, CT 06473. FAX #: (203) 492-8226. For additional information on USSC and our products, please review our web site at: <http://www.ussurg.com>. We are an equal opportunity employer M/F/D/V.



United States Surgical Corporation



Fellowships in Molecular Biology

The Molecular Biology Program at the University of Missouri-Columbia is accepting applications for graduate and postdoctoral fellowships. At MU, the Molecular Biology Program cultivates the use of molecular biology in 24 academic areas of basic research housed within five separate MU colleges.

The Program's multidisciplinary nature gives breadth to MU's research as well as depth in particular areas of excellence. Our faculty are drawn from departments such as Biochemistry, Biological Sciences, Molecular Microbiology and Immunology, Pharmacology, Plant Pathology, Physiology, and Veterinary Pathobiology.

Four-year graduate awards are \$16,000 per year, plus full tuition and fee waivers. Postdoctoral fellowships are competitive two-year awards of \$24,000 per year. For more information about the Molecular Biology Program, contact our web site at www.missouri.edu/~mbp/. For application information, call 573/882-2816 or email asmolinski@biosci.mbp.missouri.edu

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HEAD OF GENETICS

We are looking for an experienced senior-level Scientist/Manager to recruit and build a program in disease and pharmacogenetics. The Head of Genetics will define the program goals and strategy, define protocols, identify and secure samples, execute screens, direct analysis, and help to push the leading edge of the next major development in genetics.

The successful candidate will have a Ph.D. in Biology, Genetics, or a related field and at least 4-5 years' experience in the design and implementation of large-scale studies. Demonstrated experience building and managing a team in a multidisciplinary environment is necessary, as are excellent communication skills. Specific experience in a commercial setting is desirable. Job Code HG000

POSTDOCTORAL SCIENTIST

A postdoctoral position is available in the Cancer Biology group to study the molecular basis of tumor growth and development. This individual will utilize DNA array technology developed at Affymetrix to focus on novel genes and pathways. The successful candidate will be a highly motivated individual with a strong publication record and expertise in molecular approaches to the study of cell growth and differentiation. Experience with *in vivo* mouse biology is desirable. Job Code DM157

Offering a small company atmosphere with big scientific potential, Affymetrix provides attractive salaries, comprehensive benefits, and the exhilarating synergy of our world-class multidisciplinary team. For consideration, please send or fax your resume to **Affymetrix, Human Resources, 3380 Central Expressway, Santa Clara, CA 95051; Fax (408) 481-0422.** We are an equal opportunity employer.



TENURE-TRACK POSITION DEPARTMENT OF MOLECULAR GENETICS THE UNIVERSITY OF TEXAS M. D. ANDERSON CANCER CENTER

Applications are encouraged for a tenure-track position at the Assistant or Associate Professor level. We are seeking individuals with broad research interests in areas that will complement existing faculty research interests. These include, but are not limited to, cell cycle regulation, molecular and genetic mechanisms involved in gene regulation and cellular differentiation, cell-cell interactions, and regulation of signal transduction pathways. Emphasis will be on individuals utilizing eukaryotic genetic models to address these problems. Interested individuals should send a curriculum vitae with a summary of research plans and the names and addresses of three references by December 15, 1997, to:

**Dr. Benoit de Crombrughe,
Chairperson
Department of Molecular Genetics
Box 11
The University of Texas
M. D. Anderson Cancer Center
1515 Holcombe Blvd.
Houston, TX 77030**

*Women and minorities are
encouraged to apply*

NEUROCRINE BIOSCIENCES, located in La Jolla, California, is a leading biopharmaceutical company engaged in the discovery of important new therapies to treat the serious diseases and disorders of the central nervous and immune systems.

ASSAY DEVELOPMENT SCIENTIST High Throughput Screening

Develop assays for screening and set up bench assays using various formats and technologies. Carry out automated assay formatting and validation studies and perform data analysis and confirmatory follow-up assays. A PhD in Biochemistry or Biochemical Pharmacology with 2-3 years' experience in the biotechnology/pharmaceutical industry, including familiarity with assay development, required. Automation experience, particularly in formatting bench assays to robotics systems, is preferred. REF: RMI.

RESEARCH SCIENTIST

Responsibilities include the isolation and characterization of genes and the evaluation of their potential as drug development targets. Requires a PhD with 3+ years' postdoctoral experience, including a background in molecular biology. Ability to conduct creative and independent research is essential. Experience in neuroscience is preferred. REF: RM.

RESEARCH SCIENTIST

Working in the Immunology Department, you will investigate mechanisms regulating the development of autoimmune diseases and inflammatory responses and expand current *in vivo* models. Requires a PhD (or equivalent) in Biology, Inflammation or Immunology and a broad interest in neuroimmunological interactions. REF: PC.

We offer a competitive salary, comprehensive benefits, and a challenging scientific environment. Please submit your CV along with the names and phone numbers of three references to: Neurocrine Biosciences, Human Resources Department, REF: ___, 3050 Science Park Road, San Diego, CA 92121-1102 or FAX (619) 658-7602. EOE.



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SCIENTIST

The chosen team player will provide intellectual leadership in a large multi-departmental program in Matrix Metalloproteases and initiate cloning, crystallization and mechanism studies. A Ph.D. in Biochemistry with 2 years postdoctoral experience in molecular biology and biochemistry involving protein expression, mechanistic enzymology and inhibitor design and discovery are required.

Job Code: RJB-97356

SENIOR ASSISTANT SCIENTIST

The candidate for this position should have experience in enzyme kinetics and assays as well as molecular biology including cloning and PCR. Some experience in cell culture and cell based assays would be helpful. An MS/BS/BA degree in a scientific area along with experience in biochemistry is essential. **Job Code: CJM-97329**

POSTDOCTORAL FELLOWSHIP PATHOLOGY & EXPERIMENTAL TOXICOLOGY

This is a great opportunity to join our innovative research staff to study the role of the mitochondrial genome in basic mechanisms of toxicity. In this capacity, you'll investigate various age-related changes in mitochondrial function and ascertain the susceptibility of the organelle to various toxicants. In addition, you'll study the ability of chemical compounds to induce mutations in the mitochondrial genome and determine the effects of these changes on health and survival. Qualifications include a Ph.D. in Toxicology, Biochemistry, Cellular Biology or related field, laboratory experience in molecular biology and superior written and verbal communication skills. Familiarity with mitochondrial genetics and function and/or experience with confocal microscopy and the use of fluorescent probes is desirable. **Job Code: RJB-974138**

If you're highly motivated in scientific research, mail, fax or e-mail your resume*, indicating the Job Code of interest, to: **Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: resume@aa.wl.com**

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

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Research Hospital**

ALSAC - Danny Thomas, Founder

Senior Research Technician Oncogenes, Tumor Suppressors and Apoptosis

St. Jude Children's Research Hospital has an opening for a Senior Research Technician in the Department of Biochemistry, to participate in the investigation of the role of p53 in tumorigenesis, cell cycle control and programmed cell death. The ideal candidate possesses a strong background in molecular biology and/or biochemistry. For consideration, send CV and three (3) references, to:

**Kathleen Speck
Human Resources
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38101-2794
Fax: 901-495-3123
E-mail: kathleen.speck@stjude.org**

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CELLULAR OR SYSTEMS NEUROSCIENTIST

The Department of Neurobiology & Behavior is seeking candidates for a tenure-track faculty appointment. The successful candidate will be expected to develop and maintain a productive research program and to participate in Department teaching. We are particularly interested in candidates whose research is directed at problems of neural circuitry, such as the functional organization of cortex. The Department currently consists of 20 faculty members with active research programs in a broad range of areas within neuroscience. In addition, an interdepartmental Graduate Program in Neurobiology & Behavior with 44 members facilitates interactions among neuroscientists campus wide.

Applicants should have a minimum of two years postdoctoral experience. Appropriate space and start-up funds will be provided.

Applicants should submit a curriculum vitae, a statement of research interests, and the names and addresses of at least three references to: Faculty Search Committee, Department of Neurobiology & Behavior, State University of New York, Stony Brook, NY 11794-5230. Applications should be received by 10 December 1997 for full consideration.

For further information about the department, University and area, contact our WWW site at: <http://www.neurobio.sunysb.edu/facrecruit.html>
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We are seeking to hire a Research Biologist (A) and Physics Postdoc (B) to exploit a powerful new tool for 30-80 nm resolution 2D and 3D imaging, and biochemical mapping of frozen-hydrated, unsectioned cells at the NSLS at Brookhaven.

(A) The ideal candidate with a PhD and 2+ years postdoc experience in the biological sciences would establish his or her own research program in a longer term position (\$32-36K/yr, contingent upon funding). We encourage collaboration with a biological lab at Stony Brook, Brookhaven, or Cold Spring Harbor.

(B) We seek a postdoc for further development of microscope optics and instrumentation for cryo microscopy and for other application.

See <http://xray1.physics.sunysb.edu> and contact Professor Chris Jacobsen, Department of Physics, SUNY Stony Brook, Stony Brook, NY 11794-3800, USA.

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**STONY
BROOK**
STATE UNIVERSITY OF NEW YORK

ASSISTANT PROFESSOR OF NEUROBIOLOGY

MIT is seeking a neurobiologist for the Center for Learning and Memory,

with a faculty appointment in the Department of Brain and Cognitive Sciences.

The area of interest is broad, but we are particularly interested in candidates who are studying mechanisms of synaptic function, modulation, or development.

Applicants should have significant research accomplishments, the ability to establish and maintain a vigorous research program and a commitment to excellence in education at the undergraduate and graduate levels.

Applicants should submit a curriculum vitae and a summary of current and proposed research work, and should arrange to have three letters of recommendation sent to: Chair, Neurobiology Search Committee, Department of Brain & Cognitive Sciences, E25-406, 77 Massachusetts Ave., Cambridge, MA 02139-4307. Applications will be considered as soon as they are complete and letters of recommendation have been received. Qualified women and minority candidates are especially encouraged to apply.



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Support for Research in Functional Genomics

The Merck Genome Research Institute is a not-for-profit organization which has been funding projects since 1996. The MGRI was established to support the development of sequence to function research technology. The focus of the Institute is to encourage and, where appropriate, sponsor projects which enable scientists to develop assays and methodologies which can be applied broadly across genomics research with the objective of improving the accuracy and speed in which functional associations can be made with sequences of genetic information. The development of methods which tend to accelerate predictions of gene function independent of linkage is a high priority. A variety of model systems (i.e., bacteria, yeast, mice, and *Drosophila*) analytic methods may be employed.

To accomplish this mission MGRI seeks to support research in the areas of: Bioinformatics; Development of Disease Models and Gene Expression/Function Assays; Merck Gene Index Accelerated Gene Identification; Full Mammalian cDNA Cloning/Sequencing Technology and Human Genetics.

In general, proposed research projects should be of one to two years duration (renewals possible) with direct costs requests ranging from \$100,000 to \$150,000 per project year. Smaller pilot and larger research projects may be considered as well as other initiatives consistent with the MGRI mission.

For complete program information and proposal guidelines contact:

Dr. Finley Austin
Administrative Director
Merck Genome Research Institute
Sumneytown Pike, P.O. Box 4
WP42-300
West Point, PA 19486

www.mgri.org
or
email at mgri@merck.com

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This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 100 American Home Products Corporation. We currently have the following opportunities at our Princeton, New Jersey facility.

Research Scientist, Robotics and Automation

The selected candidate will assist in the development of biochemical screens using robotic and automated equipment. This includes analyzing data, generating reports, and conveying results to investigators.

Requirements include an M.S./B.S. degree in Life Sciences, Mathematics, or Engineering with 2-7 years related experience performing biochemical screens in microtiter plate format. The candidate should be familiar with the use of robotics and automated equipment common to microtiter plate assay (washers, readers, and pipettors) and have experience in high-throughput screening. Computer literacy in data management software such as Excel or Access is a plus. The ability to find creative solutions associated with assay development and to work both individually and in a team environment is essential. **Position #OPSCI-2173**

Drug Metabolism Post-Doctoral Positions

Research Scientist In Vitro Drug Metabolism

The selected candidate will be responsible for the development of in vitro models for drug metabolism and drug interactions using the small intestine. The effect of xenobiotics on the regulation of drug-metabolizing enzymes in the small intestine will also be investigated.

Requirements include a Ph.D. in Pharmacology, Biochemistry, Medicinal Chemistry or a related field, and experience is required in the use of molecular biology techniques in drug metabolism, and the use of in vitro models to predict human drug metabolism and drug interactions.

Position #OPSCI-2848

Research Scientist, Scientific Affairs Molecular Imprinting

We are seeking a post-doctoral research fellow who has experience with molecular imprint technology and is interested in coupling such technology with mass spectrometry. Our research interest is to develop novel procedures to selectively extract and enrich trace amounts of analytes from complex biological matrices and to couple such procedures with LC/MS/MS. Research results are expected to be published in peer-reviewed scientific literature.

Requirements include a Ph.D. degree or equivalent in Chemistry, Applied Biochemistry, or a related discipline. Experience with molecular imprinting technology, affinity extraction, binding receptors or antibodies to LC columns, stationary phase chemistry, etc., are desirable. Experience with mass spectrometry is not required. Successful candidate will instruct molecular imprint technology while receiving extensive hands-on training in mass spectrometry with state-of-the-art instrumentation. **Position #OPSCI-2484**

Wyeth-Ayerst offers a competitive salary and benefits package along with one of the best employee stock option programs in the pharmaceutical industry. Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Dept., Position #, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.





RICE UNIVERSITY DEAN OF ENGINEERING

Rice University invites applications and nominations for the position of Dean of the George R. Brown School of Engineering. Reporting to the Provost, the Dean is responsible for academic, fiscal, and personnel matters. The Dean is expected to provide leadership for the school and to foster excellence in teaching, research, and service to the community. The Dean also represents the School of Engineering to external agencies and constituencies and actively participates in the University's fund-raising initiatives.

Rice University is an independent, coeducational, nonsectarian, private university dedicated to undergraduate and graduate education, research, and professional training in selected disciplines. Located in Houston, Texas, Rice has an undergraduate student population of 2,600, a graduate and professional student population of 1,400, and a full-time faculty of 450. Established in 1891, the University has an operating budget of approximately \$235 million and an endowment of \$2.3 billion. The School of Engineering consists of 9 departments with 93 full-time faculty members.

Applicants must have a distinguished record of scholarship commensurate with a tenured appointment at Rice University. Prior experience in academic administration is preferred. Women and minorities are encouraged to apply. Salary is commensurate with experience and qualifications. Applications should be received no later than November 30, 1997.

To apply, please send a letter discussing your qualifications, along with a current résumé and the names, addresses, and telephone numbers of five references to:

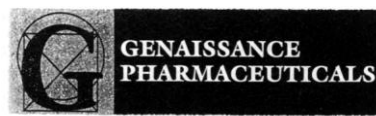
Shelly Weiss Storbeck, Managing Director and Vice President
A. T. Kearney, Inc., 225 Reinekers Lane, Alexandria, VA 22314
Phone: 703-739-4613; Fax: 703-518-1782
E-mail: shelly_storbeck@atkearney.com

All inquiries will be maintained confidentially.

To nominate another person, please send a letter discussing their qualifications and providing contact information for the nominee.

Rice University is an Equal Opportunity/Affirmative Action Employer.

For more information on Rice Engineering, see <http://www.ruf.rice.edu/~deanengr>.



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GENAISSANCE PHARMACEUTICALS, INC. DIRECTOR OF BIOINFORMATICS DIRECTOR OF LICENSING

Genaissance is a pharmacogenomics company committed to the development of personalized medicines by discovering isogenes and utilizing them to develop novel therapeutic targets and clinically predictive Mednostics™ indices. We are presently seeking individuals to fill two key positions within the company in the area of bioinformatics and licensing.

Director of Bioinformatics. The ideal candidate will design, construct, and manage a substantial database of isogene information with broad applications in genetic epidemiology. Qualifications include substantial programming and database construction experience, interfacing the database with a variety of genome analysis tools, and the research requirements of several discovery teams working in parallel.

Director of Licensing. This individual will be responsible for the management of the technology and intellectual property portfolio of the company, including review and management of patent prosecution issues. A key component will include responsibility for acquisition of additional DNA and RNA samples from diseased and normal human populations from several sources. Experience in negotiating and consummating licensing and other technology transfer agreements is required.

Interested candidates can obtain additional information about **Genaissance** by visiting our website (www.genaissance.com). Applications, including cover letter, curriculum vitae, and the names and telephone numbers of three references should be forwarded to: **Personnel Manager, Genaissance Pharmaceuticals, Five Science Park, New Haven, CT 06511.** Alternatively, materials may be submitted by FAX to (203)-562-9377.

