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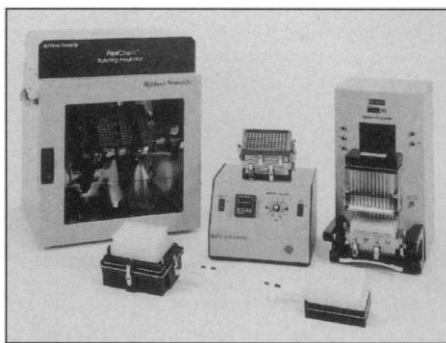
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(continued on page 1559)



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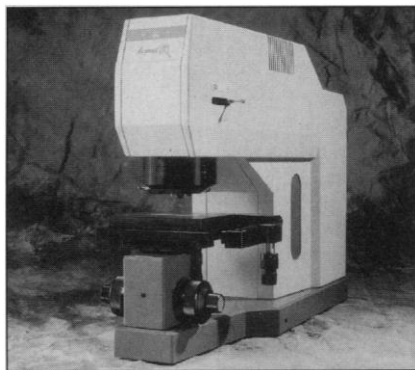
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(continued from page 1557)

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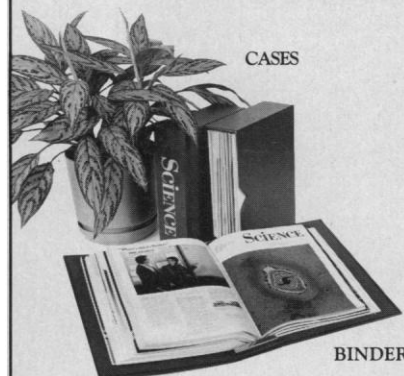
Literature

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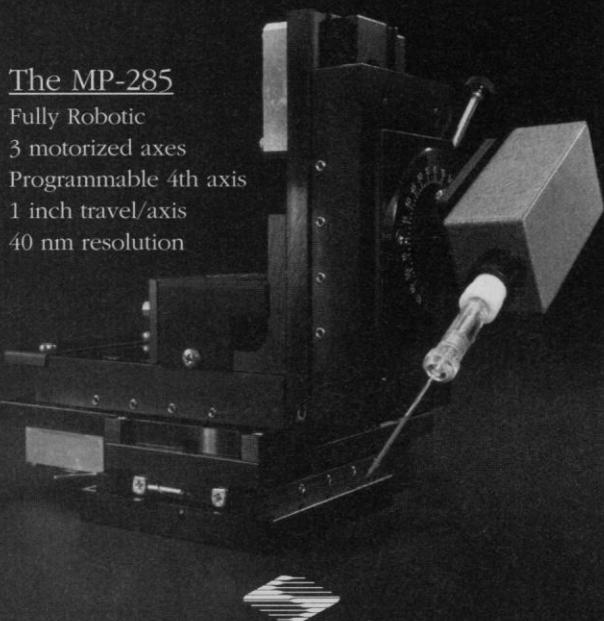
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Upcoming Application Deadlines

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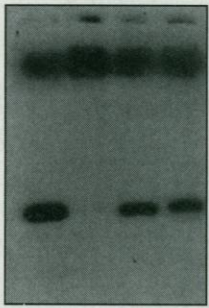
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For an application and guidelines, contact Dr. Gary Machlis, Program Coordinator, Canon National Parks Science Scholars Program, U.S. Department of the Interior, National Park Service, 1849 C Street, NW (MIB 3127), Washington, D.C. 20240 or e-mail gmachlis@uidaho.edu.

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PROFESSOR AND CHAIR DIVISION OF MEDICINAL CHEMISTRY AND NATURAL PRODUCTS School of Pharmacy University of North Carolina at Chapel Hill

The School of Pharmacy of the University of North Carolina at Chapel Hill (UNC-CH) seeks applications and nominations for the position of Professor and Chair of the Division of Medicinal Chemistry and Natural Products. The successful candidate will provide leadership to advance the professional and graduate teaching and research programs of the Division. Candidates should have a Ph.D. in medicinal or pharmaceutical chemistry or related discipline in the biomedical sciences appropriate to the research and teaching activities of the Division. In addition, candidates should have an established and current record of extramural funding, administrative and leadership skills, and a commitment to scholarly achievement.

The Division of Medicinal Chemistry, one of four divisions in the School of Pharmacy, currently includes 10 tenure-track faculty with 30 graduate and postdoctoral students engaged in M.S. and Ph.D. research programs in the broad fields of neuroscience, oncology, parasitology, virology, enzyme mechanisms, molecular modeling, and natural products. The School of Pharmacy is part of the Division of Health Affairs, along with the Schools of Medicine, Public Health, Dentistry, and Nursing. The UNC-CH campus is located near several research universities and Research Triangle Park, home to several major pharmaceutical and biotechnology companies, providing an excellent collaborative environment.

The Search Committee expects to begin interviewing candidates by June 1, 1998, and will continue to receive nominations and applications until the position is filled. Applications should contain a brief statement of research and academic objectives, a curriculum vitae, and names of four references. Applications and nominations should be addressed to:

Raymond G. Booth, Ph.D.
Chair, Search Committee for Medicinal Chemistry
Division Chair
School of Pharmacy, CB #7360
University of North Carolina
Chapel Hill, NC 27599-7360

The University of North Carolina is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

PROFESSOR AND CHAIR FOR THE DEPARTMENT OF COMPARATIVE MEDICINE University of Alabama at Birmingham

The University of Alabama at Birmingham (UAB) invites applications and nominations for the position of Professor (tenured) and Chair of the Department of Comparative Medicine, a Joint Basic Health Science Department of the UAB Schools of Medicine and Dentistry. The department has a very well-funded, interdisciplinary research program which brings together funded projects in genetics, microbiology, transgenic animal models, pathology, and molecular and cellular biology. The department has a 30-year tradition of excellence in graduate training in comparative medicine with emphasis on molecular and cellular pathology. The faculty in the department also provide professional leadership for the Animal Resources Program, the Transgenic Animal/Embryonic Stem Cell Resource, and the Animal Diagnostic and Health Surveillance Laboratory at UAB. The successful applicant must have a doctoral degree, preferably a D.V.M. and/or Ph.D. Specialty certification (e.g., ACLAM, ACVP, or other) is not essential but is desirable. The candidate should have a strong publication record, capacity to maintain a robust extramurally funded research program, and commitment to excellence in graduate education. Applications will be accepted through May 15 or until position is filled and should include a letter indicating research and academic goals and interests, curriculum vitae, and names and addresses of five references. Please submit applications and nominations to:

Juan M. Navia, Ph.D.
Search Committee
University of Alabama at Birmingham
Department of Comparative Medicine
Volker Hall 403
Birmingham, AL 35294-0019
E-mail: naviamj@uab.edu
Website: <http://www.uab.edu>

UAB is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF ALABAMA AT BIRMINGHAM

The Department of Physiological Optics seeks an outstanding VISION SCIENTIST for a faculty position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Candidates must have a doctoral degree, an established research program, and, at the more senior levels, a record of extramurally funded research. Research that applies cellular, molecular, or imaging techniques to the study of sight-threatening diseases is of particular interest. Salary, space, and start-up funds are competitive with national levels.