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We are seeking a Scientist to join our Endocrinology/Metabolism group. The successful candidate will develop an independent research program investigating the molecular mechanisms that control food intake, fuel homeostasis and adipocyte differentiation and development. The research program is expected to lead to the development of drugs that will be useful for the treatment of obesity and type II diabetes. Requirements include a PhD and postdoctoral experience in a relevant area of Biology and significant understanding and experience in molecular and cellular biology.

Our progressive benefits package includes full medical/ dental/vision, 3 weeks vacation, a sabbatical program, a stock purchase plan and health club membership. For consideration, send your resume to Genentech, Inc., Human Resources, Job Code SCI192, P.O. Box 1950, South San Francisco, CA 94083-1950. Please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters).

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POSTDOCTORAL TRAINING

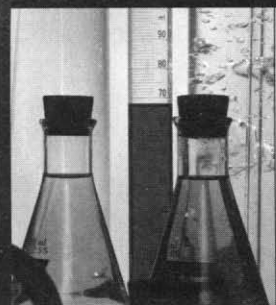
The Chemical Industry Institute of Toxicology (CIIT) in Research Triangle Park, NC is seeking postdoctoral fellows with Ph.D., D.V.M., or M.D. degrees to join research programs in:

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- Respiratory Toxicology
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Candidates in the life, physical, and engineering sciences are encouraged to apply. CIIT doctoral staff members have backgrounds in aerosol science, molecular and cellular biology, veterinary medicine, pharmacology, toxicology, pathology, biochemistry, chemistry, biomathematics, biostatistics, and engineering. CIIT offers exciting opportunities to use contemporary research approaches and instrumentation to address real world issues. Over the past 20 years, more than 150 postdoctoral fellows have trained at CIIT and are now employed in responsible positions in industrial, government, and academic organizations.

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POST DOCTORAL POSITION — IMAGE ACQUISITION AND PROCESSING

In this position, you will work independently in the design, assembly and support of sophisticated PC-based imaging systems in the clinical evaluation of new and existing pharmaceuticals applied to skin, hair, etc.

Applicants should have a PhD in physics, optical engineering or bioengineering and up to 2 years' practical experience. A thorough knowledge of image analysis, image enhancement techniques, three dimensional image space, feature extraction techniques, along with proficiency in Visual C++ is essential. Practical photographic experience, along with knowledge of Image Pro Plus and PhotoShop are highly desirable, especially scripting analysis routines and developing custom plug-ins. You must be creative, able to handle a variety of tasks simultaneously and have excellent communication skills. Domestic and International travel is required to set up and support our business partners. **Dept. 1633.**

SENIOR RESEARCH SCIENTIST

You will be responsible for developing models and methods for evaluation of hair and skin care products, creating new and differentiated product claims, assisting and training others in new test methods and methodologies and evaluating prototype formulations.

To qualify, you will need 2-5 years of industry experience in the area of hair care, an MS/PhD or equivalent in Biology/Life Sciences, methods development expertise, computer skills, and presentation and writing abilities. Familiarity with Instron instruments, Fourier Transform Infrared, Optical SEM Microscopy, or Atomic Force Microscopy instrumentation capabilities are desirable. **Dept. 1634.**

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Inex Pharmaceuticals Corp. is a Canadian-based company that is leading the development and commercialization of targeted intracellular drug delivery systems for "in vivo" treatment of human disease. This includes the intracellular delivery of antisense oligonucleotides and DNA vectors. We are seeking highly-motivated technical staff, preferably with industrial experience.

Vice President

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Inex seeks an accomplished technical leader with extensive training and expertise in medical oncology to manage the company's expanding clinical development program. Participating in the selection of therapeutic targets, advising on the development of clinical products, helping set the standards of excellence in our clinical programs, and driving clinical programs toward successful product approval.

The successful candidate will have an MD/Ph.D. with 8 years directly related clinical development experience and a solid background in clinical research, with a demonstrated track record of successful clinical development of new pharmaceutical products in medical oncology, as well as exposure to writing study protocols and on-site monitoring. Must have thorough knowledge of clinical research methodology and related international investigational drug regulations. In addition to outstanding clinical and scientific skills, the successful candidate will have excellent written and oral communications skills.

Research Scientist- Tumour/Cell Biologist

We are seeking an individual with a minimum of 2 years of post-doctoral research/industrial experience in developing clinically relevant tumour models for potential therapeutics. Experience with non-viral and viral delivery systems is an asset. We are looking for an innovator and a team player interested in working in a highly productive team environment.

Research Scientist- Intracellular Delivery

Successful candidate will have a minimum of 2 years of post-doctoral research/industrial experience in cell biology with emphasis on subcellular fractionation/localization, endocytosis, cell receptors, signal transduction, organelle trafficking, or related fields is required. You will be responsible for characterizing the cellular interactions and biological fate of carrier systems intended for intracellular delivery of therapeutic agents such as oligonucleotides, plasmids and proteins. This will involve evaluation of cellular uptake, intracellular delivery and trafficking of components in cell culture or in vivo. Excellent interpersonal and communication skills are essential.

Research Scientist- Carrier Technology

Candidates should have a Ph.D. in Biochemistry, Biophysics or Cell Biology and a minimum of 2 years of post-doctoral research/industrial experience. You will be responsible for the development of lipid-based carrier systems for therapeutic agents such as oligonucleotides, plasmids, peptides and conventional drugs. Experience in membrane biochemistry or liposomology is required. Further, a wide range of expertise in techniques such as fluorescence spectroscopy, electron microscopy, cell culture, and analytical methods, would be preferred. You should be team oriented and have excellent interpersonal and communication skills.

Formulation Development Scientist

A development position requiring a minimum of 2 years of post-doctoral industrial experience in the field of membrane and drug formulation research. Working knowledge of regulatory, manufacturing and clinical requirements for new drug formulations or delivery systems is required. Experience with the intracellular delivery of peptides or nucleic acids is an asset. Excellent interpersonal and communication skills are essential.

Development Associates

With the expansion of our Development group we are seeking to fill a number of positions requiring a B.Sc./M.Sc. with a minimum of 2 years of industrial experience in the field of Scale-up/process development and/or Clinical Manufacturing. Working knowledge with cGMP/cGLP, SOP's regulatory, manufacturing and clinical requirements for new drug formulations or delivery systems is required. Excellent interpersonal and communication skills are essential.

Please forward your resume to: Human Resources, Inex Pharmaceuticals Corporation, 1779 West 75th Avenue, Vancouver, B.C. Canada V6P 6P2 or FAX: 604-264-9690 or email yaroshev@inexpharm.com

Copportunities with **ZymoGenetics**

ZymoGenetics, Inc., a local biotechnology company located in Seattle's historic Lake Union Steam Plant, is seeking qualified candidates for the following positions:

Scientist/Senior Scientist

The discovery Biology group is seeking a Scientist/Senior Scientist to develop advanced cell-specific gene targeting and expression technologies for the functional elucidation of novel genes. The successful candidate will be expected to design novel strategies for cell-specific over and under expression of genes in animal models. Applicants should have a strong background in molecular and cell biology with demonstrated expertise in complex DNA construct design and manipulation. Familiarity with transgenic/knockout or viral vector expression constructs is required. Biological expertise in the areas of immunology, the cardiovascular system or ischemia/reperfusion is desired but not essential. Strong written and oral communications skills and the ability to work in a multidisciplinary team are needed. Education requirements: Ph.D or MD with 2-6 years academic or industrial experience in molecular and cell biology.
Job ref #32R197

Scientist/Senior Scientist

Animal Pharmacology Group

We are seeking an In-Vivo Biologist to join our team testing novel proteins in animals to determine their functions and possible therapeutic utility. Responsibilities include design, performance and analysis of animal experiments to identify biologic activities of protein agents, as well as identification of appropriate animal models for evaluation of therapeutic potential. Strong written and oral communication skills are required. Versatility and flexibility are essential. Must be able to work in a multi-disciplinary team. Expertise in one or more of the following areas is useful: evaluation of transgenic and knockout phenotypes, inflammation, autoimmune disease, tumor cell growth and metastasis. Applicants should have a Ph.D, DVM, or MD, and 2-6 years academic or industrial experience in pathology, pharmacology, or physiology.
Job ref #15R597

Senior Scientist

ZymoGenetics is seeking an innovative scientist to investigate function and dissect mechanism of action of novel therapeutic proteins. The successful candidate will have a strong background in cell biology and extensive experience in the evaluation of diverse biological activities using in vitro assay systems. The position will be responsible for identification, implementation, and performance of in vitro assays for elucidation of protein ligand function. Knowledge of cytokines and growth factors, their receptors, and signal transduction pathways is required. Experience in the use of molecular biology techniques to create engineered cell lines and assay systems to address biological questions is desired. Education requirements: Ph.D. and 2-5+ years of related experience, or MS/BS and 10+ years related experience.
Job ref #15R497

As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your resume/CV noting Job reference # to: ZymoGenetics, Inc., Human Resources 1201 Eastlake Avenue East, Seattle, WA 98102. ZymoGenetics is committed to equal opportunity and diversity.

ZYMOGENETICS

GENE LOGIC INC.

Gene Logic Inc. uses a proprietary system, based on analysis of gene expression and gene regulation, designed to accelerate the discovery of drug targets and drug leads. The Company's objective is to provide its pharmaceutical company partners with novel drug targets, drug leads, and a suite of genomic database products to reduce the time, cost, and risk associated with drug discovery.

We are also seeking B.S./M.S. and Ph.D.-level personnel for both our Maryland and California offices in the following positions:

Bioinformatics

Director of Development (Job #270)

Database Developers (Job #250)

Application Developers (Job #255/260)

Research Analysts (Job #210)

Please forward CV's with reference to Job # to:

GENE LOGIC Inc.
10150 Old Columbia Road
Columbia, MD 21046
410 309 3111 fax

GENE LOGIC INC.

Gene Logic Inc. uses a proprietary system, based on analysis of gene expression and gene regulation, designed to accelerate the discovery of drug targets and drug leads. The Company's objective is to provide its pharmaceutical company partners with novel drug targets, drug leads, and a suite of genomic database products to reduce the time, cost, and risk associated with drug discovery.

We are seeking B.S./M.S. and Ph.D.-level scientists with expertise in:

Genomics

Microarray/Automation (Job #215)

Gene Expression (Job #220)

Sequencing (Job #280)

Postdoctoral Fellows (Job #230)

Laboratory

Supervisor (Job #265)

Drug Discovery

Program Managers (Job #225)

Please forward CV's with reference to Job # to:

GENE LOGIC Inc.
10150 Old Columbia Road
Columbia, MD 21046
410 309 3111 fax

NATIONAL INSTITUTES OF HEALTH

Undergraduate Scholarship Program (UGSP)

Qualified undergraduates can train and be mentored at the cutting edge of biomedical research while receiving scholarship support.

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency. NIH offers scholarships to qualified individuals who are committed to a career in biomedical research.

Scholarships up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

During each year of the award, scholars serve for 10 weeks (with salary/benefits) as employees in NIH research laboratories. They are assigned mentors, participate in seminars and programs available to all NIH researchers, and are provided with housing and transportation. After graduation, they serve 1 year of full-time employment at NIH for each year of scholarship support.

Interested students should apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

This is a special opportunity for special students.

For more information, contact
NIH/OD/OIR/VOLRS
UGSP
7550 Wisconsin Avenue, Room 604
Bethesda, MD 20892-9121

Phone: 800-528-7689
Fax: 301-402-8098
e-mail: ugsp@nih.gov
TTY: 1-888-352-3001
<http://ugsp.info.nih.gov>



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



CNS DISCOVERY RESEARCH AT SCHERING-PLOUGH

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

ASSOCIATE SCIENTIST Molecular Neurobiology

We seek a talented scientist to join a team focused on the study of Alzheimer's disease and molecular mechanisms of neurodegeneration. To qualify, you will need a BS degree in Biology or a related field and at least 4 years of experience, or an MS and at least 2 years of experience. Background must include strong molecular biology skills with extensive experience in DNA isolation, Southern analysis, PCR cloning and automated DNA sequencing. This position also requires skills in mammalian cell culture and transfection (experience with culturing primary neurons preferred), and transgenic/knock-out experience which includes transgene construction, colony maintenance, microinjection techniques and genomic screening. To be considered for this position, please reference Dept. DD97-36-BG.

ASSOCIATE SCIENTIST Protein Biochemistry

We seek a highly motivated team player to join a group engaged in the discovery and characterization of novel drug targets in Alzheimer's disease. To qualify, you will need a BS degree in Biochemistry or a related field and at least 4 years of experience, or an MS degree and least 2 years of experience. Background must include hands-on experience in protein biochemistry, tissue culture, immunoassays and molecular biology techniques. To be considered for this position, please reference Dept. DD71-32-BG.

ASSOCIATE SCIENTISTS Receptor Research

We seek talented scientists to join a team focused on the identification and characterization of receptors and related proteins as potential therapeutic targets. To qualify, you will need a BS in Biology or a related field and at least 4 years of experience, or an MS and at least 2 years of experience. Strong molecular biology/biochemistry skills, including cDNA library construction and cloning, automated DNA sequencing, eukaryotic cell culture, protein purification or cellular signalling, are essential. To be considered for these positions, please reference Dept. DD97-46-BG.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



**Schering-Plough
Research Institute**

Using Science for Human Advantage

POSITIONS OPEN

ENVIRONMENTAL SCIENTIST

The Environmental Science Department at Barnard College, Columbia University is seeking a full-time **ASSISTANT PROFESSOR** to start in the 1998-1999 academic year. Candidates are sought with specialization in environmental organic or analytical chemistry, or organic geochemistry. Preference will be given to individuals with experience in ecological exposure and risk assessment of organic contaminants, or in the use of natural organic biomarker compounds or molecular biology methods in the study of biogeochemical processes.

Teaching responsibilities involve lectures and laboratories, including organic chemistry. Applicants should demonstrate a commitment to undergraduate teaching, to direction of student research, and to establishing a vigorous research program. Barnard is an independent undergraduate college for women affiliated with Columbia University. Opportunities are available for collaborative teaching and research programs with the Department of Earth and Environmental Sciences at Columbia University, and Columbia's Lamont-Doherty Earth Observatory.

Ph.D. required; postdoctoral and prior teaching experience desirable. Submit a curriculum vitae, statement of research and teaching experience and plans, two representative publications, and three letters of recommendation by November 24, 1997, to: **Professor Stephanie Pfirman, Department of Environmental Science, Barnard College, 3009 Broadway, New York, NY 10027-6598.** Barnard College, an Equal Opportunity Employer, particularly encourages applications from women and members of minority groups.

ASSISTANT PROFESSOR OF CELLULAR AND MOLECULAR BIOLOGY

The Biology Department at Virginia Tech invites applications for a tenure-track position as an Assistant Professor in eukaryotic cellular and molecular biology, beginning August 1998. Applicants should have postdoctoral experience in this area of research. The successful candidate will be expected to develop a competitive research program and to participate in undergraduate and/or graduate teaching. A letter of application, curriculum vitae, statement of both research and teaching goals, and letters from three references should be received by December 15, 1997. Correspondence should be sent to: **Dr. Charles L. Rutherford, Search Committee Chair, 2119 Derring Hall, Biology Department, Virginia Tech, Blacksburg, VA 24061-0406.** Information about the Biology Department is available through our website: <http://www.biol.vt.edu>. Virginia Tech has a strong commitment to increasing the diversity of the faculty and seeks a broad spectrum of candidates including women, minorities, and people with disability.

GENETICIST

The Department of Biological Sciences, Goucher College, has a tenure-track opening at the **ASSISTANT PROFESSOR** level for a broadly trained Geneticist beginning September 1998. Candidates must possess a Ph.D. and a commitment to teaching and research at an undergraduate institution. Postdoctoral and teaching experience are preferred. Responsibilities include teaching intermediate and advanced courses in genetics, participation in the core curriculum at the Freshman and Sophomore level, and developing a research program which includes undergraduates. Applicants should send curriculum vitae, summary of teaching philosophy and research interests, and three letters of recommendation to: **Dr. George Delahunty, Chair Genetics Search, Department of Biological Sciences, Goucher College, 1021 Dulany Valley Road, Baltimore, MD 21204.** Application deadline is December 1, 1997. *Equal Opportunity Employer.*

ECOLOGY AND EVOLUTION. The University of Chicago seeks to fill a two-year **LECTURESHIP** with option of renewal, starting January 1, 1998, or as soon thereafter as possible. Responsibilities include supervising teaching assistants, organizing laboratories, and assisting in laboratory and curriculum development in the ecology and evolution segments of the introductory sequences for biology majors. Applicants should hold a Ph.D. in evolution or ecology, and have a strong interest in undergraduate education. Applicants with prior teaching experience are preferred. Send curriculum vitae, three letters of reference, and a statement of teaching interest by November 25, 1997, to: **Ecology and Evolution Lecturer Search, c/o Dr. José Quintans, The University of Chicago, Biological Sciences Learning Center Room 104C, 924 East 57th Street, Chicago, IL 60637.**

POSITIONS OPEN

GENETICS OF AGE-RELATED MACULAR DEGENERATION DIVISION OF OPHTHALMOLOGY The Cleveland Clinic Foundation

A faculty position is available in the Division of Ophthalmology at The Cleveland Clinic Foundation for a **HUMAN GENETICIST** to develop a research program in family and/or population-based molecular genetics of age-related macular degeneration. A proven ability to apply state-of-the-art molecular genetic techniques, including linkage and mutation analysis, to the study of human disease is required. Some knowledge of the genetics of eye/retinal disease would be an advantage but is not essential. Outstanding organizational skills are required, as the successful candidate will be expected to use the abundant clinical material available in the Eye Institute as a research resource. It is also expected that the candidate will develop a research program that will be competitive for NIH support. Excellent salary and benefits along with generous start-up funds for equipment, supplies, and personnel are available. Salary and rank are open and dependent on the background and experience of the candidate.

Applicants should send their curriculum vitae, a statement of research training and interests, a selection of reprints, and three letters of recommendation to:

Joe G. Hollyfield, Ph.D.
Director of Ophthalmic Research
The Cleveland Clinic Foundation
9500 Euclid Avenue (FFB-29)
Cleveland, OH 44195
FAX: 216-445-3670
E-mail: hollyfj@cesmtp.ccf.org

The Cleveland Clinic is an Equal Opportunity/Affirmative Action Employer.

NEUROSCIENTISTS

We invite applications for tenure-track positions at open rank for scientists interested in helping to build a highly-respected, interactive, research-intensive academic department in the setting of a small medical college. Scholarly academic responsibilities also include participation in a team-taught course in medical neuroscience, university citizenship, and the training of graduate students. Funded scientists with research interests that are separate from, yet complementary to, our current work on the neurobiology of central dopamine and excitatory amino acid neuronal systems (for details, website: www.finchcms.edu/neuro/home.html) are encouraged to send a curriculum vitae, a description of research goals, a list of professional references and two to three publications to:

John Sladek, Ph.D.
Professor and Chairman
Department of Neuroscience
The Chicago Medical School
3333 Green Bay Road
North Chicago, IL 60064

We are an Equal Opportunity Employer.

IMMUNOLOGIST

The Laboratory of Allergy and Inflammatory Lung Diseases within the Division of Pulmonary, Allergy, and Critical Care Medicine at Columbia University's College of Physicians and Surgeons is seeking candidates interested in studying lung inflammation or asthma to fill a tenure-track position at the level of **ASSISTANT PROFESSOR OF MEDICINE**. Areas of current research in the division include cytokine signal transduction, TH cell development, IgE regulation, Fc signaling, and phagocytosis. We seek an investigator whose work complements these ongoing programs. Applicants should hold a Ph.D. or M.D. degree, have at least two years of postdoctoral research experience, and are expected to be able to establish an independent research program. Please forward curriculum vitae, three letters of reference, and a brief summary of future research interests to: **Paul Rothman, M.D., Chief, Division of Pulmonary, Allergy, and Critical Care, College of Physicians and Surgeons, Vanderbilt Clinic 12-213, 630 West 168th Street, New York, NY 10032.** Deadline for application submission is November 30, 1997.

RESEARCH SCIENTIST to study neurogenesis and cell determination in developing/regenerating retina. At least two years of postdoctoral training in cell/molecular biology is required. Contact: **Dr. P. A. Raymond, University of Michigan, Department of Anatomy and Cell Biology, Ann Arbor, MI 48109-0616.** E-mail: praymond@umich.edu. *The University of Michigan is an Equal Opportunity Employer.*

POSITIONS OPEN

SIGNAL TRANSDUCTION MOLECULAR NEUROBIOLOGISTS NEUROONCOLOGIST, NEUROPATHOLOGIST Montreal Neurological Institute McGill University

The Montreal Neurological Institute (MNI) is seeking to recruit six Ph.D. or M.D. scientists interested in signal transduction and cell growth control, molecular neurobiology, and neurooncology. Openings at all faculty levels are available to be housed in a new 19,000 sq. ft. Brain Tumor Research Center (BTRC) at the MNI. The BTRC will be an integrated basic and clinical research center dedicated to understanding the processes of proliferation, differentiation, and apoptosis of neural tumor cells. Investigators will hold **TENURE-TRACK** academic appointments within the Faculty of Medicine at McGill, and will be provided with ample start-up funds. The academic environment and collaborative potential for basic and clinical neuroscience at the MNI, at McGill, and in Montreal are excellent. Montreal is a cosmopolitan, bilingual city known for its high quality of life. Applications should be sent to: **Dr. David Kaplan, Scientific Head, Brain Tumor Research Center, Montreal Neurological Institute, 3801 University Street, Montreal, Quebec H3A 2B4 Canada.** The deadline for receipt of applications is January 31, 1997.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to Equity in Employment.

FLOW CYTOMETRY THE UNIVERSITY OF TEXAS M. D. ANDERSON CANCER CENTER Research Division

The University of Texas M. D. Anderson Cancer Center, one of the world's leading cancer research centers, has an outstanding opportunity at our research facility located in Smithville, Texas.

You will be responsible for expanding and directing a resource center in flow cytometry and related technical services. Specifically, you will be responsible for the operation, management, development, budget, and charges of the flow cytometry resource. You will be responsible for all aspects of routine operation of flow cytometry, equipment maintenance, and user support and education. Background in research-oriented flow cytometry is required. Assistance with experimental design and protocols is desirable, as is equipment troubleshooting and computer knowledge. Qualified applicants should send a curriculum vitae and list of references to: **Dr. Ellen Richie, Department of Carcinogenesis, University of Texas M. D. Anderson Cancer Center, Science Park, Box 389, Smithville, TX 78957.**

We are an Equal Opportunity/Affirmative Action Employer.

SCIENTIST/PROGRAMMER

Sought for a collaboration between Sulfonics and the research group of **Professor Steven Benner** (University of Florida, Gainesville) to join a small team to complete the development of a commercial bioinformatics package. The package integrates evolution-based databases, structure prediction, and tools to extract physiological function from genomic sequences. Background in basic biochemistry and at least two years of programming in C required. Previous experience with structural biology and/or molecular evolution desirable.

Interested individuals should send copies of their curriculum vitae and three references by November 30th to:

Professor Steven Benner
University of Florida
Department of Chemistry
P.O. Box 117200
Gainesville, FL 32611-7200

RESEARCH ASSOCIATE. Anne Fisher Nutrition Center at Strang Cancer Prevention Center. Our program is devoted to designing chemoprevention strategies based on the nutritional regulation of genes involved in arachidonic acid metabolism. The successful candidate will conduct independent basic research as well as develop chemoprevention studies in patients. We seek an M.D. experienced in clinical chemoprevention research, with expertise in molecular/cell biology and a strong background in retinoid biology, arachidonic acid metabolism, and regulation of gene transcription. Salary commensurate with experience. Send curriculum vitae to: **Dr. Andrew J. Dannenberg, Strang Cancer Prevention Center, 428 East 72nd Street, New York, NY 10021.**

Geron Corporation, located in the San Francisco Bay Area, is pioneering new approaches to treat age related diseases including cancer. The ribonucleoprotein enzyme telomerase, plays a central role in cancer progression and cellular aging. Geron Corporation has recently cloned the key protein component of human telomerase and wishes to rapidly translate this breakthrough into drug discovery.

Scientist - Molecular Biology

Identify and explore novel age related disease targets and capitalize on Geron's knowledge of telomere biology for extension of cellular proliferation. Requires a Ph.D. in Molecular Biology, Biochemistry, or Cell Biology with a proven track record in related research.
(Job Code 3097)

Scientist - Pharmacology

Develop and optimize in vivo (small animal) models for target validation and drug testing in support of our Genomics of Aging program. Requires a Ph.D. in Cell Biology or Pharmacology with 2+ years' experience in a research/industry environment. Demonstrated independence and excellence in animal model development, preferably in skin models; technical expertise in rodent surgery and handling; tissue culture experience preferred. Good communication skills a must.
(Job Code 15-97)

Postdoctoral Fellows:

•Telomere Biology, Cancer, and Aging

Join on-going projects investigating the biochemistry of telomerase or the interaction of the telomerase RNA and protein components with other telomere components and the cellular systems regulating growth and cell division. Requires a strong background in Molecular Biology, Biochemistry, or Cell Biology, with an emphasis on telomeres and/or aging. Strong skills in DNA/RNA polymerase biochemistry and/or gene targeting preferred. Proficiency in tissue culture/flow cytometry is desirable.
(Job Code 1997)

•Primordial Stem Cells

Study primate derived embryonic stem/germ cells and their growth and differentiation into multiple lineages for cell therapy and gene therapy applications. Requires a Ph.D. in Cell Biology or related discipline. Strong background in cell growth and differentiation and gene regulation. Experience with hematopoietic stem cells, neurons, or cardiomyocytes preferred. Experience with embryonic stem cells a plus. Proficiency in molecular biology techniques and flow cytometry highly desirable.
(Job Code 1997)

Our innovative research company offers a competitive salary, benefits, stock incentive and stock purchase programs. Please send your resumes to:

Geron Corporation
Attn: HR; Job Code _____
230 Constitution Drive
Menlo Park, CA 94025
Email: hr@geron.com



THE CUTTING EDGE OF DRUG DISCOVERY

Arris Pharmaceutical Corporation is an innovative biopharmaceutical company using an integrated, team-oriented approach to drug discovery. Our focus is on the discovery & development of diverse small molecule therapeutics for existing markets where present therapies have significant limitations. With so many promising collaborations & pre-clinical drug candidates coming to fruition, we have an outstanding opportunity for a select group of hands-on researchers to join our progressive interdisciplinary research team at the cutting edge of drug discovery.

Scientist Enzymology

You will design/perform experiments to characterize our lead compounds in a variety of enzyme systems; develop assays; and characterize target proteases. You will also represent the enzymology department on project teams; provide scientific leadership to enzymology research associates; conduct research to identify new targets; present/publish experimental results; and stay abreast of the current scientific literature. The position requires a PhD in biochemistry or related field; 2+ years' post-doctoral experience; a strong background in enzyme kinetics & assay development; and solid written/verbal communication skills. Experience with molecular cloning & protein purification techniques helpful. Experience with protease biochemistry & biology desired. Industry experience a plus. Presentation & publication of results will be expected. (Job# SC1097-EZS)

Scientist Pharmacology

Working closely with a team of medicinal chemists, enzymologists and molecular biologists, you will help evaluate the company's lead compounds in various models of cancer, inflammation and immune-mediated diseases. You will also apply state-of-the-art technologies to elucidate the disease correlation of novel molecular targets, and help bring suitable drug candidates to the clinical development stage. The position requires a PhD; 1-5 years of relevant post-doctoral and/or pharmaceutical drug discovery experience.
(Job# SC1097-PHS)

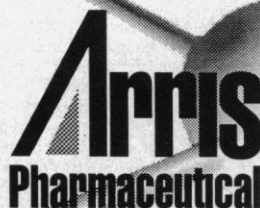
Senior Research Associate/Scientist Drug Metabolism/Bioanalytics

You will design/implement in vivo & in vitro experiments that define: ADME, biodistribution, stability, major metabolites and metabolic pathways of development compounds. You will also maintain laboratory notebook; analyze/present results to project teams; write summary reports; and oversee responsibilities for 1-2 Research Associates. The position requires an MS or PhD; 3-5 years' industry/post-doctoral experience with in vivo & in vitro metabolism techniques; bioanalytical experience with HPLC, MS and methods development; Mac & PC proficiency; surgery experience; and knowledge of radiolabeled compounds & cGLP. (Job# SC1097-DMB)

Senior Research Associate/Scientist Pharmacokinetics/Toxicology

You will design/implement in vivo experiments that identify pharmacokinetic or toxicokinetic parameters for small MW compounds in development. You will also maintain laboratory notebook; analyze/present results to project teams; write summary reports; and oversee responsibilities for 1-2 Research Associates. The position requires an MS or PhD in biopharmaceutics/pharmacokinetics; 3-5 years' post-doctoral or industry experience with in vivo pharmacokinetic/toxicokinetic/pharmacodynamic experiments; computer proficiency with Mac; surgery experience; and knowledge of cGLP. (Job# SC1097-PTY)

We offer extremely competitive salaries, full benefits, attractive equity participation and career advancement opportunities within a progressive, growing company. To apply, please reference the appropriate job# and e-mail your resume to: human_resources@arris.com. You may also mail resumes to:



Arris Pharmaceutical Corp.
Human Resources Dept.
(Attn: Job# _____)
180 Kimball Way
South San Francisco CA 94080

www.arris.com

Equal Opportunity Employer

POSITIONS OPEN

DIRECTOR OF THE HENRY HOOD RESEARCH PROGRAM HUMAN GENETICS/MOLECULAR MEDICINE

The Pennsylvania State University College of Medicine is seeking an outstanding scientist working in the area of human genetics or molecular medicine to serve as Director of the Henry Hood Research Program that is housed primarily in the Sigfried and Janet Weis Center for Research located in Danville, Pennsylvania. Effective July 1, 1997, the Henry Hood Research Program has been incorporated into the College of Medicine as part of the agreement to merge the clinical enterprises of The Milton S. Hershey Medical Center and The Geisinger Clinic to create the new Penn State Geisinger Health System. The Weis Center for Research, a research building dedicated in 1987, includes 65,000 square feet of laboratories, conference areas, offices, and informal meeting rooms. The Center presently has generous and fully equipped laboratory and office space for its 7 Professors, 11 Assistant Professors, 13 Instructors, 15 Postdoctoral Fellows and 30 Research Technicians who are working in the area of molecular medicine. It additionally has 8,000 square feet of space available to the new Director to initiate a program in human genetics. The new Director will have the opportunity to recruit three senior faculty in the Henry Hood Research Program, to coordinate the emerging initiatives in human genetics at the College of Medicine and the University Park campus of The Pennsylvania State University, and to facilitate clinical research in human genetics within the Penn State Geisinger Health System. Substantial resources are available for start-up funds for the new director and the new recruits as well as for support of salary, personnel, supplies, and equipment for each of the new and existing positions. The successful applicant will have academic credentials fulfilling the regulations of The Pennsylvania State University for appointment at the Professorial level. Priority will be given to applicants who can relate basic research to clinical problems, and therefore an M.D. or M.D.-Ph.D. degree(s) will be a definite asset but not an absolute requirement.

Reply with curriculum vitae to: **Leonard S. Jefferson, Ph.D., Chair, Search Committee, Senior Associate Dean for Research and Graduate Studies, The Pennsylvania State University College of Medicine, P.O. Box 850 (H175), Hershey, PA 17033-8500.** We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.

CHEMISTRY RESEARCH MOLECULAR MECHANISMS

A Scientist position is available in the Molecular Mechanisms Group in our Research Department. The successful candidate will perform characterizations of lipid assemblies and define lipid-lipid and lipid-drug interactions in those assemblies. The use of such techniques as DSC-NMR, cyro-EM, fluorescence spectroscopy, etc. is desirable and an understanding of the physical properties of liposomes and other lipid assemblies is required.

The qualified candidate will possess a Ph.D. in biophysics, chemistry, biochemistry, bioengineering, or a related discipline. Prior experience in physical chemical techniques is desired.

In addition to a creative environment, we offer a competitive salary and comprehensive benefits. Interested candidates please send résumé and references to: **The Liposome Company, Inc., Human Resources Department, 1 Research Way, Princeton, NJ 08540.** Equal Opportunity Employer.