University of Alabama at Birmingham (UAB) is a Carnegie Research I University that offers an excellent research and teaching environment. Vision research is especially strong at UAB with 45 faculty from eleven departments constituting the Vision Science Research Center (VSRC), one of nine university-wide centers. The successful candidate will have access to all VSRC core resources including electronics, computer, machine shop, histology, confocal microscopy, and shared ocular tissue facilities. VSRC members actively participate in many graduate training programs that include cellular and molecular biology, neuroscience, and vision science. Research facilities and graduate training are supported, in part, by a long-running National Eye Institute (NEI) CORE grant and by NEI training grants.

Applicants should send a curriculum vitae with names of three references and a statement of research interests to: **Dr. Paul D. R. Gamlin, Chair, Faculty Search Committee, Vision Science Research Center, 626 Worrell Building, University of Alabama at Birmingham, Birmingham, AL 35294-4390. Website: <http://spectrum.vsrc.uab.edu>. UAB is an Equal Opportunity Employer.**

UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE DEAN OF STUDENT AFFAIRS

The University of South Dakota School of Medicine, a community-based medical school, is seeking the combined position of Dean of Student Affairs and Campus Dean—Vermillion Campus. The Dean of Student Affairs/Campus Dean reports directly to the Vice President/Dean and serves as a member of the Administrative Council of the School of Medicine. Responsibilities include direction of enrollment management for medical students to include supervision of and involvement in the admissions process of the School of Medicine; direction of medical student financial aid; administration of academic and career counseling for medical students; and liaison with University and national student affairs groups. Campus Dean responsibilities include serving as a liaison with the University's Dean's Council and coordination of scheduling and renovation of Vermillion Facilities of the School of Medicine.

Qualifications include: M.D. or Ph.D. degree; significant experience in an academic environment, preferably in a medical school; demonstrated ability to work cooperatively with various constituencies, especially medical students; demonstrated leadership ability, strong oral and written communication skills, and familiarity with information technology.

Salary is commensurate with background and experience.

Qualified candidates are encouraged to submit a curriculum vitae and names and addresses of three references to: **Chair, Search Committee Dean of Student Affairs, 1400 West 22nd Street, Sioux Falls, SD 57105.**

Applications will be reviewed starting March 30, 1998, and continue until a suitable candidate is hired. *Affirmative Action/Equal Employment Opportunity.*

ASSISTANT PROFESSOR OF ENTOMOLOGY UNIVERSITY OF FLORIDA

Ph.D. in entomology with appropriate training and experience in applied insect ecology. Responsibilities: biological control of weeds by arthropods, 70 percent research, 30 percent extension. Details from website: <http://gnv.ifas.ufl.edu/~entweb/publicat.htm> or by sending FAX to: **Dr. J. H. Frank, Search and Screen Committee, Entomology and Nematology Department, University of Florida, Gainesville, FL 32611-0620. FAX: 352-392-0190. Closing date 22 April 1998.**

The University of Florida is an Affirmative Action/Equal Access/Equal Employment Opportunity Employer.

focus on careers:

GENETICS

Michael Woods

A

sk people making a living in the world of genetics about career prospects today, and you'll hear much the same response: "Genetics is a hot field," said Vicki Rosen, of the Genetics Institute, Inc. in Cambridge, Massachusetts. "This is a very exciting time to do research in genetics. Important discoveries are being made about genes, and we're getting deep insights into gene expression. These are translating into products."

Genetics is a field older than Mendel and other early attempts to explain inherited variation. And it's as new and vibrant as the Human Genome Project (HGP) and sizzling hot career fields like genomics and functional genomics that the HGP spawned. Genetics comes in all flavors, with all of the cross-disciplinary involvement that led Rosen into the field in the early 1980s.

Rosen didn't plan her career exactly that way. Academic training, research interests, and industry needs came together at the right time, she said. Rosen's Ph.D. in cell biology and physiology from the University of Connecticut led in 1984 to the Genetics Institute, Inc. (GI) and work on bone morphogenic proteins (BMPs) and genes that code for BMPs. These proteins induce bone formation, and have clinical potential. The group's successes included isolation of BMPs and BMP genes. Rosen moved progressively up the career ladder from staff scientist to principal scientist, senior scientist, and group director.

Today she directs a 15-member GI group that works on the genetics and identifies potential clinical applications of BMPs. GI is a wholly owned subsidiary of American Home Products Corporation, which uses recombinant DNA and other technologies. GI's newest product, rhIL-11, is a platelet growth factor, cleared for marketing late in 1997, that stimulates platelet production in cancer chemotherapy patients.

Genetics can accommodate people from a variety of academic backgrounds. Rosen sees places in research for Ph.D.'s in genetics and related fields like cell biology, developmental biology, and molecular biology. "With demand just exploding in the whole field of bioinformatics and genomics, computer skills or cross degrees in computer science are especially attractive to employers," Rosen observed. Geneticists and other biologists who compute will be hotter property in the future, Rosen noted.

One interest fostered by GI is a focus on secreted proteins, which are prime drug targets. Each of the 50,000–100,000 genes in the human genome codes for a protein. About 90 percent of the proteins are an integral part of cells. The remaining 10 percent are secreted proteins such as interferons, insulin, growth hormone, and tissue plasminogen activator. GI is collaborating with Chiron Corporation, Genentech, Inc., Kirin Brewery Co., Ltd, Ontogeny, Inc., Bayer Corporation, and Chugai Pharmaceutical Co., Ltd. in a genomics effort focused solely on the sub-

set of genes encoding these proteins. GI scientists are building a library of expressed secreted proteins, their corresponding cDNAs, and a companion relational database. Commercial and academic collaborators can use the library and database for biologic evaluation and identification of novel drug targets.

Rosen recruits for her own department and administers GI's post-doctoral program. "Because genetics is such a broad field, it's important for people considering a career to find a niche that really interests and excites them," Rosen said. "It might be gene regulation or a specific family of genes. Then really pursue that interest." Among the subspecialties in genetics are molecular genetics, biochemical and developmental genetics, and cytogenetics. Personality can help in finding a niche. "A person who loves bench top research may not be comfortable as a database person who sits at a computer. When you're passionate about the work, a career often falls into place quite naturally." Discoveries that impact human health often follow, and bring an intense personal sense of accomplishment. Rosen's group, for instance, did pioneering work on the gene for human bone morphogenic protein-two (hBMP-2). It led to a recombinant protein product, rhBMP-2, now in clinical trials for orthopedic trauma, maxillofacial repair, and other indications. Rosen is excited about job candidates who combine enthusiasm with excellent scientific qualifications and interpersonal skills, like the ability to work effectively on a multidisciplinary team.

Rosen's perspective on genetics is the one of a young Ph.D. who signed on with a new start-up and advanced as the company grew and matured. Would today's young Ph.D. fare better at a start-up, or an established company? Like others who have experienced both sides of the industry, Rosen has no simple answer. It's often a matter of balancing risk, opportunity, and a host of other factors.