ANIMAL PHYSIOLOGISTS. Two positions pending funding, fall 1998, tenure-track ASSISTANT PROFESSOR; awarded Ph.D., postdoctoral preferred. Teach vertebrate and human physiology and course in specialty; one will coordinate Clinical Laboratory Sciences Program; research program in animal physiology involving undergraduate and M.S. students. Commitment to innovative teaching including use of instructional technologies. Please send curriculum vitae, separate teaching and research statements, and three letters of reference to: **Physiology Search, Department of Biology, MSC 7801, James Madison University, Harrisonburg, VA 22807.** Applications received by November 15 will be assured consideration. *James Madison University is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women, and persons with disability. See website: <http://www.jmu.edu/biology/jobs.html> for details.*

POSITIONS OPEN

McLaughlin Research
1520 23rd Street South
Great Falls, Montana 59405
Institute for Biomedical Sciences

MAMMALIAN GENETICIST

Unique opportunity for research programs with an emphasis in mammalian genetics. McLaughlin Research Institute is a small nonprofit organization and offers a non-bureaucratic, interactive research environment. The Institute is housed in a spacious new research building with an excellent mouse facility that includes a transgenic service. Applicants should have an NIH-supported research program, or be highly likely to obtain independent support. Developmental biologists, molecular geneticists, neuro-geneticists, and others developing mouse models for human disease are particularly encouraged to apply.

Applications, including names of individuals we may contact for references, should be addressed to:

George A. Carlson, Ph.D.

**Director, McLaughlin Research Institute
1520 23rd Street South
Great Falls, MT 59405**

For additional information contact **George Carlson, Bill Crain, Doug Coffin, or John Mercer** at MRI, or any of the following members of our Scientific Advisory Committee: **Irv Weissman, David Baltimore, David Cameron, Neal Copeland, Jeff Frelinger, Leroy Hood, or Nancy Jenkins.**

An Equal Opportunity/Affirmative Action Employer.

PATHOLOGY RESEARCH/OPEN RANK

The Department of Pathology and Laboratory Medicine, Allegheny University of the Health Sciences, Medical College of Pennsylvania/Hahnemann School of Medicine, Allegheny General Hospital (AGH) Campus is recruiting a Researcher in experimental pathology for a **TENURE-TRACK FACULTY POSITION**. Ph.D. or M.D.-Ph.D. with training in cell biology and/or molecular biology techniques for oncologic research is desired. Opportunities to interact with investigators involved with the NSABP, Institute of Human Genetics and Cancer Center exist. Focused areas of cancer research at AGH include biology, breast, GI, pulmonary, and urologic pathology. Successful candidates should develop a high quality independent research program with extramural support, and individuals with a record of independent peer-reviewed funding for competitive grants are encouraged. Start-up package is available for the successful candidate, if needed. Send curriculum vitae, bibliography, summary of research achievements and plans, and names and addresses of three references to: **Jan F. Silverman, M.D., Professor and Chairman, Department of Pathology and Laboratory Medicine, Allegheny University of the Health Sciences, Allegheny General Hospital Campus, 320 East North Avenue, Pittsburgh, PA 15212.** *Allegheny General Hospital is an Equal Employment Opportunity/Affirmative Action Employer.*

DIRECTOR MOLECULAR BIOLOGY TRAINING FACILITY

The University of Idaho Biological Sciences department seeks a Ph.D. to head a fully equipped laboratory for training students and faculty in a broad range of molecular techniques (DNA, RNA, and proteins). At least two years of postdoctoral experience and demonstrated skill in training others required; experience with phosphorimaging and plant/animal cell culture desirable. Potential for independent or collaborative research and grants. Send letter of application, curriculum vitae, description of research and techniques experience, and names, addresses, and telephone numbers of three references by November 15, 1997, to: **Molecular Biology Director Search, Department of Biological Sciences, University of Idaho, Moscow, ID 83844-3051. FAX: 208-885-7905.**

To enrich education through diversity, the University of Idaho is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF FORMULATIONS AND DEVELOPMENT. Responsible for research and development involving application of microemulsions as vehicles for drug delivery. Includes supervision of three scientists. Ph.D. and minimum of three years of postdoctoral experience involving pharmaceutical applications for microemulsions. \$59,225 per year. Send curriculum vitae to: **Philadelphia Job Bank, 444 North 3rd Street—3rd Floor, Philadelphia, PA 19123. Job # 8026699.** *Must have proof of U.S. citizenship or authorization to work in the United States.*

POSITIONS OPEN

DIRECTOR OF RESEARCH UNIVERSITY OF OKLAHOMA BIOLOGICAL STATION

The University of Oklahoma Biological Station seeks an established scientist to serve as on-site Director of Research, who will have budgetary responsibility for the research unit at the Station. The Director of Research will report directly to the Dean of the College of Arts and Sciences; rank and salary are open. Appointment will be in the Biological Station, with Department of Zoology as home academic department. Teaching will consist of one course per year. The Biological Station, located at Lake Texoma near Kingston, Oklahoma, has a long history of excellence in aquatic ecology and field biology. More information on the Station is at website: <http://www.ou.edu/uobs>. The Director of Research will establish a strong individual research program and provide leadership for the research programs of the Biological Station, capitalizing on the location of the Station and promoting the resident research program in aquatic ecology. The Director of Research will also increase breadth of participation by visiting scientists in a wide range of terrestrial, aquatic, or land-water/landscape studies, and, as part of the Station Coordinating Committee, help plan summer teaching programs and opportunities for graduate research. The Director of Research will also be the primary liaison to external agencies or organizations with respect to Station research programs.

A Ph.D. is required, as is a record of excellence in research and extramural funding and experience in field-oriented research and teaching. Desirable qualifications include experience at field station(s) and leadership experience in multi-investigator or multidisciplinary programs. Send complete curriculum vitae, reprints, and four letters of recommendation to: **William J. Matthews, Chair of Search Committee, Department of Zoology, University of Oklahoma, Norman, OK 73019.**

CELL BIOLOGY

The Department of Biology at the University of Central Florida invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level starting August 1998. We are particularly interested in individuals using molecular cell biological approaches in animal or plant systems. However, any contemporary area of animal or plant cell biology will be considered. A Ph.D. and a minimum of two to three years of postdoctoral experience are required. The successful candidate will develop a research program that can attract extramural funding, direct graduate student research, and participate in undergraduate and graduate teaching in cell biology. The University of Central Florida is committed to a major expansion in the biological sciences, including in the next three years a multidisciplinary Ph.D. program in the biomolecular sciences, and a new 50,000 square foot addition to the Biology building. Candidates should submit a curriculum vitae, three letters of recommendation, and statements of research and teaching interests. All materials must be postmarked by December 15th, 1997. Send material to: **David T. Kuhn, Search Committee Chair, Department of Biology, University of Central Florida, 4000 Central Florida Boulevard, Orlando, FL 32816-2368.** *The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. As an agency of the State of Florida, all application materials and selection procedures are available for public review.*

CELLULAR PHYSIOLOGIST

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** who is studying animal or plant cellular function at the physiological, biochemical, or molecular level. Some preference may be given to candidates who interface with the existing physiological research programs of the Department (website: <http://www.life.umd.edu/zoology>). In addition to developing an externally funded research program, this position requires teaching cell biology/physiology at both undergraduate and graduate levels, as well as advising of undergraduate and graduate students. A Ph.D. degree, postdoctoral experience, and demonstrated research productivity are required. For best consideration, submit application by January 15, including curriculum vitae, statement of future research plans and teaching interests, two reprints, and names and addresses of three references to: **Dr. M. Dennis Goode, Department of Zoology, University of Maryland, College Park, MD 20742.** *The University of Maryland is an Equal Opportunity/Affirmative Action Employer.*



CuraGen's 3rd NIST/ATP award for genomic technology puts us in a select group of research institutes which include **AT&T, IBM, HP, and 3M.**

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Bioinformatics at **CuraGen** provides enormous opportunity to merge biological and computational genomics for a comprehensive path from disease to gene.

RESEARCH SCIENTIST: 4+ years molecular biology experience finding and characterizing novel genes, DNA and protein sequence analysis, using and/or developing computational tools and databases.

RESEARCH SCIENTIST: Experience with sequence clustering/assembly/homology, mapping/linkage, biological software development.

SOFTWARE ENGINEER:

Professional experience leading Java/HTML rapid design cycle software projects.

THREE MINUTES FROM YALE, our benefits include opportunities for equity participation in the fastest-growing private genomics firm. Please send a CV AND 3 letters of reference to apply. EOE AA. Visit our homepage: www.curagen.com

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Email: jobs@curagen.com

GENOMICS

At **CuraGen** we are inventing technology and are the first to use it for a comprehensive understanding of gene expression and gene function. We have openings for excellent scientists who share our vision.

SENIOR RESEARCH SCIENTIST: HTS Assay development and screening. Experience with yeast and mammalian protein interaction systems.

SENIOR RESEARCH SCIENTIST: Automated Methods development. Proven record of methods development and experience with automation.

SENIOR RESEARCH SCIENTIST: mRNA/cDNA preparation. Must have inventive track record, careful, reliable, and technically superior.

PROJECT LEADER: 5+ years of experience as a PI characterizing gene function through genomics and model systems. Proven track record in yeast two-hybrid systems.

Department of Microbiology and Immunology Brown University



FACULTY POSITION IN IMMUNOLOGY

A full-time faculty position is open for an Assistant Professor (renewable tenure-track) with research interests in immunology, using mouse models, to study immune responses to microbial infections *in vivo* and/or *in vitro* lymphocyte development and function. Preferences will be given to individuals with expertise complementing that of the existing faculty. There is particular interest in work on defense against bacteria and/or viruses. Final selection will be for a candidate of outstanding ability. Applicants should have doctoral degree and at least two years of postdoctoral experience using mouse models. They must show evidence of ability to establish and maintain a productive, independent, externally funded research program, and must demonstrate potential for excellence in teaching immunology and/or microbiology. Opportunities exist to interact with members of the Graduate and Postdoctoral Programs in Division of Biology and Medicine. Teaching responsibilities include participation in the basic science microbiology course for medical students, as well as an upper-level course in immunology and/or microbiology. Academic advising of undergraduate and graduate students and service to the Division of Biology and Medicine are responsibilities assumed by all faculty members of the Department. The appointment will begin on or after July 1, 1998. Applications received by January 15, 1998, will receive full consideration. Applicants should submit a curriculum vitae including research and teaching experience, publications, and future research plans; enclose representative reprints; and have three letters of recommendation sent to:

Dr. Christine A. Biron, Chairperson of the Faculty Search Committee, Department of Molecular Microbiology and Immunology, Box G-B6, Division of Biology and Medicine, Brown University, Providence, RI 02912.

*We encourage qualified women and minority candidates.
Brown University is an Equal Opportunity/Affirmative Action Employer.*

NATIONAL CANCER INSTITUTE DIVISION OF CANCER BIOLOGY

CHIEF, CANCER GENETICS BRANCH #CA 97-2509

Opening Date: October 6, 1997 Closing Date: November 17, 1997

The Division of Cancer Biology (DCB), National Cancer Institute (NCI) is currently recruiting for a Branch Chief position which may be filled in the following series and grades: GS-401 (Biologist); 403 (Microbiologist); 440 (Geneticist); 601 (Health Science Administrator); or 1320 (Chemist) - 15. Maximum promotion potential for this position is GS-15. The announcement number is CA 97-2509.

The DCB, NCI plans, manages, coordinates and evaluates a grant and contract-supported program of extramural basic and applied research on cancer etiology, immunology, genetics and biology. The DCB, NCI, also establishes priorities and allocates resources for support of research and advises the Institute Director on opportunities and needs for extramural research in cancer etiology, biology and associated areas of science.

The Cancer Genetics Branch (CGB) plans, develops, directs and supports a national extramural program of basic research on genes that, when altered, lead to malignant transformation and tumor progression. The Chief, CGB, leads the Branch in the following activities:

- Establishing program priorities and evaluating the effectiveness of CGB programs;
- Informing and advising individual scientists and institutional science management officials on scientific opportunities, NCI program priorities, NIH and NCI funding instruments, scientific review policies and procedures, and preparing grant applications;
- Recommending funding priorities and strategies for the support of cancer genetics-related research to DCB and NCI management; and
- Planning, organizing and conducting meetings and workshops to further program objectives, identifying and evaluating new research trends, and interacting with the scientific community to facilitate advances in cancer genetics research.

Salary ranges from \$75,935 - \$98,714 per annum. Benefits: Health and life insurance options, retirement, paid holidays, vacation and sick leave. Salary includes locality pay.

BASIC QUALIFICATIONS: U.S. citizenship is required. Applicants must meet the basic experience and educational qualification requirements for U.S. government Biologist, Microbiologist, Geneticist, Health Science Administrator, or Chemist positions. In order for us to validate your qualifications, it is mandatory that you submit the following with your resume or application: A. An undergraduate and graduate transcript or a course list which includes grades and semester hours received per course for all courses; B. A current curriculum vitae; and C. A description of your proficiency in the following Knowledge, Skills or Abilities (KSAs):

- 1) Broad and current knowledge of genetics, developmental biology, molecular biology, or other biomedical research disciplines that are relevant to formulation of program goals in basic cancer genetics (Note, if you do not meet the minimum level of this KSA, you will not receive further consideration for the position);
- 2) Ability to plan, develop and implement a comprehensive scientific research program in basic cancer genetics including the formulation of program objectives, goals, and initiatives;
- 3) Ability to provide scientific leadership; manage scientific programs, resources, and personnel; set program priorities; and assess program effectiveness;
- 4) Ability to communicate clearly in writing about scientific and administrative issues;
- 5) Ability to communicate clearly orally about scientific and administrative issues;
- 6) Ability to establish and maintain effective collaborative relationships with other scientists and with institutional administrative staff.

APPLICATION PROCEDURES: The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruiting bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1899 for CA 97-2509. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please contact Mr. Kuong Tran, Personnel Management Assistant, NCI, at (301) 402-2812.

Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form by the closing date to Mr. Tran at: THE NATIONAL CANCER INSTITUTE, Personnel Management Branch, 6120 Executive Boulevard, Executive Plaza South, Room 550, Rockville, Maryland 20852. NIH is an Equal Opportunity Employer.

POSITIONS OPEN

PHYSIOLOGIST

The Department of Biological Sciences, Benedictine University, invites applications for a tenure-track **ASSISTANT PROFESSOR** position in physiology. The successful candidate will teach human physiology/animal physiology, laboratory techniques in cell biology, advanced course(s) in her/his field of expertise, and participate in the Science Division's HHMI-funded interdisciplinary laboratory. The position requires excellence in teaching and advising, evidence of potential for scholarly development, and commitment to undergraduate research activities. Applicants must have a Ph.D.

Candidates should provide: curriculum vitae, statement of educational philosophy and description of research interests, copies of undergraduate and graduate transcripts, and three current letters of recommendation (under separate covers) to: **John Mickus, Chairman, Department of Biological Sciences, Benedictine University, 5700 College Road, Lisle, IL 60532. E-mail: jmickus@ben.edu.** Consideration of applications will commence on November 15, 1997, and will continue until position is filled. *Equal Opportunity Employer.*

BIOLOGY

CELL BIOLOGIST. ASSISTANT PROFESSOR, full-time, renewable position, beginning August 1998, to teach cell biology and contribute to other introductory and upper-level courses. Additional expertise in one or more of the following areas is desirable: biochemistry, development, immunology, virology. Ph.D. required; postdoctoral experience highly desirable.

Applicants must demonstrate excellence in undergraduate teaching and have developed a research program that can involve undergraduates, including collaborative publication. Experience in a small college setting desirable. Ursinus College, northwest of Philadelphia in a suburban setting, is a highly selective, residential, coed liberal arts college of 1,200 students with a long tradition of strength in science. Laboratory facilities, supported by numerous grants from NSF and HHMI, are outstanding.

Send letter of application, curriculum vitae, and letters of recommendation to: **Dr. Ellen Dawley, Co-Chair, Department of Biology, Ursinus College, Collegeville, PA 19426-1000** by December 1, 1997. *Ursinus College is an Equal Opportunity Employer/Affirmative Action.*

RESEARCH SCIENTIST

This position is a Research Scientist position in an established laboratory with a primary interest in the amyloid diseases, including dialysis amyloidosis and cerebrovascular amyloidosis in Alzheimer's disease and related disorders. The qualified person should have a Ph.D. in molecular, biology, biochemistry, pathology, or microbiology and have prior Research Scientist experience in any of these areas. A variety of molecular and biochemical techniques will be employed, including hybridization and blotting, isolation of proteins and peptide, and sequence analysis. The incumbent will join an established laboratory, and should be willing and able to assume an independent role in the design, execution, and interpretation of experimental work.

Please forward your résumé to: **Daniel Calto, Department Administrator, Department of Rheumatology, Box 1244, One Gustave L. Levy Place, New York, NY 10029-6574. E-mail: d.calto@smtp.link.mssm.edu.** *We are an Equal Opportunity Employer fostering diversity in the workplace.*

SCIENTIST SENIOR SCIENTIST

Scientist/Senior Scientist position for Ph.D. involving lipid-based drug delivery systems. Position involves short-term, product-related, applied research. Expertise in lipid biophysical techniques and chemical analysis is required. Candidate with postdoctoral and/or pharmaceutical experience will be given preference.

We offer a competitive salary and comprehensive benefits. Interested candidates should send a résumé to: **The Liposome Company, Inc., Human Resources Department, 1 Research Way, Princeton, NJ 08540. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available in a well-funded lab investigating chemotherapeutic drugs, DNA damage/repair, and gene therapy in the lung. Hands-on experience in molecular biology essential. Background in aerosol or liposome delivery systems a plus. Send curriculum vitae to: **W. J. Martin, M.D., Indiana University, 425 WD OPW, 1001 West 10th Street, Indianapolis, IN 46202.**

ASSISTANT RESEARCH SCIENTIST UNIVERSITY OF IOWA DEPARTMENT OF PEDIATRICS

A position is available for a Ph.D. with a strong background in molecular biology to lead a group conducting large-scale arraying, sequencing, and mapping of rat cDNAs. This individual will oversee the overall operation on a daily basis, will implement effective quality control and tracking systems to secure highest data quality and integrity, will conduct further developmental research as needed to maximize data quality and enhance overall efficiencies, and will serve as a liaison with the informatics group to facilitate timely data release and clone distribution. Requires: Ph.D. in biological science, genetics, or molecular biology or equivalent; experience in DNA sequencing, PCR, and molecular biology; research work that included publication record in peer-reviewed journals or co-investigator status on externally funded research project. Desirable: Supervisory experience; experience with automated DNA sequencing, radiation hybrid mapping, and computer knowledge of programs used for linkage analysis, database searches, and DNA sequence analysis. Please submit a curriculum vitae along with three letters of reference to: **Janice McBride-Rahn, University of Iowa, Department of Pediatrics, Attn: #97, 200 Hawkins Drive—2633 JCP, Iowa City, IA 52242-1083. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply.**

PROJECT MANAGER

The Ernest Gallo Clinic and Research Center—a dynamic, nonprofit research facility located at the University of California, San Francisco—is seeking a Project Manager for Clinical/Basic Research Projects. Our ideal candidate will possess a minimum of three years of experience as a Clinical Project Manager, as well as outstanding communications, Internet, and computer (database and spreadsheet) skills. A background in recruitment for genetic or behavioral studies is highly preferred, as is experience in budget management and reporting. Please forward your résumé with salary history to: **Ernest Gallo Clinic and Research Center, Attn: HR-PM, 1001 Potrero Avenue, Building 1, Room 101, San Francisco, CA 94110. FAX: 415-648-7116.**

POSTDOCTORAL POSITION NATIONAL CANCER INSTITUTE

A Postdoctoral position is available immediately to study antigen presentation and the molecular mechanisms regulating intracellular trafficking of membrane proteins in B and T lymphocytes. Present studies include analysis of the molecular interactions between transport vesicle and target membrane SNARE proteins, the role of phosphorylation in regulating MHC protein sorting, and reconstitution of intracellular protein transport to antigen processing compartments in cell-free systems. Applicants must have no more than three years of postdoctoral experience. Applicants should submit a curriculum vitae and names of three references directly to: **Dr. Paul A. Roche, Experimental Immunology Branch, National Cancer Institute, National Institutes of Health, Building 10, Room 4B17, Bethesda, MD 20892-1360. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in intracellular signaling. Position is available to study MEK and MAP kinase regulation in mammalian cells. The qualified applicant must have background in signaling using either molecular cloning or biochemical approaches. Good communication and writing skills are required. Please send curriculum vitae, statement of research interests, and names of three references to: **Dr. Kaladhar B. Reddy, Wayne State University, Department of Pathology, 540 East Canfield Avenue, Detroit, MI 48201. FAX: 313-577-0057; e-mail: kreddy@med.wayne.edu. Equal Opportunity Employer/Affirmative Action.**

POSITIONS OPEN

POSTDOCTORAL POSITION DEPARTMENT OF MICROBIOLOGY BOSTON UNIVERSITY School of Medicine

A Postdoctoral position is available immediately in the Department of Microbiology to study the molecular mechanisms of hepatitis B virus replication and pathogenesis, with a focus on virus host interactions (*PNAS* 93:1060, 1996; *EMBO J.* 16:59, 1997). The successful candidate should have a Ph.D. or M.D. degree (or equivalent) with a background and research experience in molecular biology and virology. Expertise in protein purification is desirable. Interested applicants should send their curriculum vitae and names of three references to: **Jianming Hu, M.D., Ph.D., Department of Microbiology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394. E-mail: jmhu@bu.edu; FAX: 617-638-4286. Equal Opportunity Employer.**

The Unit on Gene Mapping and Expression of the Clinical Neurogenetics Branch, NIMH, NIH, is seeking a **STAFF FELLOW** to conduct positional cloning in bipolar disorder. This includes isolation of transcripts, high-resolution physical mapping, development of and scanning for polymorphisms/mutations. Applicants must have either a Ph.D. or an M.D. with relevant postdoctoral experience. A candidate with less experience will be considered if uniquely qualified. The scientist must have a strong interest and commitment in locating genes for a complex mental disorder in broad susceptibility regions. The period of research can begin as early as November 1997. Candidates should send their curriculum vitae and names of three references to: **Dr. S. D. Detera-Wadleigh and Dr. Elliot S. Gershon, NIMH/NIH, Building 10 Room 3N218, 9000 Rockville Pike, Bethesda, MD 20892-1274. E-mail: sevilla@helix.nih.gov and elliotg@helix.nih.gov. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in molecular cell biology of herpesvirus proteases available immediately. Studies will include mapping of functional domains and construction of mutant viruses. Experience in molecular biology and biochemistry required. Send applications including curriculum vitae, reprints, and the names, addresses, and telephone numbers of three references to: **Dr. Barry Holwerda, Department of Veterinary Pathobiology, University of Missouri, Columbia, MO 65211. E-mail: vmbarry@vetmed.missouri.edu; FAX: 573-884-5414. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL ASSOCIATE. NIH-funded position available immediately in molecular cardiology in the Department of Medicine, Baylor College of Medicine. Research will be in molecular genetics of myotonic dystrophy. Applicants should have a Ph.D. and a strong background in molecular biology and protein biochemistry. Send curriculum vitae with three references to: **Dr. Lubov Timchenko, Department of Medicine, Section of Cardiology, Baylor College of Medicine, Houston, TX 77030. E-mail: lubovt@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.**

POSTDOCTORAL POSITION IN IMMUNOLOGY

One position is available immediately to pursue studies in the molecular mechanisms of autoimmunity and T cell tolerance. A strong background/interest in cellular immunology and molecular biology is desirable. Send curriculum vitae and three letters of reference to: **Ram Raj Singh, M.D., Assistant Professor, Department of Medicine, UCLA, Room 32-48, Rehab Center, Los Angeles, CA 90095-1670. E-mail: rsingh@med1.med.sch.ucla.edu.**

POSTDOCTORAL FELLOW for NIA-funded project on neuronal and physiological circuitry changes after hippocampal lesions in aged animals. Preferable experience to include slice physiology and optical imaging. Contact: **Dr. D. A. Turner, Neurosurgery, Box 3807, Duke University, Durham, NC 27710. Telephone: 919-684-6706; e-mail: turne008@mc.duke.edu.**

POSTDOCTORAL FELLOW POSITION to study mechanism of agonist-evoked translocations of phospholipase C- β isoforms in smooth muscle cells. Lipid and/or protein biochemical experience desirable. Contact: **Dr. Ronald F. Coburn, Department of Physiology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. FAX: 215-573-5851.**

Research Corporation Technologies, an independent technology management company, invites applications for the position of

LIFE SCIENCES ASSOCIATE

Applicants should have a Ph.D. in biological science with expertise in immunology or cell biology, and industrial experience in product-oriented research and development. The position requires strong written, oral and interpersonal communication skills.

Associates in the Life Sciences Group:

- appraise technologies from universities and other research institutions for utility and likely long-term value in competitive markets;
- oversee patent prosecution for technologies;
- work closely with RCT's Venture Development Group, which creates and implements development plans to add value to early-stage life and medical sciences technologies showing significant potential value;
- identify appropriate commercial partners for technology development;
- develop commercialization strategies to maximize the potential value of technologies;
- negotiate licenses and other technology development agreements.

Research Corporation Technologies offers a competitive salary, generous benefits and short- and long-term incentive compensation plans. Send résumé in confidence to:

Director
Life Sciences Group
Research Corporation Technologies
101 N. Wilmot Road, Suite 600
Tucson, AZ 85711-3365
<http://www.rctech.com>



Equal opportunity employer



TWO TENURE-TRACK FACULTY POSITIONS MOLECULAR ENZYMOLOGY EUKARYOTIC MOLECULAR BIOLOGY

As part of an ongoing rebuilding program, the **Department of Biochemistry and Molecular Biology** invites applications to fill faculty positions in each of the areas listed above. Although emphasis will be on junior faculty, we will consider applicants at all levels. For the **Molecular Enzymology** position, we seek an individual whose research interests focus on the mechanisms of enzyme catalysis employing modern molecular techniques. The **Eukaryotic Molecular Biologist** should be studying fundamental cellular processes at the molecular level. Successful applicants will be expected to develop an independent research program using modern biochemical, molecular biological, and biophysical techniques to address a significant biological problem. Generous start-up packages and laboratory space are available to initiate the research programs.

Applicants should have a doctoral degree and relevant postdoctoral experience. Demonstrated excellence in research and clear indications of an ability to initiate a strong research program are essential. Candidates should also be able to function effectively as a lecturer and in more informal teaching situations at all levels. Interested individuals should send a complete curriculum vitae, at least three letters of recommendation, a brief description of previous research experience and future research plans, and reprints of most significant work to: **Dr. Murray Deutscher, Faculty Search, University of Miami School of Medicine, P.O. Box 016129, Miami, FL 33101-6129.**

Review will begin immediately and continue until the position is filled. Please indicate the position for which you are applying.

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

ANNOUNCEMENT

CALL FOR APPLICATIONS

CENTER FOR INHERITED DISEASE RESEARCH

The Center for Inherited Disease Research (CIDR) is a resource to provide high throughput genotyping services to research efforts that are attempting to identify genetic loci and allelic variants involved in human disease. CIDR concentrates primarily on multifactorial hereditary disease in humans although linkage analysis of single gene disorders can also be accommodated. Using samples provided by the principal investigators, CIDR carries out genome-wide scans for parametric and non-parametric linkage analysis using automated fluorescent technology to detect microsatellite markers with ~10 cM average spacing. Consultation on study design and statistical analysis are available as additional, and optional, services to investigators. The data and analyses will remain the property of the principal investigator and, once the studies in CIDR are complete, will be returned to the principal investigators for further research.

CIDR is a joint effort by eight participating institutes at NIH: the National Cancer Institute (NCI), the National Human Genome Research Institute (NHGRI), the National Institute of Child Health and Human Development (NICHD), the National Institute on Deafness and Other Communication Disorders (NIDCD), the National Institute on Drug Abuse (NIDA), the National Institute of Environmental Health Sciences (NIEHS), the National Institute of Mental Health (NIMH), and the National Institute of Neurological Disorders and Stroke (NINDS). CIDR is located at the Bayview Research Campus of the Johns Hopkins University and is operated by the university through a contract from the NIH.

For a special introductory period, investigators whose projects are supported by one of the eight NIH Institutes participating in CIDR will receive free genotyping. Other investigators supported by an NIH institute not participating in CIDR or from another governmental or non-profit institution will be charged \$1.00 per genotype (DNA sample x microsatellite marker).

Access to CIDR is open to all investigators on a competitive basis through peer review. For a more complete description of CIDR, including specific application procedures, visit our Website at <http://www.cidr.jhmi.edu/>. If you would like additional information, contact Dr. Jerry Roberts, Scientific Review Administrator and Executive Director, CIDR Board of Governors, in the NHGRI Office of Scientific Review.

Application Deadlines

* November 1 ■ March 1 ■ July 1

Jerry Roberts, Ph.D.
National Institutes of Health
National Human Genome
Research Institute
38 Library Drive MSC 6050
Building 38A, Room 609
Bethesda, MD 20892-6050
(301) 402-0838
FAX (301) 480-2770
jerry_roberts@nhgri.nih.gov



* The November 1997 deadline has been extended to November 15

POSITIONS OPEN

RESEARCH ASSOCIATE POSITION AND POSTDOCTORAL POSITION IN GYNECOLOGIC ONCOLOGY

The University of Rochester, Department of Obstetrics and Gynecology, is seeking to fill two positions: one as Research Associate and one as a Postdoctoral Fellow. Applicants must possess a Ph.D. with experience in molecular biology, yeast genetics, and bacterial genetics. Research will focus on the development of a two-hybrid yeast system. Another project will entail the preparation of deletion mutants in ovarian cancer cell lines and development of knockout mice for the specific proteins under study. Send curriculum vitae to: **Dr. Lorna Rodriguez, Department of Obstetrics/Gynecology—Gynecologic Oncology, University of Rochester, 601 Elmwood Avenue—Box 668, Rochester, NY 14642. FAX: 716-442-0479.**

U.S. citizenship or permanent residency required. Members of underrepresented minority groups are particularly encouraged to apply.

RESEARCH ASSISTANT PROFESSOR/ POSTDOCTORAL POSITIONS MOLECULAR CHARACTERIZATION OF ION CHANNEL PROTEINS

Research Assistant Professor and Postdoctoral positions are available immediately at the University of Rochester to investigate the molecular physiology of secretion in exocrine gland cells. Structure/function studies will include the cloning and *in vitro* expression of channel proteins. We seek a Ph.D. with experience patch clamping native cells, especially epithelial cells, and a second Ph.D. with molecular biology background in cloning and expression of proteins. Send curriculum vitae and the names of three references to: **Dr. James E. Melvin, School of Medicine and Dentistry, Box 611, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. FAX: 716-473-2679; e-mail: james_melvin@urmc.rochester.edu. Equal Opportunity Employer.**

MOLECULAR GENETICS/VIRAL ONCOLOGY

A POSTDOCTORAL POSITION is available immediately to investigate the mechanism by which topoisomerase I participates in hepatitis B virus replication in the liver and integration into host chromosomes via illegitimate recombination. Applicants should have experience in molecular and cellular biology and preferably virology. Please send curriculum vitae and names of three references to: **Charles E. Rogler, Ph.D., Liver Research Center, Department of Medicine, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS in microbiology and immunology available immediately. Projects related to molecular biology and characterization of retroviral regulatory fragments. Emphasis will be on their interactions with the host immune system. Experience in molecular biology and cell culturing techniques required. Send curriculum vitae and reference list to: **Dr. Terry McNearney, Division of Rheumatology, 405 Clinical Science Building, University of Texas Medical Branch, Galveston, TX 77555-0759. E-mail: tmcnearn@utmb.edu. University of Texas Medical Branch is an Equal Opportunity/Affirmative Action Employer, Minority/Females/Disabled/Veterans.**

POSTDOCTORAL POSITION available to study the role and regulation of the MYCN oncogene in the pediatric cancer, neuroblastoma. Extensive experience in molecular biology and cell culture preferred. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae and three letters of recommendation (with telephone numbers) to: **Susan Cohn, M.D., Robert H. Lurie Cancer Center, Northwestern University, Olson Pavilion Room 8313, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-1372; e-mail: scohn@nwu.edu. Northwestern University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available in human tumor immunology. Project focuses on: growth expansion of human cancer specific T cells; determination of TCR; and development of novel methods to assess T cell function. Experience in molecular and cellular immunology, with emphasis on the growth of human T cells, preferred. Please send curriculum vitae and the names of three references to: **Dr. Mary L. (Nora) Disis, Division of Oncology, Box 356527, University of Washington, Seattle, WA 98195-6527. FAX: 206-616-1823.**

POSITIONS OPEN

POSTDOCTORAL POSITION IN FUNCTIONAL NEUROANATOMY NIMH

A STAFF FELLOWSHIP position is available to apply molecular and histochemical techniques to study the neuroanatomical bases for the brain's response to physiologic and pharmacologic challenges. The candidate should have a strong background in molecular biology and an interest in using localization techniques to attack problems in several areas including immune-to-brain signaling (NF- κ B mediated actions), cannabinoid receptor-mediated functions, phenotypic alterations in genetically altered mice (knockouts and transgenics), and models of structural plasticity. Opportunity to carry out independent work, with guidance and excellent facilities provided. Applicants must have a Ph.D. or M.D. with no more than seven years of postdoctoral research experience, and must be U.S. citizens or permanent residents. For additional information, see: **website: <http://intramural.nimh.nih.gov/lcmr/sfn/>. Write to: Miles Herkenham, Ph.D., Section on Functional Neuroanatomy, NIMH, Building 36, Room 2D15, 36 Convent Drive, Bethesda, MD 20892-4070. The NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA

Postdoctoral position is available for study and training with a group of investigators interacting in programs concerning the Metabolism and Molecular Biology of Connective Tissues. Topics include: Structure and Biology of Basement Membranes, Molecular Biology of Elastin, Immunopathology of Renal Disease, Molecular Biology of Collagen Genes, Cell Biology of Pulmonary and Vascular Cells, Molecular Biology of Cartilage Matrix, Keratinocyte Differentiation and Matrix Synthesis.