Most company representatives agree that the field of genetics is far from overpopulated. Good career opportunities exist today, and the number of openings should continue to grow steadily in the future. With the HGP's full impact still in the future, there's every reason to believe that young scientists who choose genetics can look forward to an exciting career. ■

March Career Workshops:

Join us for an online discussion group on careers in genetics at the Science Professional Network Web site (www.sciencemag.org). Click on Science Professional Network, and then click on Career Workshops. Our guest host will be Vicki Rosen of the Genetics Institute, Inc.

Michael Woods writes frequently on the biotechnology and pharmaceutical industries.

AS BIG AS **LIFE** ITSELF

GENETICS INSTITUTE'S MISSION IS TO DO WHAT HAS NEVER BEEN DONE BEFORE ... TO DISCOVER NEW PROTEIN-BASED THERAPEUTICS FOR THE TREATMENT OF A WIDE VARIETY OF HUMAN CONDITIONS. AS A RESULT, THE CHALLENGES WE FACE ARE EXTRAORDINARY. YET BECAUSE OUR WORK GOES DIRECTLY TOWARD IMPROVING HEALTH AND LIFE FOR PEOPLE AROUND THE WORLD, THE REWARDS OF OUR WORK ARE JUST AS IMPRESSIVE ... AS BIG AS LIFE ITSELF.



TO MEET THESE CHALLENGES AND REMAIN AT THE CUTTING EDGE OF BIOMEDICAL SCIENCE, WE RELY ON OUR **POSTDOCTORAL FELLOWSHIP PROGRAM** TO SEEK OUT PEOPLE WHO QUESTION ACCEPTED DOGMA IN R&D AND CAN BRING NEW IDEAS TO OUR ORGANIZATION. POSTDOCS PROVIDE A MOBILE, ENERGETIC POOL OF PROFESSIONALS WITH NOVEL IDEAS, NEW TECHNOLOGY, AND FRESH ENTHUSIASM. IN RETURN, THEY RECEIVE THE OPPORTUNITY TO PUBLISH CUTTING-EDGE SCIENCE, PRACTICAL TRAINING AND CAREER DEVELOPMENT TO SUPPLEMENT THEIR GRADUATE STUDIES, PLUS THE OPPORTUNITY TO:

- Work on today's most advanced therapeutics-nine products in human clinical evaluation or commercialization for such areas as coagulation therapy, immunology, oncology, and tissue growth and repair
- Discover the breakthrough products of tomorrow in protein-based therapeutics
- Use some of the most advanced tools available to support scientific research
- Collaborate with top professionals in a wide variety of disciplines
- Experience an environment that rewards individual initiative and team interaction

Postdoctoral Fellowship Program ANDOVER AND CAMBRIDGE, MA

WE CURRENTLY HAVE 14 NEWLY CREATED POSITIONS WITHIN THE FOLLOWING DEPARTMENTS:

- **SMALL MOLECULE DRUG DISCOVERY**, dealing with, but not limited to, biochemistry involving the study of enzymes involved in the synthesis of selected ligands
- **PROTEIN DISCOVERY**, dealing with, but not limited to, T-Cell Biology
- **PRE-CLINICAL**, dealing with, but not limited to, regulation of IL-12 receptor on human antigen presenting cells and characterizing a non-human primate ectopic (ultra muscular) bone formation model
- **CLINICAL DEVELOPMENT**

To be considered for openings in our Postdoctorate Fellowship Program, please mail or fax your resume to:

Genetics Institute, Inc., Resume Processing Center,
Job Code: SC-HG-36, P.O. Box 385, Burlington, MA 01803.
Fax: (617)876-8847

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

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

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

Job descriptions are updated regularly on our web site:

www.genetics.com

GENETICS  INSTITUTE®

Harnessing the Body's Power to Heal™

Positions in Human Genetics

The **Wadsworth Center** is engaged in an initiative to develop a program of excellence in Human Genetics. Geneticists at senior and intermediate levels are being sought, especially those with experience in human molecular genetics, genetic epidemiology, population genetics, clinical genetics and biometrics.

Successful candidates will join a stimulating intellectual community of scientists who work at the intersection of science, medicine and public health. They will enter an organization that values its long history of excellence in research and service, from the discovery of introns in prokaryotes through the development of recombinant vaccinia virus as a vaccine vector, to a major program of laboratory certification.

Those actively involved in research, engaged by the ethical, legal and social issues of genetic testing, and excited at the prospect of defining the impact of genetics on diverse populations should consider these resources of the country's most comprehensive public health laboratory:

- an active research program in genetics of model organisms, ranging from yeast through fruit flies to mice
- core facilities that include automated DNA and peptide sequencing and synthesis, transgenics, cell banks, NMR, X-ray crystallography and a nationally supported microscopy resource
- access to the unbiased test population of specimens from one of the country's largest newborn screening programs
- opportunities to collaborate with clinicians from Albany Medical College and with genetic service providers funded by the New York State Genetic Services Program
- faculty appointment at the School of Public Health, State University of New York at Albany

Ph.D. and M.D. geneticists with at least 5 years of post-doctoral experience are invited to apply. The Wadsworth Center is an affirmative action / equal opportunity employer.

To be considered, please forward a resume to:

Dr. Anne Messer, Chair, Genetics Search Committee
Wadsworth Center, New York State Department of Health
PO Box 22002, Albany, NY 12201-2002



Wadsworth Center

New York State Department of Health

web site: www.wadsworth.org

University of Minnesota Cancer Center Endowed Chair in Cancer Genetics

The University of Minnesota Cancer Center has established a senior endowed faculty position in cancer genetics. The individual will be named to the Schering Chair in Cancer Genetics, and will have an opportunity to lead an expanding research program in the molecular biology or genetics of solid tumors. The Cancer Center and the Academic Health Center will devote competitive resources to the candidate and future faculty recruitments to continue to build the Cancer Genetics Program. Modern laboratory space will be provided in the new Cancer Center Research Building, with access to state-of-the-art core facilities in statistics, embryonic stem cell technology, transgenics, tissue procurement, flow cytometry, analytical chemistry & biomarkers, and cell therapy. The candidate must have a Ph.D. or M.D., a distinguished record of high-quality research in the area of the molecular biology and genetics of solid tumors. Strong emphasis will be placed upon the candidate's ability to lead an externally funded research program of national prominence, and the potential for interaction with existing Cancer Center Programs in Genetics, Prevention & Etiology, Immunology, Cell Biology, or Transplant Biology. The appointment will be tenured in the appropriate University Department at the Associate or Full Professor level depending on qualifications.

Please send a curriculum vitae, a brief research statement, and names of three references to: **Chair, Schering Search Committee, University of Minnesota Cancer Center, Box 806, 420 Delaware St. S.E., Minneapolis, MN 55455-0392, USA.**

Applications accepted until May 30, 1998, or until position is filled.