Send résumé to: **Nicholas A. Kefalides, M.D., Ph.D., Director, Connective Tissue Research Institute, University of Pennsylvania, University City Science Center, 3624 Market Street, Philadelphia, PA 19104. Candidates should hold U.S. citizenship or permanent resident status. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITION AARON DIAMOND AIDS RESEARCH CENTER

A Postdoctoral position is available immediately in the laboratory of **Dr. John Moore**. The project will involve studies of humoral immunology in the context of HIV vaccine development. Virology/immunology/molecular biology experience will be required. Send curriculum vitae and names of three references to: **Dr. John Moore, Aaron Diamond AIDS Research Center, 455 First Avenue, New York, NY 10016. The Diamond Center is an affiliate of The Rockefeller University. The Diamond Center is an Equal Opportunity Employer.**

STANFORD UNIVERSITY MEDICAL SCHOOL

POSTDOCTORAL POSITION to study mechanisms of insulin signal transduction. Background in biochemistry, cell biology, and/or molecular biology. Applicant should have gained a Ph.D. within the last three years. Send curriculum vitae and names of three references to: **Dr. Richard Roth, Department of Molecular Pharmacology, Stanford University School of Medicine, Stanford, CA 94305. FAX: 415-725-2952; e-mail: rroth@stanford.edu.**

POSTDOCTORAL POSITION in cancer metastasis research is open immediately. This is a one-year appointment with possibility for renewal. Background in mammalian cell culture techniques, molecular biology, and biochemical assays is essential. Send inquiry, curriculum vitae, and three references as soon as possible to: **Dr. G. V. Glinesky, M.D., Ph.D., Cancer Research Center/MetaStat, Inc., 3501 Berrywood Drive, Columbia, MO 65201. FAX: 573-443-1202; e-mail: gennadi_glinesky@muccmail.missouri.edu.**

POSTDOCTORAL POSITION available per 1 April 1998 to study mechanoreception and flow detection in lobsters. Experience in electrophysiology is essential. Experience in mechanosensory biology is preferred. Please send curriculum vitae and the names of three references to: **Jelle Atema, Ph.D., Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA 02543 USA. Telephone: 508-289-7499; FAX: 508-289-7950; e-mail: atema@bio.bu.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS are available for training in neuroscience-oriented approaches to drug abuse research through a training program funded by the National Institute of Drug Abuse. Research emphases include design of novel ligands for receptors, molecular biology of receptors, receptor-mediated signal transduction, and cellular mechanisms and pathways underlying pain and analgesia. Trainers include: **D. R. Brown, R. P. Elde, G. J. Giesler, A. A. Larson, P.-Y. Law, H. Loh, P. Portoghesi, V. S. Seybold, B. Sharp, S. Thayer, M. Wessendorf and G. Wilcox** (faculty pages at **website: <http://web.neuro.umn.edu>**). Eligible candidates must have completed a Ph.D. degree or equivalent by the time of appointment and must be U.S. citizens or permanent residents. Address applications (curriculum vitae, three letters of recommendation, and statement of training goals) or inquiries to: **V. Seybold, Ph.D., Department of Cell Biology and Neuroanatomy, University of Minnesota, 4-144 Jackson Hall, 321 Church Street S.E., Minneapolis, MN 55455. E-mail: ginger@med.umn.edu. The University of Minnesota is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITION

The University of Medicine and Dentistry of New Jersey (UMDNJ)—Robert Wood Johnson Medical School's Department of Neuroscience and Cell Biology has a Postdoctoral position immediately available to study the neurotrophic regulation of synaptic plasticity in the brain. Candidates with backgrounds in whole-cell patch clamping, single-channel recording, and the use of cell culture and slice preparations would be most appropriate. Ph.D. in neurobiology preferred. Please send applications including curriculum vitae and names of three references to: **Ira B. Black, M.D., Professor and Chair, Department of Neuroscience and Cell Biology, UMDNJ—Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.**

POSTDOCTORAL POSITION

A position is available immediately to study the regulation of stress-activated signal transduction pathways and transcription of cytokine genes in keratinocytes. Candidates with experience in protein kinase/phosphatases, G proteins, and molecular biology in animal or plant systems are especially encouraged to apply. Send curriculum vitae and three references to: **Faith Strickland, Ph.D., Department of Immunology-178, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. FAX: 713-794-1322; e-mail: fstrickl@notes.mdacc.tmc.edu. Equal Opportunity Employer. Smoke-free environment.**

Two POSTDOCTORAL RESEARCH ASSOCIATE positions in molecular neurobiology are available immediately to study the composition, origin, and cellular trafficking of mRNA in the axon and presynaptic nerve terminal. Candidates must have less than five years of previous postdoctoral training. Experience in molecular/cellular biology is preferred. Send curriculum vitae and three letters of reference to: **Barry B. Kaplan, Ph.D., National Institute of Mental Health, Building 10, Room 4N-222, 10 Center Drive, Bethesda, MD 20892-1381. E-mail: kaplan@irp.nimh.nih.gov. The NIMH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available to study regulation of transgene expression in the nervous system using herpes simplex virus-based gene transfer vectors (*Ann. Rev. Neuroscience* 19:265, 1996; *Nature Med.* 3:357, 1997). Requires M.D. or Ph.D. and experience in either neuroscience or virology. Send curriculum vitae and the names of three references to: **Dr. David Fink, Department of Neurology, Molecular Genetics and Biochemistry, s-520 Biomedical Science Tower, University of Pittsburgh, Pittsburgh, PA 15213. E-mail: dfink@med.pitt.edu.**

POSTDOCTORAL POSITION in signal transduction available to study the role of paxillin and associated proteins in cell adhesion-related signaling and cytoskeletal organization. Experience in cell biology and/or molecular biology techniques essential. A background in cell adhesion or signal transduction is desirable. Send curriculum vitae and references to: **Dr. Chris Turner, c/o Personnel Office—Job #5098, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. An Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.**

Ceres, Inc.

Plant Bioscience

Bioinformatics

Ceres, Inc., a Los Angeles based venture-capital backed company, applies high-throughput genomic technologies to plants with the aim of identifying genes that will improve quantitative and qualitative traits in commercially important crops.

We are seeking Senior Scientists to conduct research in a discovery-oriented, multidisciplinary team setting. Successful candidates will have a Ph.D. and experience in an area relevant to bioinformatics. Familiarity with UNIX systems and use of nucleic acid and protein database programs is desirable. The successful candidates will be responsible for maintaining and developing databases, which contain public and proprietary sequence data, and will interface with molecular geneticists and biochemists to identify agriculturally important target genes. Candidates should have at least two years of postgraduate experience or equivalent and excellent communication skills.

Ceres, Inc. is located in the West Los Angeles area and offers competitive salaries and excellent benefits package, including equity participation. Ceres, Inc. invites highly motivated researchers who want to become part of its research team to send a CV to:

Ceres, Inc., Human Resources Manager
914 Westwood Blvd., Suite 567
Los Angeles, CA 90024.

Ceres is an Equal Opportunity Employer.

BODEGA MARINE LABORATORY

University of California, Davis

The Bodega Marine Laboratory, a research unit of the University of California, Davis, invites applications for two faculty positions, each at the Associate or Full Professor level. Applicants must have a Ph.D. (or equivalent), demonstrated excellence in research and teaching, and recognition at the international level.

Marine Ecologist: We are particularly interested in receiving applications from scientists working in intertidal/near shore habitats, and whose research will take direct advantage of the diverse ecosystems of the north-central California coast where the Laboratory and its protected 364 acres of terrestrial and marine reserve are located.

Comparative Physiologist/Biochemist: We are particularly interested in receiving applications from scientists who are applying modern techniques of biochemistry, physiology, and/or molecular biology to the study of organisms living in the intertidal/near shore environments.

In addition to research, teaching, and advising responsibilities, each appointee will serve as one of the Laboratory's coordinators for research and instruction: one in ecology and the other in organismic biology. In those roles, the successful applicants will facilitate interactions between the Laboratory and its resident personnel, and faculty and students whose main location is the Davis campus.

The positions are at the Laboratory full time, although the appointee will also be a member of an appropriate academic unit at Davis. Applicants should provide a letter describing their research and teaching interests, plans for the future of these activities, curriculum vitae, two carefully selected reprints, and the names, addresses (including e-mail), and phone numbers of four persons who have agreed to write letters of reference. This information should be sent to **J. S. Clegg, Bodega Marine Laboratory, P.O. Box 247, Bodega Bay, CA 94923**. The Selection Committee will begin review of applications on Jan. 15, 1998; the positions will remain open until filled.

The University of California, Davis, is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.



NATIONAL CANCER INSTITUTE FREDERICK CANCER RESEARCH AND DEVELOPMENT CENTER FREDERICK, MARYLAND

Opening Date: October 14, 1997

Closing date: December 15, 1997

Announcement Number: CA-97-1109

The National Cancer Institute is paving the way for new programs and discoveries at the Frederick Cancer Research and Development Center (NCI-FCRDC). In collaboration with **Dr. John Coffin**, we are creating a world-class center for retrovirology research in a highly collaborative environment dedicated purely to research with very strong support services. Our emphasis will be on basic and translational research related to genetic diversity and drug resistance.

The NCI-FCRDC is recruiting for approximately 6 positions, which will be filled by Senior Investigators (Senior Biomedical Research Service and/or Medical Officer with potential physician special pays) and Tenure-Track investigators. These individuals must be self-directed scientists with a medical and/or doctorate degree who will undertake independent, investigator-initiated studies in the area of biochemistry of virus populations, clinical studies on virus dynamics and population genetics, mechanism of genetic variation, small animal studies, medicinal chemistry, and translation/development with the opportunity for extensive collaboration within and outside of the NCI community.

A fully equipped laboratory will be provided along with technical support. Total annual compensation will be commensurate with experience, accomplishments, and education. A detailed description of research interests should be submitted along with 5 letters of recommendation and curriculum vitae and bibliography to:

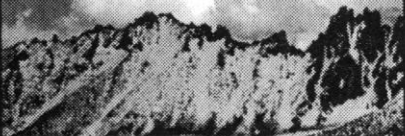
Ms. Toni McKeown (1109)
National Cancer Institute
Human Resource Management Consulting Branch
6120 Executive Boulevard
Room 550, EPS
Rockville, MD 20852

The Search Committee will begin reviewing complete applications after November 14, 1997. For consideration, all applications must be postmarked by December 15, 1997. Applications may also be faxed to **(301) 402-9333**. If you need additional information, please call **Dr. Marjorie Strobel, Search Committee Executive Secretary**, at **(301) 846-1302** or **(301) 846-5936**.

Selection for these positions will be based on merit, without discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization.

**THE NATIONAL CANCER INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER**

MYRIAD GENETICS, INC. Research Opportunities



Salt Lake City, UT

Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, diabetes, obesity, and osteoporosis. Expansion of our gene identification and gene characterization efforts provides a number of exciting opportunities for highly motivated individuals. To learn more, visit our Web Page at: www.myriad.com.

Senior Research Associates

You will be part of a team that is developing and implementing high-throughput assays to understand gene function. Requires MS or BS and 2 years' experience in molecular biology. Knowledge of molecular biology techniques such as PCR and cloning are essential. Experience with yeast is desired, but not required.

Research Associates

You will join a positional cloning team whose goal is to clone disease-predisposition genes identified through genetic linkage analysis. Knowledge of molecular biology techniques is required. Computer experience in Macintosh or Unix environments is desired. B.S. degree with a minimum of one year experience in molecular biology.

Sequence Analysts

You will be part of a team that is analyzing molecular sequence data and curating a database of biological information. Requires a MS or BS in biology and relevant computer (UNIX, MacOS) experience. Familiarity with GenBank, search algorithms (e.g. Blast), assembling molecular sequence data, and Sybase/SQL is preferred.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax a cover letter, specifying the position you are applying for, a complete resume, and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. FAX: 801-584-3640. EOE.



POSITIONS OPEN

PREDOCTORAL AND POSTDOCTORAL POSITIONS UNIVERSITY OF MINNESOTA Department of Pharmacology

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, 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 of both predoctoral and postdoctoral applicants is: **Department of Pharmacology, University of Minnesota, 3-249 Millard Hall, 435 Delaware Street S.E., Minneapolis, MN 55455**.

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

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

Research positions are available for studies of ion channel regulation in epithelial cells using electrophysiologic, biochemical, and gene expression methods. Join an established, multidisciplinary group with expertise in cellular and molecular mechanisms of epithelial ion transport, their alteration in disease and their manipulation by drugs, which includes **Dr. R. J. Bridges, Dr. N. A. Bradbury, Dr. D. C. Devor and Dr. R. A. Frizzell**.

Send curriculum vitae and three references to: **Wendy Bell, Administrator, Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, 3500 Terrace Street, S362 BST, Pittsburgh, PA 15261 USA**.

THE REGULATION OF CELLULAR PROLIFERATION AND DIFFERENTIATION

The H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida is seeking applications for **POSTDOCTORAL** and **RESEARCH ASSOCIATE** positions to investigate the regulation of cyclin dependent kinase activities and how these activities alter cellular proliferation and differentiation. Highly motivated individuals are sought to investigate the molecular mechanisms that control the cell cycle and bring about terminal growth arrest during differentiation. Outstanding research environment and competitive compensation. Send curriculum vitae and the names of three references to:

W. J. Pledger, Ph.D.
Associate Center Director for Basic Research
H. Lee Moffitt Cancer Center and Research Institute
12902 Magnolia Drive
Tampa, FL 33612

POSTDOCTORAL POSITION to develop new fluorescent dyes and techniques for labeling nucleic acids and to participate in the development of DNA separation and detection methodologies for sequencing and diagnostics. Successful applicants will participate in a collaborative research effort with **A. N. Glazer and R. A. Mathies** in the Departments of Chemistry and Molecular and Cell Biology. Experience in synthetic organic chemistry is required; physical biochemistry and spectroscopy desirable. Send résumé and letters of recommendation by December 1 to: **Dr. Richard A. Mathies, Department of Chemistry, University of California, Berkeley, CA 94720**. E-mail: rich@zinc.cchem.berkeley.edu. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION is available to study transcriptional regulation of intestinal and pancreatic endocrine cell differentiation (*Genes Dev.* 11:2323, 1997; *PNAS* 94:3560, 1997; *Development* 122:1157, 1996). Must have experience in molecular biology. U.S. citizenship or permanent residency required. Submit curriculum vitae to: **Andrew B. Leiter, M.D., Ph.D., GI Division #218, New England Medical Center, 750 Washington Street, Boston, MA 02111**. E-mail: andy.leiter@es.nemc.org. *Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE

The Laboratory of Experimental and Computational Biology, DBS, NCI, NIH, has postdoctoral positions available at the Frederick Cancer Research and Development Center. Applicants should have a recent Ph.D. in computational chemistry or biophysics. Work involves protein modeling, protein-protein recognition, and protein and drug docking. Applicant would work closely with **Drs. Jacob Maizel and Ruth Nussinov**. Supercomputing facilities are available. Salary commensurate with experience. Send curriculum vitae and bibliography to: **Ms. Patricia A. Beard, Laboratory of Experimental and Computational Biology, P.O. Box B, Building 469, Room 151, NCI-FCRDC, Frederick, MD 21702**. E-mail: beard@ncicfcrf.gov. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.*

Two **POSTDOCTORAL POSITIONS** are available for up to three years at the University of Pittsburgh Medical Center: (1) to develop novel gene therapy approaches to rheumatoid arthritis and (2) to examine granulocyte colony-stimulating factor receptor structure and signaling in normal and leukemic myeloid cells. Experience in molecular biology, cell signaling, and/or genetic mouse models is essential. Interested candidates should send curriculum vitae and names of three references to: **Dr. David J. Tweardy, Departments of Medicine and Molecular Genetics and Biochemistry, Biomedical Science Tower W1052, 200 Lothrop Street, Pittsburgh, PA 15213-2582**. FAX: 412-624-7737; e-mail: tweardy+@pitt.edu.