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

PENNSTATE



College of Medicine

POSTDOCTORAL FELLOW REGULATION OF GENE EXPRESSION

A Postdoctoral Fellow position is available at the Weis Center for Research in the Laboratory of Dr. Lawrence I. Rothblum. The Postdoctoral Fellow will study the mechanisms of transcription by RNA polymerase I as well as the signaling pathways involved in the regulation of ribosomal DNA transcription (see Mol. Cell Biol 16:557-563, 1996; Nature 374:177-180, 1995). The successful candidate will have experience in one or more of the following areas: in-vitro transcription, enzyme/protein purification, recombinant DNA/protein expression, cell culture, and protein-protein or protein-nucleic acid interactions. The Weis Center for Research in Danville, PA is in a semi-rural area with convenient access to the major metropolitan areas of New York and Baltimore. The Center provides modern, fully equipped research facilities for 90 faculty and research personnel. Interested individuals should send their curriculum vitae and the names of three references to: **Lawrence Rothblum, Ph.D., c/o Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program, Sigfried and Janet Weis Center for Research, 100 North Academy Avenue, Box SCI, Danville, PA 17222-2601. AA/EOE**



International Aspirin® Award 1998

Young Researchers' Aspirin® Award

The Young Researchers' Aspirin® Award's objective is to encourage scientific research into the mechanism of action and clinical use of acetylsalicylic acid, the active ingredient of Aspirin®. Scientists who have contributed to the knowledge of Aspirin® through original independent scientific research in the field of theoretical (experimental) and/or clinical medicine are invited to compete for the Award. The results of their work should have a direct effect on the knowledge or use of Aspirin® and be based on a peer-reviewed publication, accepted and/or published. The publication should not be older than two years. Only 1 paper can be submitted per year but it might be resubmitted within the time limit. The age limit of the Young Researchers' Aspirin® Award in the year of candidature is 40.

The Young Researchers' Aspirin® Award's value is DM 20,000.

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

Submit your manuscript (English language, 2 copies) with your Curriculum Vitae, a list of the 5 most important recent publications (= last 5 years) and a statement of the group leader of the department where the scientific work submitted for the Aspirin® Award competition was generated which describes the background and rationale of the research, confirms the independence of the scientific work and discloses the source of financial funding.

Applications should be mailed to the following address:

International Aspirin® Award
c/o Bayer AG
BG Consumer Care/EU-PDC/Medicine
Building C 151
D-51368 Leverkusen/Germany

Deadline for submission is April 30th, 1998 (postal mark!)



Leaders in the Search

*Synaptic
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the exploration of new
biological targets and
therapeutic agents for
the treatment of central
and peripheral nervous
system disorders. Our
approach has yielded
important advances at
the forefront of drug
discovery.*



Research Scientists

Currently, we are seeking the following professionals to share in our efforts and successes:

Genome Analysts

Working with a team of computer scientists and molecular biologists you will analyze automated search output and perform special queries/sequence analyses. Two openings exist for candidates with extensive experience on common UNIX based database and GCG sequence analysis packages; one at the MS level, and one at the Ph.D. level. The Ph.D. position further requires a background in G-Protein Coupled Receptor sequence analysis. (Dept. 249)

Sequencing Manager

As part of our expanding Bio-Informatics division, you will supervise and manage a high throughput sequencing group. Requires substantial experience in automated sequencing and ABI 3777 XL equipment. Ph.D. and prior supervisory experience strongly preferred. (Dept 250)

Molecular Biology Scientist

Direct your expertise in cDNA cloning and library construction to the discovery of new drug development targets. A Ph.D., post-doctoral experience in cDNA cloning, subtractive hybridization/normalization or expression cloning in mammalian cells and supervisory experience are all essential. (Dept 251)

Post-Doctoral Scientist

Join a group engaged in the identification and cloning of novel G-protein coupled receptors. Requires a Ph.D., strong background in Molecular Biology and hands-on experience in homology cloning techniques. Experience with computer-assisted sequence analysis strongly desired. (Dept. 252)

Electrophysiologist

Unique opportunity for candidate with post doctoral experience and a solid background in electrophysiology, specifically in whole-cell voltage clamp of mammalian cell lines and primary neurons. We strongly prefer familiarity with: ion channel modulation by GPCRs and associated techniques, Molecular Biological techniques such as subcloning and mutagenesis, the isolation of primary neurons and blind patch recording in slices. (Dept. 253)

Candidates for the above positions must possess a degree in the Biological Sciences and 2-3 years of experience in the respective discipline. Unfortunately, we can only consider those candidates who have direct experience as specified.

We offer a competitive compensation and benefits package, including a 401 (K) and stock option plan. For consideration, please send your resume in confidence to: **Synaptic Pharmaceutical Corporation, Dept#___, 215 College Road, Paramus, NJ 07652.** An EOE M/F/D/V

FIRST ANNUAL MEETING ON THE EXPERIMENTAL THERAPEUTICS OF HUMAN CANCER

**JUNE 11-13, 1998
Hood College, Frederick, MD**

Organizing Committee: Richard Klausner, Edison Liu, Doug Lowy, Edward Sausville, Carmen Allegra, George Vande Woude, Robert Wittes, Chris Takimoto

This conference is designed to foster interaction and communication between basic and clinical scientists interested in new and novel approaches to the treatment of human cancer.

Plenary Session: "New Therapies For Human Cancer: Where Do We Go From Here?"
Richard Klausner, Edison Liu, John Mendelsohn, George Vande Woude

Symposia Topics:	Drug Discovery	Stephen Friend
	Reagent-Based Immunologic Therapies	Ira Pastan
	New Molecular Targets: Signaling/Kinases	Sara Courtneidge
	New Molecular Targets: RAS, p53, cell cycle, apoptosis	Allan Balmain
	Drug Development and Regulation/Phase I Clinical Trials	Michael Friedman
	DNA/RNA-Based Therapies, Gene Therapy	Frank McCormick
	New Molecular Targets: Cell Adhesion Molecules	Erkki Ruoslahti

Contact Information:

Margaret Fanning, FACS, P.O. Box 249, 12120 Main Street, Libertytown, MD 21762, Phone: 301-898-9266, Fax: 301-898-9173, E-mail: margaret@facci.org.

Please check our **website at WWW.FACSI.ORG** for more details and registration information.

Vector Development



The LSU Medical Center Gene Therapy Program is recruiting for two basic science faculty positions at the Assistant Professor level in the Departments of Microbiology and Medicine. These positions may be on tenure track. Areas of particular interest are in RNA virology including lentivirus-based vector systems and DNA virology including adenovirus and AAV-based vector systems. Please send curriculum vitae to **Dr. Jay K. Kolls, Director, LSUMC Gene Therapy Program, Room 3205, MEB, 1901 Perdido St., New Orleans, LA 70112. E-mail: jkolls@lsu.edu.**

LSUMC is an EEO/AA Employer.

AS BIG AS LIFE ITSELF



GENETICS INSTITUTE'S MISSION IS TO DO WHAT HAS NEVER BEEN DONE BEFORE ... TO DISCOVER NEW PROTEIN-BASED THERAPEUTICS FOR THE TREATMENT OF A WIDE VARIETY OF HUMAN CONDITIONS. AS A RESULT, THE CHALLENGES WE FACE ARE EXTRAORDINARY. YET BECAUSE OUR WORK GOES DIRECTLY TOWARD IMPROVING HEALTH AND LIFE FOR PEOPLE AROUND THE WORLD, THE REWARDS OF OUR WORK ARE JUST AS IMPRESSIVE ... AS BIG AS LIFE ITSELF.

WITH TWO MILESTONE PRODUCTS - BENEFIX™ AND NEUMEGA® RECEIVING FDA APPROVAL IN 1997 - GENETICS INSTITUTE IS WELL POSITIONED TO CONTINUE ITS SUCCESS AND GROWTH INTO THE NEXT MILLENNIUM. WE ARE COMMITTED TO PROVIDING TO OUR DEDICATED PROFESSIONALS, WHO CONTRIBUTE SO MUCH TO OUR SUCCESS, THE RIGHT TOOLS AND TECHNOLOGY NEEDED TO MEET THE CHALLENGES THAT MAKE OUR ENVIRONMENT UNIQUE. YOU'LL FIND IT'S A GREAT ORGANIZATION FOR BUILDING A REWARDING CAREER.

PH.D. STAFF SCIENTIST (S398-MN-LL)

Seeking a motivated and enthusiastic Ph.D. Scientist to join our Small Molecule Drug Discovery group to discover TNF inhibitors and to unravel TNF signaling mechanism. Extensive experience in protein characterization and purification is required. Familiarity in molecular/cellular biology and knowledge in signal transduction pathways are preferred. Applicants should have a Ph.D. with postdoctoral experience, and good record of publication. Please send curriculum vitae and the names of three references to us at the address below.

PH.D. STAFF SCIENTIST (S398-KS-DP)

Seeking a Ph.D. for novel gene evaluation. Monitor gene expression to identify activities of novel genes in animal models using state of the art technology including Affymatrix, Northern analysis, RT-PCR, and RNAase protection. Requires a Ph.D. in Molecular Biology, Cell Biology or related field, and 2+ years of postdoctoral experience in gene expression, RNA isolation and analysis, animal models, and strong computer database skills.

PH.D. STAFF SCIENTIST (S398-KS-JW)

Seeking a Ph.D. for bone biology and applications. Identify and characterize new delivery systems and matrices for BMPs, and research systems appropriate for bone repair using rhBMP-2, including injectable and surgically implanted formats. Additional responsibilities will include leading studies of interactions between the materials and rhBMP-2 and efforts to do preliminary *in vivo* testing. Requires a Ph.D. in Pharmaceutical Sciences or Chemical Engineering, and at least 4 years of experience in drug delivery and/or biomaterials research. Experience with polypeptide growth factors, bone biology is preferred.

PH.D. STAFF SCIENTIST (S398-KS-MK)

Seeking a Ph.D. IL-12 Receptor Biology. This is an exciting opportunity to work on IL-12, a high visibility clinical compound. Develop and apply molecular biology methods to monitor IL-12 receptor expression in tissue cells for *ex vivo* studies. Requires a Ph.D. with 5 years of experience in immunology, molecular biology, cell biology, and biochemistry. Experience working with cytokines is a plus.

To be considered for current or future job openings, please mail or fax your resume, indicating job code, to: Genetics Institute, Inc., Resume Processing Center, Job Code: _____, P.O. Box 385, Burlington, MA 01803. Fax: (978) 623-2607

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

Genetics Institute is a wholly owned subsidiary of American Home Products Corporation and offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), pension plan, relocation assistance, tuition assistance, dependent care subsidy, and an on-site exercise facility. Genetics Institute is proud to be an equal opportunity, affirmative action employer, dedicated to building strength through diversity.

For additional opportunities, visit our web site at:

www.genetics.com

GENETICS INSTITUTE®



The Science of Agricultural Genetics

RESEARCH MANAGER (Job #CP-813) Plant Molecular Genetics - Crop Protection

The Disease Resistance Group at Pioneer Hi-Bred is looking for a highly motivated plant molecular biologist to join a group of scientists who are studying disease resistance pathways in maize and designing novel resistance genes to intervene in these pathways. The person who assumes this position will be expected to develop an aggressive program for identifying candidate genes for disease resistance, optimizing them for deployment against specific pathogens of maize, and participate in the evaluation and integration of these genes into a product development package. The ideal candidate will have a strong background in plant molecular biology, genetics, and biochemistry, with an emphasis on signal transduction pathways. A background in Arabidopsis molecular biology and research experience in the molecular genetics of disease resistance will be an asset. In addition, familiarity with principles of protein-protein interactions and ability to develop and handle large scale screening programs will be required. Ability to work effectively in a team environment is essential. Pioneer Hi-Bred offers state-of-the-art genomics, expression analysis, and protein expression facilities to support gene discovery research.

RESEARCH MANAGER (Job #CP-814) Fungal Molecular Biology - Crop Protection

The Disease Resistance Group at Pioneer Hi-Bred is seeking a highly motivated fungal molecular biologist to join a group of scientists developing novel strategies for defense against fungal pathogens of maize. The ideal candidate will have a strong background in fungal molecular biology and genetics with an emphasis on genes involved in metabolism or signal transduction. The Research Manager will be expected to assume responsibilities for ongoing research in the area of grain molds and mycotoxins in maize, as well as develop an innovative program and establish key collaborations to identify fungal targets for novel resistance genes to be deployed in maize. Other required skills include extensive familiarity with genomics, library screening and analysis, and recombinant protein expression. Ability to function effectively in a team environment is essential. Pioneer Hi-Bred offers state-of-the-art genomics, expression analysis, and analytical facilities to support gene discovery research.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by March 21, 1998 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #CP-813 or CP-814), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



PIONEER HI-BRED
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A new global leader in pharmaceuticals is born.

Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering and developing innovative prescription drugs that treat a wide variety of diseases and conditions - helping millions of people live longer, healthier lives.

Histologist

Working in our transplantation department, the successful candidate will be responsible for analysis of allografting equipment. Specifically, tissue collection, sample processing, embedding and sectioning (paraffin and frozen tissue), performing and evaluating histology staining and immunohistochemical staining. Responsibility will also include image analysis and documentation.

To qualify, you should have a BS/MS with at least three years of the relevant experience in histology and immunohistochemistry. Experience in cell culture, ELISAs and In Situ hybridization would be preferred. Experience in Immunology and Computer skills (Microsoft Word, Excel, Jandel Scientific etc.) would be an advantage. The candidate must be able to independently organize and conduct research in his or her specific program.

Microsurgeon

Working in our transplantation department, the successful candidate will be responsible for the development, implementation and coordination of transplantation animal models and the testing of compounds in these models. Responsibility will also include data analysis and documentation, as well as training and supervision of new personnel in microsurgical techniques.

To qualify, the successful candidate will have a BS/MS with at least five years of the relevant experience in microsurgery and animal experimentation. Specifically, in addition to microsurgery, the candidate should have experience in vessel cannulations and drug administrations. Experience specifically in rodent surgery and immunohistochemistry would be an advantage. The candidate must be able to independently organize and conduct research in his or her specific program and effectively communicate their own results.

You will enjoy an attractive salary, comprehensive benefits and high visibility in a dynamic organization. You will find them all, and much more, at Novartis. For consideration, please send your resume, indicating position of interest and salary history/requirements, to: Staffing Center, Dept. IB5419, Novartis Pharmaceuticals Corporation, Building G227, 556 Morris Avenue, Summit, NJ 07901-1398. No agencies or phone calls, please. We are an equal opportunity employer m/f/d/v. We appreciate your interest in our company. Unfortunately, we can only respond to qualified candidates.