Two **POSTDOCTORAL POSITIONS** available immediately to study regulation of gene expression during sex gland development using transgenic mouse or zebrafish as models. Those with background in endocrinology, development, or molecular biology are encouraged to apply. Please send curriculum vitae and three letters of recommendations to: **Dr. Bon-chu Chung, Institute of Molecular Biology, Academia Sinica**. FAX: 886-2-7826085; e-mail: mbchung@sinica.edu.tw; website: <http://www.sinica.edu.tw/imb/chung>.

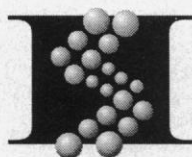
ION CHANNEL STRUCTURE AND FUNCTION

Positions available spring 1998 in a group working on glutamate receptor structure and function using physiological and molecular biological techniques. Current interests include the action of channel blockers, allosteric regulation, and analysis of desensitization. For further details see website: <http://mecko.nichd.nih.gov/Lcmn/MayerLab/Mayer.html>. Applicants must have less than five years of postdoctoral experience at the time of appointment. Send curriculum vitae and three letters of reference to: **Dr. M. L. Mayer, Building 49, Room 5A82, 49 Convent Drive MSC 4495, NIH, Bethesda, MD 20892**. *National Institutes of Health is an Equal Opportunity Employer.*

Neuroanatomist/Neurophysiologist (**POSTDOCTORAL** to **ASSISTANT PROFESSOR**) sought for identification of central neuronal pathways involved in regulation of sympathetic nervous system, particularly in relationship to blood pressure, cerebral blood flow, and neuroprotection. Experience essential. Skills/knowledge in pathway tracing and chemical/molecular neuroanatomy. Familiarity with brainstem/cerebellar, hypothalamic networks. Experience in electrophysiology desirable. Contact: **D. J. Reis/K. Koenig, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021**. *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

Molecular Neurobiologist/Immunologist (**POSTDOCTORAL** to **ASSISTANT PROFESSOR**) to study molecular mechanisms of neuroprotection/neuronal death *in vivo* in multidisciplinary neuroscience group. Background/experience in inflammation (cytokines), neurotrophic factors, cell adhesion molecules, intracellular signaling, apoptosis, and/or genomics. Contact: **D. J. Reis/K. Koenig, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021**. *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

Faculty Positions at the Huntsman Cancer Institute



HUNTSMAN
CANCER INSTITUTE

AT THE UNIVERSITY
OF UTAH

The Huntsman Cancer Institute at the University of Utah is seeking applicants for tenure-track faculty positions at the level of Assistant Professor, Associate Professor or Professor. The Huntsman Cancer Institute, with a 225,000 sq. ft. research facility opening in early 1999, is building a comprehensive research program with human cancer applications. Three to five positions are available within the next year. Investigator Groups are being formed that will focus on Cell Signaling, Cell Cycle, Transcriptional Regulation, and Cancer Biology, including apoptosis and angiogenesis. Providing an atmosphere of creativity, multidisciplinary approaches and strong institutional support, the Huntsman Cancer Institute and the University of Utah are committed to emerge as leaders in both basic and translational cancer research.

Please send CV, statement of research interests and goals and three letters of reference. For full consideration, applications should be received before December 1, 1997. Send any inquiries to: HCI.recruitment@hci.utah.edu

Send all applications to:
Huntsman Cancer Institute
University of Utah
Attention: Recruitment Office
15 North 2030 East, Rm. 4110A
Salt Lake City, UT 84112-5330

The Huntsman Cancer Institute and the University of Utah are Equal Opportunity/Affirmative Action Employers. Women, minority and international candidates are encouraged to apply.

NATIONAL CANCER INSTITUTE POSTDOCTORAL POSITIONS



Positions available immediately to study signal transduction and cell fate determination and cell movement in *Drosophila*. For references see Hou, *et al.*, 1995, *Cell* 81:63-71; Hou, *et al.*, 1996, *Cell* 84:411-419; Hou, *et al.*, 1997, *Genes & Dev.* 11:1728-1737. Positions require a Ph.D. or M.D. degree, and strong background in molecular biology. Experience in *Drosophila* genetics helpful, but not necessary. The salary range is \$25,000-\$30,000. Please send C.V. and names of three references to:

Dr. Steven Hou,
Laboratory of Immunology
Bldg. 560, Rm. 12-70
NCI-Frederick Cancer Research
& Development Center
Frederick, MD 21702
Fax: 301-846-6145

The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership in an employee organization.

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In the thirteen years since our opening, the Whitehead Institute has become a prominent resource in the world of biological research, and an integral part of MIT's teaching community. We attract the brightest scientists with promising research agendas, and then give them the freedom to pursue their own dreams. The results are nothing short of extraordinary. Join us.

Whitehead Institute / Center for Genome Research

Software Engineers

•To serve as a computational biologist responsible for meeting the informatics needs in the development of comprehensive genome maps. Responsibilities include designing, implementing, and maintaining tools and software systems in Perl, C, C++, Java, and other languages, in a UNIX and Web-based environment, as well as collaborating with scientists to develop strategies for storing, accessing, and analyzing data. Requires BA/BS plus 2 years' programming experience or MS degree, familiarity with UNIX; demonstrated coding and system building skills in Perl, C, C++, Java, or other languages. Must be technically flexible and comfortable with rapid prototyping and frequent user interaction, have excellent written and verbal communication skills, initiative, and problem-solving abilities.

Scientific Programmers

•To participate in development of DNA sequence related software projects. Will involve developing Web-based tracking and quality control software, writing Perl scripts to troubleshoot problems that arise in the lab, and automating the annotation of biologically interesting regions. Requires BA/BS in computer science or biology, experience writing software, and a strong interest in biology. Knowledge of Perl and/or C in the UNIX environment is required. Previous laboratory experience, Web development, or background in statistical analysis preferred.

Research Specialists

•To work in the Automation or Development Teams designing, implementing and providing quality control for integrated robotic workstations needed for high-throughput DNA Sequencing. Will work in collaboration with Robotic and Mechanical Engineers developing and maintaining automatable biochemical protocols. Emphasis on whole system QC and operations quality will be stressed. Requires a BS in Biology, Chemistry or Mechanical Engineering with the willingness to learn. Must be able to work in a fast-paced team environment. Familiarity with C, C++, Pascal, UNIX, and Windows NT desired. We offer excellent salaries, generous benefits (including tuition reimbursement), interaction with the MIT community, and a convenient location.

Please send resumes to: Whitehead Institute for Biomedical Research, Human Resources Department, Ref. SG/1097, Nine Cambridge Center, Cambridge, MA 02142. Equal Opportunity Employer.

Visit our Web site for more information on Whitehead and other job opportunities at:
www.wi.mit.edu



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STAFF SCIENTIST *Chemokine Group*

We are seeking a hands-on researcher with 2-4 years' post-doctoral experience to join a skilled research group whose goal is to discover and develop novel therapeutics in the chemokine field. The group is interested in the identification and characterization of novel chemokines and their receptors. Chemokines play a critical role in host defense and inflammatory response. Their receptors are G protein-coupled receptors and represent ideal targets for therapeutic intervention for several diseases, including HIV infection. Qualifications for this position include a PhD in biological or chemical sciences with a focus on cell biology, molecular biology, or protein biochemistry. (Job# GRA0797)

STAFF SCIENTIST *Lipid Mediators Group*

We are seeking a skilled professional with 2-4 years' post-doctoral experience to join a collaborative research group dedicated to the discovery of mechanisms that modulate the bioactivity of lipid mediators of inflammation. The chosen candidate will explore the interactions of various lipid mediators with their receptors, the resulting downstream signaling events, and the attenuation of the signaling events. These studies are expected to lead to the development of novel therapeutic strategies for regulating inflammation. Minimum qualifications include: MD or PhD in biological or chemical sciences and at least 2-4 years' post-doctoral experience. The successful candidate will be highly motivated and possess strong basic skills in biochemistry, particularly lipids. A solid background in cell biology and receptor-ligand interaction is desired. (Job# GRA0797)

STAFF SCIENTIST *Cell Adhesion Group*

We are looking for an individual with at least 2 years of post-doctoral experience in cellular and molecular biology to join our Cell Adhesion Group. This position involves the identification and characterization of signaling molecules that regulate integrin dependent cell adhesion and/or migration. The position is part of a collaborative effort to identify novel targets that function in specific adhesive or chemotactic pathways. Minimum qualifications include: Ph.D. with equivalent experience in a biological science, and experience with cell transfection, recombinant DNA techniques, kinase assays and immunoprecipitation. The successful candidate will be highly motivated, able to prioritize/multi-task, and possess strong written/verbal communication & interpersonal skills, including the ability to interact productively with numerous groups. (Job# STA0797)

We offer attractive compensation & benefits, generous stock options, and the opportunity to make significant scientific contributions. To apply, please reference appropriate Job# and send your resume to: **ICOS Corporation, Human Resources, 22021 20th Avenue SE, Bothell, WA 98021.** All of our job postings may be referenced at www.bio.com/companies/icos.html. For information about our company, visit us at www.researchmag.com/company/profile/cplCOS.htm.
Equal Opportunity Employer



Cadus Pharmaceutical Corporation, a leader in the discovery of drugs which regulate G protein-mediated signaling pathways, is expanding its discovery programs based upon its unique proprietary yeast and mammalian cell based screening technologies and has openings for motivated scientists in the following areas:

DRUG DISCOVERY/CELL BIOLOGY

Code: S-DD BS/MS scientists with a minimum of 2 years laboratory experience with strong background in molecular biology, mammalian cell culture, and receptor signal transduction research. Previous experience in molecular target-based drug discovery is also desirable. Qualified individuals will work within the drug discovery group exploring cellular signaling pathways and designing/implementing secondary assay systems to analyze potential therapeutics.

MAMMALIAN CELL BIOLOGY

Code: S-M BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with a minimum of 3 years post-doctoral research in mammalian cell biology and gene expression to join our assay development group. Expertise with mammalian cell culture, signal transduction analysis and strong molecular biology skills are essential. These individuals will be working with projects involving novel whole cell assay systems for G protein-coupled receptor signaling.

MEDICINAL & COMPUTATIONAL CHEMISTRY

Code: S-MC BS/MS chemist with a solid background in organic chemistry and experience in organic synthesis. Responsibilities include the synthesis, purification and characterization of novel therapeutic agents using traditional and automated synthetic methods, and the construction of libraries of small molecules targeted for G protein-coupled receptors using modern, robotic systems.

AND

Code: S-CC Ph.D. computational scientist with postdoctoral or industrial experience to apply modern computational methods in drug discovery and combinatorial chemistry. Strong background in homology building, QSAR, modeling and study of ligand - GPCR interactions and previous exposure to structure based drug design approaches required.

MOLECULAR/YEAST BIOLOGY

Code: S-MYB BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with a minimum of 3 years post-doctoral research experience in molecular biology for a project expressing mammalian signal transduction proteins in yeast. Background in cellular and molecular biology or biochemistry is required. Experience with yeast and protein analysis is preferred.

GROUP LEADER-CANCER BIOLOGY

Code: S-CB Cadus has developed a novel approach to cancer chemotherapy for small cell lung carcinoma. In order to advance this program into the clinic we are seeking a Ph.D scientist with over 5 years experience in drug discovery in the pharmaceutical/biotechnology industry. A strong background in oncology, signal transduction/cell biology is essential. This individual will be responsible for all aspects of this program including ongoing basic research, continued lead compound development and pre-IND studies. This position requires a demonstrated ability to lead a team of researchers to meet the goals of the program and to coordinate the activities of the various scientific disciplines required for a full drug discovery effort.

*Cadus offers competitive salaries and benefits as well as excellent opportunity for career growth in a stimulating collaborative environment. Send CV and List of References, indicating job code to: **Cadus Pharmaceutical Corporation, 777 Old Saw Mill River Road, Tarrytown, NY 10591-6705; or email at: hr@cadus.com.***

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CADUS

PHARMACEUTICAL CORPORATION



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Rapid growth. A strong research orientation. The drive ... and ability to set the direction for an industry. That's what you'll find at Genetics Institute.

As a result, Genetics Institute can help you find exactly what you've been looking for in your career.

The opportunity to work on today's most advanced therapeutics and support discovery of the breakthrough products of tomorrow. With its state-of-the-art technology and environment, Genetics Institute is also uniquely positioned to continue its success and growth well into the next millennium. You'll find it's a great organization for building a lasting career.

STAFF SCIENTIST, LAB COORDINATOR

Drawing on your strong management skills and demonstrated expertise in written and verbal communications, you will lead our effort in an investigation of normal and diseased articular cartilage metabolism in response to cytokines and mechanisms of cartilage repair and differentiation. To qualify, you must have a Ph.D. or equivalent, and 3 years of postdoctoral experience in the fields of molecular and/or cellular biology. Experience in connective tissue biology is desired but not required. The ability to work well in a collaborative environment is essential. **Job Code: S10-HM**

For consideration, please send or fax resume, suitable for scanning (see below), to: Human Resources, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Fax: (617) 876-8847.

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

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UCLA

TENURE-TRACK FACULTY POSITION NEUROPHYSIOLOGY

The Department of Physiology at UCLA School of Medicine invites applications for a tenure-track faculty member in the general area of neurophysiology. While the focus of our search is in the areas such as development, information processing, and plasticity in the mammalian central nervous system, we will consider candidates in other areas of biophysics and physiology. Candidates are required to have a Ph.D. and/or M.D. degree, show evidence that they can develop an independent research program with extramural support, and are expected to participate fully in the teaching mission of the Department. An excellent environment exists within the Department and School to build a highly successful academic career. This includes newly remodeled research space, set-up funds, and other active research programs in biophysics and cellular, molecular, and systems physiology. Visit our website: <http://www.medsch.ucla.edu/som/physio>. Applicants should send a letter with a statement of research interests and goals, the names of three references, and their curriculum vitae to:

Chair, Neurophysiology Search Committee

Department of Physiology

UCLA School of Medicine

Los Angeles, CA 90095-1751

Fax: (310) 206-5661

E-mail: dmooreche@physiology.medsch.ucla.edu

Review of applications will continue until a suitable candidate has been identified.

METABOLISM AND STRUCTURAL BIOLOGY RESEARCH PROGRAM SCIENTIFIC PROGRAM MANAGER NIH RESEARCH ADMINISTRATION

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) seeks a scientist with expertise in cell and/or structural biology (Ph.D. or equivalent) to serve as **Director, Metabolism and Structural Biology Research Program**. The successful candidate will have independent research experience, excellent interpersonal and written communications skills, and the ability to identify research priorities and opportunities. The position involves scientific administration of grants and contracts, program planning and development, close interaction with leading researchers, and the opportunity to organize and/or attend scientific meetings. The position (GS-13/14) salary range for this position is \$54,529 to \$83,922 per annum depending on qualifications. The position will be available in early 1998.

A position description which delineates the areas of science encompassed by the program and qualifications for the position are available from Ms. Virginia Kreamer in the Office of Human Resource Management, NIDDK. **The deadline for applications is November 3, 1997.** Submit a CV, bibliography, application background survey (optional) and supplemental qualifications statement to:

Mr. Ronald Sleyo, Office of Human Resource Management, NIDDK, NIH, Building 31, Room 9A34, 31 Center Drive MSC 2560, Bethesda, MD 20892-2560; Email: sleyor@extra.nidk.nih.gov

Applicants may also apply to this position via the Internet. The full text vacancy announcement and on-line application for this position is available at <http://ohrm.cc.nih.gov/nidhnm/ANNOUNCEMENT/ON-LINE.html>

U.S. Citizenship is Required. NIH is an Equal Opportunity Employer. Minority and Women Applicants are Encouraged to Apply.

TYPE 2 DIABETES MELLITUS RESEARCH PROGRAM SCIENTIFIC PROGRAM MANAGER NIH RESEARCH ADMINISTRATION

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applicants for the position: **Director for the Type 2 Diabetes Mellitus Research Program**. This position is located in Bethesda, Maryland, and is a permanent full-time position for a Scientific Program Manager (GS-13 or -14) with a salary range of \$54,529 to \$88,396 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

The Director for the Type 2 Diabetes Mellitus Research Program is responsible for planning, developing, managing and evaluating a multimillion dollar program of grants and contracts which supports high quality basic and clinical studies throughout the world. This individual will be responsible for identifying research priorities, organizing scientific meetings and closely interacting with leading researchers in the field. This grant portfolio focuses on research related to type 2 diabetes mellitus including insulin resistance, glucose metabolism, and the mechanism of insulin action. Applicant scientists (Ph.D., M.D., or equivalent) should have a track record of accomplishments in biomedical research related to diabetes and excellent interpersonal and written communication skills.