...is what you will find at Otsuka America Pharmaceutical, Inc., a progressive, global organization. Otsuka is currently expanding its human science research capabilities in the United States and is seeking qualified individuals to help build a world class organization.

Senior Scientist, Asthma/COPD

We are seeking a senior scientist with a Ph.D. in pharmacology, physiology or a related discipline and 3 to 5 years of experience in chronic lung disease models. We are particularly interested in candidates whose emphasis was in both *ex vivo* and *in vivo* evaluation of bronchoconstriction and inflammation in asthma. You will be responsible for establishing a research lab involving asthma and adding depth to a strong, diversified pulmonary research team utilizing both *ex vivo* and *in vivo* models.

Senior Research Associate, Asthma/COPD

We are also seeking a MS level scientist with 3 to 5 years of experience in isolated smooth muscle pharmacology, using airway and/or vascular smooth muscle preparations in organ baths. Working knowledge of computer-controlled data acquisition and analysis systems is desired. Excellent microscopic surgical skills and experience with microvessels or airways would also be an advantage.

Senior Scientist, Liver Research

We are seeking a Ph.D. with 3 to 5 years of experience relevant to the study of liver disease. Relevant industrial experience is preferred, but not required. Candidates should have documented research experience related to the physiology, biochemistry, and viral hepatitis, alcoholic liver disease, and cirrhosis. Candidates should have experience with appropriate *in vivo* models for studying liver pathology, as well as skilled in relevant biochemical, histological and molecular biology techniques. You will be responsible for establishing a liver laboratory, while also adding scientific depth to an established gastrointestinal research team.

We offer a competitive compensation and benefits package. Please mail or fax your resume with salary history to: Staffing Department, Otsuka America Pharmaceutical, Inc., 2440 Research Boulevard, Rockville, MD 20850. Fax: (301) 212-8647. An equal opportunity employer.

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SENIOR SCIENTIST, MOLECULAR BIOLOGY

Viral Vector Group

Your work will involve the construction and testing of novel viral delivery systems to deliver therapeutic genes for the treatment of cancer and hyperproliferative diseases. Emphasis will be on improving transcriptional control of transgene expression and decreasing immunogenicity of vectors. The ideal candidate will have a Ph.D. and a minimum of 2 years postdoctoral experience. Thorough knowledge of and extensive experience with standard molecular techniques and transcriptional regulatory mechanisms are required. Previous experience with viral vector construction is preferred.

POSTDOCTORAL FELLOW, MOLECULAR BIOLOGY

Non-viral Vector Group

The focus of your work will be on plasmid vector design and optimization, including promoter regulation and novel regulatory elements. The ideal candidate for this position will have a Ph.D. in Biochemistry or Molecular Biology and extensive experience in eukaryotic expression vectors, plasmid construction and regulation of gene expression. Experience with p53 or other tumor suppressor genes is also desirable.

Canji provides a highly competitive compensation package, excellent benefits, and an environment that promotes individual excellence and advancement. For consideration, mail/fax your resume and salary requirements to: Human Resources, Canji, Inc., 3030 Science Park Road, San Diego, CA 92121. Fax (760)741-3737.



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Pharmaceutical Research Institute

Applied Genomics

Bristol-Myers Squibb is committed to using genomic technologies to drive both the discovery and the development of the next generation of drugs. This commitment is demonstrated by the recent formation of an industrial/academic consortium to develop the next generation of functional genomic technologies. In addition, Bristol-Myers Squibb is in the process of establishing an internal division of Applied Genomics at our Pharmaceutical Research Institute in Princeton, New Jersey.

Molecular Genetics and Functional Genomics

Model Organism Genomics

Ph.D. with 4 years postdoctoral experience studying the function of genes in yeast, *Drosophila* or nematodes. Code: PRSM22LGA

Statistical Genetics

Ph.D. in human or quantitative genetics and postdoctoral experience with statistical genetic software in the UNIX environment. Code: PRSM22LGB

Director of Functional Genomics

Ph.D. or M.D. to start a new department in functional genomics, to functionally characterize novel genes and to identify screening opportunities in multiple therapeutic areas. Code: PRSM22ESB

Director of Genetics

Ph.D. or M.D. to lead the genetics group in both human and experimental genetics. Code: PRSM22ESA

Pharmacogenomics

M.D. or Ph.D. in relevant discipline. Previous experience required in the analysis of genetic factors affecting drug metabolism, including identification of drug metabolism enzyme (DME) genes, identification of gene mutations/polymorphisms, and analysis of gene structure/function. Code: PRSM22LGC

Genotyping

M.D. or Ph.D. in relevant discipline and postdoctoral training. Experience with high-throughput technologies would be an advantage. Code: PRSM22LGD

Genomic Technologies

Microarray Expression Technology

Ph.D. in relevant discipline and postdoctoral experience to apply microarray expression technology to the investigation of biochemical pathways and the mode of action of drug candidates. Code: PRSM22MNA

Sequencing Manager

Ph.D. with 4 years of postdoctoral experience to establish and manage a laboratory for high-throughput sequencing. Experience in genomic sequencing and data analysis is required and supervisory experience would be an advantage. Code: PRSM22WCA

Robotics Scientist

Ph.D. with experience with robotic laboratory work stations. Experience applying robotics to biochemical or molecular biology procedures would be an advantage as would expertise interfacing instrumentation to computers. Code: PRSM22MNB

Bristol-Myers Squibb uses resume scanning technology. Please submit on plain white bond paper, using standard type and fonts (no italics, graphics, or staples please), with Code# __ to:

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B.S./M.S. level scientists are also encouraged to apply for positions in each of these areas.

POSTDOCTORAL RESEARCHER/RESEARCH ASSOCIATE 3 OR 4 (2 positions anticipated) Veterinary Pathology



ALL POSITIONS: Responsibilities include preparation of presentations and manuscripts, conducting literature reviews, assisting in preparation of grants. Additional information specific to each position is listed below. Rank at appointment will depend on qualifications. **REQUIRED QUALIFICATIONS—**Postdoctoral Researchers: Ph.D. and experience; Research Associate 3: B.S. and 5 years experience; Research Associate 4: M.S. and two years experience.

Log #987: DEGREE DISCIPLINE—Toxicology or related science. **EXPERIENCE—**animal feeding studies. Postdoc also requires clinical laboratory techniques and biological assays experience. R.A. 3 requires clinical laboratory techniques and biological assays experience. R.A. 4 requires clinical laboratory techniques and biological assays experience, computer/data management, and statistics proficiency. **RESPONSIBILITIES—**conduct feeding studies of target compounds to rats; collect tissues followed by histopathology, immunostains, and related pathology workup; conduct biological assays including PAGE, blots, enzyme activities. **Log #988: DEGREE DISCIPLINE—**Toxicology or related science. **EXPERIENCE—**metabolism studies and methods of biological and instrumental analysis. Postdoc also requires animal handling experience. **ADDITIONAL QUALIFICATION DESIRED—**computer/data management and statistics proficiency. **RESPONSIBILITIES—**conduct research related to target compound (labeled and cold) administration, and evaluation in use of isolated perfused lung, which includes care and handling of rodents, surgical removal of target tissue(s), validation and operation of perfused lung system; conduct biological and instrumental analysis for compound metabolites, metabolic function and activity.