A position description and qualifications for the position are available from Ms. Virginia Kreamer in the Office of Human Resource Management, NIDDK. **The deadline for applications is November 3, 1997.** Submit a CV, bibliography, application background survey (optional) and supplemental qualifications statement to: **Mr. Ronald Sleyo, Office of Human Resource Management, NIDDK, NIH, Building 31, Room 9A34, 31 Center Drive MSC 2560, Bethesda, MD 20892-2560; Email: sleyor@extra.nidk.nih.gov**. Applicants may also apply to this position via the Internet. The full text vacancy announcement and on-line application for this position is available at:

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U.S. Citizenship is Required. NIH is an Equal Opportunity Employer. Minority and Women Applicants are Encouraged to Apply.

POSITIONS OPEN

POSTDOCTORAL POSITIONS, PROTEIN/DNA INTERACTIONS, AND CANCER GENETICS

Positions available to study (i) thermophilic DNA-recognition proteins using biochemical, genetic, and structural approaches, and their use in (ii) detection of mutations associated with tumor development to explore oncogene and tumor suppressor gene pathways. Applicants should have a Ph.D., preferably with experience in protein-DNA interactions, structural biology, nucleic acid chemistry, DNA and PCR technology, and cancer or human genetics. Competitive salary commensurate with experience. Send curriculum vitae and names of three references to:

Professor Francis Barany
Program of Biochemistry and Structural Biology
Department of Microbiology Box 62
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1300 York Avenue
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RESEARCH ASSOCIATE POSTDOCTORAL FELLOW IN EXPERIMENTAL HEMATOLOGY

A position is available in the research laboratory of the Bone Marrow Transplant Program at the University of Colorado Health Sciences Center. The laboratory has basic and applied projects in experimental hematology with a focus on cellular therapy. Experience in basic cellular and molecular technique is required. A knowledge of gene transduction methodologies, hematopoietic *in vitro* assays, and small animal models is desirable. Starting salary will be commensurate with experience.

Please submit a letter of interest and curriculum vitae to: **Lance Goudzwaard, Administrator, UCHSC Bone Marrow Transplant Program, Box B-190, 4200 East Ninth Avenue, Denver, CO 80262. FAX: 303-372-9003.**

UCHSC is an Equal Opportunity and Affirmative Action Employer; we encourage minorities and women to apply for this position.

RESEARCH FELLOW DIABETES/ENDOCRINOLOGY

City of Hope National Medical Center's newly funded program to discover novel methods of preventing immune-mediated pancreatic islet cell damage or dysfunction, is seeking a Research Fellow with a Ph.D. The studies will involve use of both biochemical and molecular techniques, including gene therapy approaches using ribozymes. Experience working with rodent, porcine, or human islets would be helpful. Send résumé, references, and salary history to: **City of Hope, HR/SCI, 1500 East Duarte Road, Duarte, CA 91010. E-mail: cohapply@smtpink.coh.org; FAX: 626-301-8448. Visit our website: www.cityofhope.org. Equal Opportunity Employer.**

POSTDOCTORAL POSITION BACTERIAL GENE EXPRESSION/ PHYSIOLOGY

Postdoctoral position available to study molecular mechanisms of gene regulation in response to environmental stimuli in oral streptococci. Project involves application of molecular techniques to the study of cis- and trans-acting factors, as well as continuous chemostat culture, cultivation of organisms in biofilms, and use of scanning confocal laser microscopy. Submit curriculum vitae and three references to: **Robert A. Burne, Ph.D., Department of Dental Research, University of Rochester Medical Center, 601 Elmwood Avenue, Box 611, Rochester, NY 14642. E-mail: robert_burne@urmc.rochester.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study molecular mechanisms of kidney stone formation. Investigations focus on oxalate interactions with renal cells at molecular level and understanding signal transduction mechanisms and transcriptional regulation of gene expression in renal epithelial cells. Applicants should have a Ph.D. and a strong background in molecular biology. Experience in cloning techniques, signal transduction, and *in situ* hybridization is desired. Please send curriculum vitae to: **Dr. Hari Koul, Ph.D., Senior Staff Scientist, Department of Urology/Molecular Biology Research, Henry Ford Health Sciences Center, 1-Ford Place, Detroit, MI 48202. E-mail: hkoul@hfhs.org; FAX: 313-876-2380.**

POSITIONS OPEN

POSTDOCTORAL POSITION available to study involvement of the transcriptional activator hypoxia-inducible factor 1 in tumor progression. Send curriculum vitae, research summary, and letters of recommendation directly to: **Gregg L. Semenza, M.D., Ph.D., Center for Medical Genetics, CMSC-1004, Johns Hopkins University School of Medicine, Baltimore, MD 21287-3914.**

POSTDOCTORAL RESEARCH ASSOCIATES IMMUNOBIOLOGY

Postdoctoral Research Associate positions in cellular and molecular immunobiology available at East Carolina University School of Medicine (website: <http://med.ecu.edu/micro/mdept.htm>). Immunobiology faculty offer research opportunities in the following areas: **Dr. Richard A. Franklin**, molecular and biochemical analysis of lymphocyte signaling pathways; **Dr. Kelly P. Kearse**, quality control of immune receptor assembly and regulation of T-cell development and activation; **Dr. Mark D. Mannie**, regulation of T-helper cell function, antigen-specific tolerance, and autoimmunity; **Dr. James A. McCubrey**, roles of oncogenes in apoptosis and abrogation of cytokine dependency in malignant transformation of hematopoietic and breast cells. Youthful department of 65 faculty, graduate students, and staff offers active research training and seminar programs in modern laboratories with excellent research support facilities. Salaries and benefits are nationally competitive.

Preferred candidates will have recent Ph.D. degree and records of research productivity in molecular cell biology, biochemistry, cancer biology, and/or basic immunology. Send application letter citing area(s) of research interest, curriculum vitae, and names of three references with complete addresses and telephone and FAX numbers to: **Postdoctoral Committee, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, NC 27858-4354. Telephone: 919-816-2700; FAX: 919-816-3104; e-mail: hmoore@brody.med.ecu.edu. East Carolina University is an Equal Opportunity/Affirmative Action Institution that accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.**

POSTDOCTORAL FELLOWSHIP. Breast Cancer. The John Wayne Cancer Institute through the Joyce Eisenberg-Keefer Breast Center has an immediate opening for a Postdoctoral position in breast cancer research. Funds for this position are being made available by Fashion Footwear Association of New York—Shoes on Sale®. The project: modulation of chemotherapy multi-drug resistance by manipulation of ceramide and glycolipid metabolism (*J. Biol. Chem.* 271:19530, 1996; *J. Biol. Chem.* 272:1682, 1997). Experience in cell biology, lipid and protein biochemistry, and pharmacology. Competitive salary/benefits package. Please submit résumé with cover letter to: **Dr. Myles C. Cabot, Chief, Breast Cancer Center Research Program, John Wayne Cancer Institute at Saint John's Health Center, 2200 Santa Monica Boulevard, Santa Monica, CA 90404. An Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS GENE THERAPY

Positions are available to develop human and mouse artificial chromosomes (HAEC/MAEC) and appropriate viral/non-viral delivery systems using large mammalian herpes viruses for gene therapy, functional genomics, and episomal transgenics. A background in molecular biology is essential and knowledge of virology and/or immunology highly desirable.

Send application to: **Jean-Michel H. Vos, D.Sc., Lineberger Comprehensive Cancer Center, CB#7295, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7295.**

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FELLOWSHIP: PAIN RESEARCH. Two years. (NIH training grant) Department of Anesthesiology, University of California, San Diego. Qualifications: M.D./Ph.D. (U.S. citizen or green card status). Training grant group consists of eight closely collaborating NIH-supported faculty with primary interests in the pharmacology and molecular biology of pain processing. Information: E-mail: tyaksh@ucsd.edu; website: <http://yakshlab.ucsd.edu>.

POSITIONS OPEN

POSTDOCTORAL POSITION NEUROVASCULAR BIOLOGY

A Postdoctoral position is available to study the molecular and cellular mechanisms of neurovascular development and response to injury. (*J. Biol. Chem.* 272:14442-14446, 1997; *Developmental Brain Research* 100:52-61, 1997; *J. Clin. Invest.* 97:1436-1446, 1996; *Developmental Brain Research* 84:142-149, 1995; *Stroke* 23:1132-1137, 1992).

Recent Ph.D. or M.D.-Ph.D. graduates who have a strong cellular and molecular biology background and/or neurovascular biology training are encouraged to apply. Send curriculum vitae, brief description of research interests and career goals, and names of three references to:

Joseph A. Madri, Ph.D., M.D.
Laura Ment, M.D.
Yale University School of Medicine
Departments of Pathology and Pediatrics
310 Cedar Street
P.O. Box 208023
New Haven, CT 06520-8023
FAX: 203-785-7303
E-mail: joseph.madri@yale.edu

Deadline: November 28, 1997.

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POSTDOCTORAL POSITION HUMAN TOPOISOMERASE I UNIVERSITY OF WASHINGTON

Employ a combination of biochemistry and genetics to explore structure-function relationships in human topoisomerase I. Emphasis will be on understanding the structural basis for catalysis, enzyme specificity, and the mode of action of the anti-cancer drug, camptothecin. Strong consideration will be given to applicants with training in site-directed mutagenesis, standard cloning techniques, and nucleic acid and protein biochemistry. Position available immediately but applications will be considered until the position is filled. Please send curriculum vitae, a brief statement of prior research experience, and three references to: **Dr. James J. Champoux, Department of Microbiology, Box 357242, University of Washington, Seattle, WA 98195. The University of Washington is an Affirmative Action/Equal Opportunity Employer.**

MOLECULAR ONCOLOGY POSTDOCTORAL RESEARCH FELLOW

A position is available immediately at the American Health Foundation, an N.C.I.-funded Cancer Center dedicated to cancer prevention, for a Postdoctoral Research Fellow to join a multidisciplinary interdivisional research group studying the molecular biology of lipid-regulated proteolytic enzyme production by tumor cells. The ideal appointee would have expertise in the general areas of molecular biology and signal transduction. Inquiries may be made to: **Dr. Tony Albino (Telephone: 914-789-7158) or Dr. David Rose (Telephone: 914-789-7145).** Applicants should send curriculum vitae and two letters of recommendation to: **The American Health Foundation, 1 Dana Road, Valhalla, NY 10595. FAX: 914-592-6317; e-mail: talbino@aol.com.**

POSTDOCTORAL POSITION available to identify and characterize the mechanism of action of mammalian genes which regulate the formation/function of subcellular organelles including lysosomes, platelet dense granules, and melanosomes. Modern forms of these genes cause inherited diseases in humans and animal models. Interested candidates with a strong background in cellular and molecular biology should send a curriculum vitae, description of research experience, and contact information for three references to: **Dr. Richard T. Swank, Department of Molecular and Cellular Biology, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263. E-mail: rswank@mcmbio.med.buffalo.edu. Roswell Park is a Female/Disabled/Veterans Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available immediately in the areas of gene regulation, oncogenesis, and tumor progression. Recent Ph.D. with expertise in cellular and molecular biology preferred. Please send curriculum vitae and telephone numbers of three references to: **Dr. T. S. Papas, Dr. D. K. Watson or Dr. C. W. Schweinfest, Center for Molecular and Structural Biology, Hollings Cancer Center, Medical University of South Carolina, Charleston, SC 29425. E-mail: watsondk@musc.edu or schweicw@musc.edu. FAX: 803-792-3940.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS available immediately for a Molecular Biologist/Geneticist to investigate the role of thermogenesis in the development of obesity using transgenic and positional cloning strategies in mice. Please send curriculum vitae and the names of three references to: Dr. Leslie P. Kozak, The Jackson Laboratory, Bar Harbor, ME 04609. E-mail: lpk@jax.org.

FELLOWSHIPS

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Date and location: April 5-8, 1998, The R. David Thomas Center at Duke University, Durham, North Carolina.

Deadline for completed applications: February 3, 1998.

For information, write:

Dr. Margaret A. Pericak-Vance
Box 3445
Duke University Medical Center
Durham, NC 27710

or contact:

Ms. Valerie Roberts
Course Administrator
Telephone: 919-684-2470
FAX: 919-684-2275

or

E-mail: genclass@genemap.mc.duke.edu
Website: <http://www2.mc.duke.edu/depts/medicine/medgen/course/index.html>

STEM CELL AND HEMATOLOGY TRAINING CASE WESTERN RESERVE UNIVERSITY

NIH-funded postdoctoral research program positions for individuals holding M.D., M.D.-Ph.D., and Ph.D. degrees. Research focus in hematopoietic and stromal stem cells, gene therapy, regulation of differentiation, marrow transplant immunology, iron metabolism, and leukemogenesis.

Send curriculum vitae, names of three references, and statement of research interest to: Dr. Stanton Gerson, School of Medicine (BRB), Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4937. Must be U.S. citizen or permanent resident. Minorities and women are encouraged to apply.

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GLOBAL CAREER OPPORTUNITIES

POSTDOCTORAL POSITIONS. Genexpress/EURO-IMAGE. The Genexpress team at CNRS in Villejuif is coordinating the EURO-IMAGE Consortium with five European genome laboratories and two resource centers, with the goal of extending the Integrated Molecular Analysis of human gene transcripts (IMAGE: Auffray et al., *C. R. Acad. Sci. Paris, Sciences de la vie*, 318:263-272, 1995; Houlgatte et al., *Genome Res.* 5:272-304, 1995; Lennon et al., *Genomics* 33:151-152, 1996; Piéti et al., *Genome Res.* 6:492-503, 1996). We are seeking motivated, talented individuals with experience in molecular genetics and data analysis to participate in this program sponsored by the European Union under BIOMED-2. Priority will be given to candidates with advanced skills in at least one of the following areas: construction and analysis of full-length cDNA libraries, high resolution gene mapping in human and model organisms, quantitative hybridization with high density cDNA arrays, bioinformatics for data analysis, and IMAGE database integration using Unix platforms. The positions are available immediately for a period of two years. Send curriculum vitae and two letters of recommendation to: Dr. Charles Auffray, Genexpress, CNRS UPR 420, BP8, 94801, Villejuif cedex, France. FAX: 33-1-49-58-35-09; e-mail: obrasier@infobiogen.fr.

THE CYPRUS INSTITUTE OF NEUROLOGY AND GENETICS MOLECULAR NEPHROLOGY

POSTDOCTORAL POSITION available for work in molecular nephrology, in the search for new genes responsible for inherited kidney diseases, genetic and physical gene mapping and mutation screening. Experience in molecular biology, physical mapping techniques, and DNA linkage analysis shall be considered a plus. The post is for two years, renewable to three. The laboratory consists of five other scientists and it has access to many families with inherited kidney disorders. It is part of a 50-people genetics department and is well equipped. Please send letter of interest with curriculum vitae and two letters of recommendation to: Dr. Constantinos Deltas, The Cyprus Institute of Neurology and Genetics, P.O. Box 3462, 1683 Nicosia, Cyprus. FAX: 357-2-358237; e-mail: deltasco@mdrtc.cing.ac.cy.

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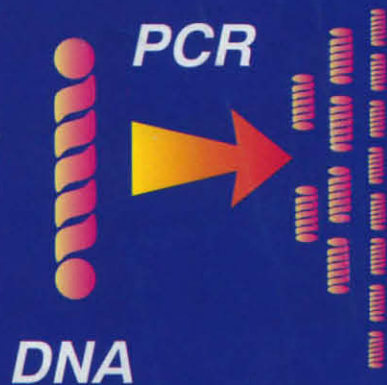
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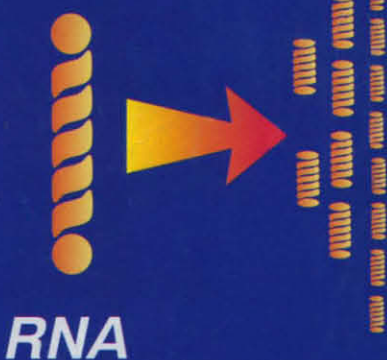
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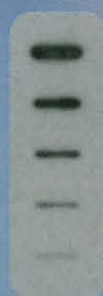
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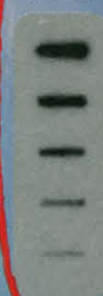
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