Salary will be commensurate with qualifications and experience. Application deadline is April 30, 1998, or until candidates are selected. Submit letter of application specifying log# and résumé to:

Dr. Steven Barker, Veterinary Physiology, Pharmacology, and Toxicology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803, phone (504) 388-3602, e-mail: barker@vt8200.vetmed.lsu.edu.

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POSTDOCTORAL RESEARCH POSITIONS in INTERNATIONAL HIV RESEARCH PROGRAM

The Henry M. Jackson Foundation, in cooperation with the Division of Retrovirology, Walter Reed Army Institute of Research, is seeking qualified applicants for Postdoctoral positions in two areas: Area 1) An internationally recognized program in the genetic variation and epidemiology of HIV-1, led by Dr. Francine E. McCutchan, is seeking applicants with a Ph.D. in Molecular Biology or Microbiology/Virology or with an M.D. and laboratory research experience for projects in HIV-1 variation using PCR, molecular cloning, automated DNA sequencing, and phylogenetic analyses on microcomputers. Work will be conducted in small, intensive molecular evolution group within a comprehensive HIV-1 vaccine development program. Area 2) The Virology/Pathology laboratory of Dr. John Mascola and Dr. Sarah Frankel is a highly collaborative, multidisciplinary component of the HIV-1 vaccine research program and performs animal model and *in vitro* studies on the role of antibody in protection against HIV and on the interaction of HIV at mucosal surfaces, with emphasis on the role of dendritic cells. The candidate should have a Ph.D. in Immunology or Virology and extensive experience with cell culture techniques.

Salary commensurate with experience. Please send résumés to:

Human Resources Department

Area 1) Attn: PL4980058

Area 2) Attn: PL4970453

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QUALITY ASSURANCE

Wyeth-Lederle Vaccines and Pediatrics (WLVP), a member of the Wyeth-Ayerst family, is recognized internationally as a leader in the research, development and manufacture of vaccines for prevention of viral and bacterial diseases. We currently have the following immediate opportunities at our Pearl River, NY location:

SR. SCIENTIST - Immunochemistry

Successful candidate will develop and implement immunochemistry methods needed to quantitate and/or characterize the potency, stability or antigenicity of marketed products or new products in development. Validating new or improved methods to demonstrate suitable specificity, sensitivity, accuracy and precision will also be expected. Individual will also validate the performance of routine methods.

This position requires a Ph.D. in Immunochemistry, Microbiology, Biochemistry or related discipline. Experience should include 8 years experience with immunochemical analysis of biologicals or bio-therapeutics. Background with ELISA, nephelometry, CIE, Latex Agglutination, and immunoprecipitation is required. Supervisory experience a plus.

SR. MANAGER QA

Responsibilities will include developing or improving analytical testing methods and assays with suitable specificity, sensitivity, accuracy and precision to characterize and quantitate the chemical composition of marketed products and products in development. Serving as the department's technical expert in the development of chemical analytical methods will also be involved. Candidate will be responsible for supervising the analytical chemistry group, supporting the technical services group in numerous cleaning validation programs, and performing or coordinating the performance of chemical analysis for routine cleaning monitoring programs. Troubleshooting and solving problems with assays and tests will also be expected.

Qualifications include a Ph.D. in Chemistry, Analytical Chemistry or Biochemistry and 8 years Research & Development experience in vaccines, analytical development, and cGMP. Prior supervisory experience desirable. Proficient computer skills necessary.

We offer competitive compensation and benefits, including a Savings Plan. If you wish to be considered for one of these outstanding opportunities, please send your resume including salary history, and indicating position of interest, to: Wyeth-Lederle Vaccines and Pediatrics, Human Resources, 401 No. Middletown Road- #140/402, Pearl River, New York 10965. Principals Only Please. An Equal Opportunity Employer.



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Hexos, Inc.

Hexos, Inc. is a dynamic biotech company engaged in the discovery of novel therapeutics to treat type 2 diabetes and prevent diabetic complications. We are expanding our research efforts to include four positions in molecular and cell biology.

Molecular Biology

We seek self-motivated individuals with experience in heterologous gene expression and antisense technology to establish a program for evaluating potential drug targets arising from Hexos' molecular screening system. Opportunities also exist to investigate regulation of gene expression in the context of insulin resistance and glucose toxicity. Both Senior Scientist (Ph.D.) and Research Associate positions (B.S./M.S.) are available.

Cellular Biology

Selected individuals will join our glycobiology group to investigate the mechanisms underlying glucose-induced insulin resistance and to explore the role of cytosolic glycosylation and cytokines in glucose toxicity. Candidates should have a background in biochemistry, cellular metabolism, enzymology, and assay development. Senior Scientist (Ph.D.), Research Associate (B.S./M.S.), and Postdoctoral positions are available.

Hexos offers an exciting research environment in the Pacific Northwest (near Seattle), a competitive salary with comprehensive benefits, and relocation assistance. For consideration, send a résumé with the names of three references to: **Human Resources, Hexos, Inc., 22118 20th Ave S.E., Suite G-142, Bothell, WA 98021.**



The Department of Molecular, Cell and Developmental Biology of UCLA's College of Letters and Science is engaged in a broad search of candidates to fill positions at the levels of Assistant or Associate Professor. Areas of research interest may include Genetics of Prokaryotes or Eukaryotes, Cell or Developmental Biology, Molecular Parasitology and Plant Molecular Biology. Candidates are expected to develop a strong research program and to actively engage in the College's educational activities. We offer competitive startup funds and salaries, and an outstanding collegial atmosphere conducive to independent, as well as collaborative, research.

Send curriculum vitae, a research experience and aims statement, and the name, title, and full address, of three references to: Faculty Search c/o Dr. Lutz Birnbaumer, Professor and Chair, UCLA, Department of MCD Biology, Box 951606, Los Angeles, CA 90095-1606. Please apply by March 30, 1998.

Visit us at <http://www.lifesci.ucla.edu/mcddb>

Scientific Administrator, Office of Grant Support

Bring your expertise to our renowned team at Albert Einstein College of Medicine of Yeshiva University. As one of the nation's most prestigious medical schools and research centers, we offer a stimulating environment that's highly conducive to professional growth. Currently, we have an exceptional opportunity for an Administrator to lead the activities of our Office of Grant Support.

In this role, you will contribute to increasing our overall success rate in obtaining grants. Key responsibilities will include identifying new federal and non-federal funding opportunities; accessing and maintaining current information on research aims, award rates, eligibility requirements, etc.; advising investigators on topics related to grant acquisition; coordinating the preparation of interdepartmental applications, site visits and awards committee applications; overseeing the acquisition and use of web-based and other computer systems; and developing written faculty handbook on grants.

The ideal candidate will have graduate training in a related field, significant research grant experience, strong leadership skills, knowledge of information technology and superior communication and interpersonal skills.

We offer a comprehensive benefits package, including four weeks vacation and an immediately vested retirement plan. Please send or fax resume to: **DM-Human Resources Dept, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Ave., Bronx, NY 10461, Fax (718) 430-4098. EOE.**

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Laboratory Chief, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH seeks an individual to head a Laboratory at the Rocky Mountain Laboratories (RML). This program is located in the Bitterroot Valley in Hamilton, Montana, and is a component of the NIAID Division of Intramural Research. This position requires an M.D., Ph.D., or equivalent with proven leadership abilities and a strong independent research program. Preference will be given to candidates with research interest in bacterial pathogenesis including emerging and reemerging infectious diseases and those whose program complements other research programs at the RML. The Laboratory Chief will have independent resources to conduct their research and will supervise other Principal Investigators with independent research programs. A Laboratory Chief in the Division of Intramural Research is equivalent to a Department Head in a University or Medical School. *Applicants must be U.S. citizens or permanent residents.* Salary depends on degree and qualifications and ranges up to \$148,400. Interested persons may contact **Dr. Karyl Barron, Deputy Director, DIR, NIAID at (301) 402-2208 or {kbarron@niaid.nih.gov}** for additional information about the position. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests, and selected publications should be submitted by March 31, 1998, to: **Ms. Melissa Keller, Office of Human Resources Management, NIAID, Building 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520.**

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Director of Technology Transfer

The State University of New York at Buffalo Business Alliance invites applications for the position of Director of Technology Transfer. The University at Buffalo is the largest and most comprehensive public research university in New York and New England. Sponsored program expenditures in 1996-97 exceeded \$120 million. During this period, 74 disclosures were received, 41 patent applications filed, 23 patents issued, and 8 license agreements executed.

The Director will manage a comprehensive program for technology transfer within the University's overall economic development/industrial outreach strategic plan. The appointee will focus on the marketing and licensing of intellectual and tangible property developed by faculty and staff of the university. Responsibilities will include determining patentability of technologies; administration of intellectual property protection; patent filing and prosecution; working with the marketing staff to evaluate the commercial potential of patents and marketing plans; negotiation, drafting, and monitoring of license agreements; administration of office and legal services budgets; and review and advise on intellectual property provisions of sponsored program agreements.

Requires thorough understanding of technology transfer within a university or private industry, ten-plus years and an undergraduate degree in a technical field. Advanced degree in management, law, science, or engineering, and three-plus years of experience with increasing responsibilities in technology transfer preferred. Demonstrated ability to work within a team environment and leadership with proven track record of entrepreneurialism, flexibility, and responsiveness.

Apply to: **Dr. Andres Soom, Chair, Technology Transfer Search, University at Buffalo, 412 Bonner Hall, Buffalo, NY 14260-1900, Fax: (716) 645-2495.**

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With a new state-of-the-art facility in North Carolina's Research Triangle Park, Covance Biotechnology Services provides the biotechnology and pharmaceutical industry with world-class process development and cGMP manufacturing for recombinant products. Join us as we put our clients' products and your career onto the fast-track. We are currently recruiting for the following key positions:

■ SENIOR SCIENTIST, PROTEIN MASS SPECTROSCOPY AND ANALYTICAL PROTEIN CHEMISTRY

In this position, you will focus on analytical protein chemistry within the process development department. You should have a Ph.D. in Biochemistry or Protein Chemistry along with a significant record in the characterization of proteins by mass spectroscopy. You should have experience discussing protein characterization with the FDA in regard to the filing of INDs and BLAs as well as in developing an analytical package for a "well-specified protein" as defined by the FDA. Your analytical experience should also include protein sequencing, peptide mapping, glycosylation analysis, and other biochemical and biophysical protein analytical tools. Experience in transferring assays to a quality control group is also desired. This position offers an opportunity for significant interaction with internal scientists, as well as client scientific and regulatory staff from throughout the world. (Job Code: SC-130)

■ ASSOCIATE DIRECTOR, FORMULATION DEVELOPMENT

In this position, you will establish a protein formulation development expertise within the process development department. You should have a Ph.D. in Biochemistry along with a significant development record of protein formulations with long-term stability. Your experience should include the development of protein stability-indicating methods and the generation of comprehensive analytical packages for regulatory submissions. Experience in the development of formulations for lyophilization and in lyophilization cycle development will be considered a significant plus. This position offers an opportunity for significant interaction with internal scientists, as well as client scientific and regulatory staff from throughout the world. (Job Code: SC-131)

■ SENIOR SCIENTIST, FORMULATION DEVELOPMENT

In this position, you will be responsible for the development of formulations and formulation processes for protein therapeutics. You should be knowledgeable in the field of biophysical chemistry and in techniques to achieve protein formulations with long term stability. You should have experience in developing formulations for lyophilization as well as lyophilization cycle development. Your analytical experience should include methods for quantitation of protein degradation and characterization of degradation products. A Ph.D. (or equivalent experience) in Biochemistry or Protein Chemistry and 5+ years' relevant experience is required. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-132)

■ SENIOR SCIENTIST, PURIFICATION DEVELOPMENT

In this position, you will be responsible for the development of processes for the manufacturing of biopharmaceuticals and the transfer of these processes to Covance cGMP manufacturing facility. A Ph.D. (or equivalent experience) in Biochemistry or Protein Chemistry is required. 5+ years' experience in protein purification and protein chemistry is also required along with knowledge in the areas of chromatographic methods, centrifugation, and ultrafiltration techniques. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-133)

■ MANUFACTURING PROCESS SPECIALIST

In this position, you will be responsible for assisting in the transfer of processes from clients or Process Development to Manufacturing. You would be responsible for troubleshooting new processes as they are transferred to Manufacturing. You should have experience in developing biopharmaceutical processes using various unit operations including column chromatography, centrifugation, and ultrafiltration/diafiltration. Also, you should possess a good working knowledge of cGMPs and process qualification and a good working knowledge of various processing equipment including chromatography columns, UF/DF equipment, homogenizers, and centrifuges. Experience in handling protein solutions is highly desirable. A MS (or equivalent) in Chemical Engineering or Biochemistry along with 5 years of relevant experience or BS in Chemical Engineering or Biochemistry with 8 years of experience is required. Leadership capabilities and the ability to work in a team are required traits. (Job Code: SC-134)

■ MANUFACTURING ASSOCIATES: FERMENTATION/CELL CULTURE/PURIFICATION

In these positions, you will be responsible for the manufacture of cell culture and/or fermentation products including protein purification. A BS degree in a technical area (or equivalent job related experience) is required, along with 2+ years' hands-on experience in a cGMP environment, including experience with fermentors, bioreactors, centrifugation equipment, chromatographic and/or ultrafiltration systems. (Job Code: SC-135)

Please send resume with job code to: **Covance Biotechnology Services, Director-Human Resources, P.O. Box 13865, Research Triangle Park, NC 27709-3865, or fax to (919) 468-9070.** Only those selected for further consideration will be contacted. PRINCIPALS ONLY. Covance is an equal opportunity employer.

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DRUG METABOLISM SCIENTISTS

Positions are available for drug metabolism and analytical scientists who are interested and want to be active participants in the drug discovery effort at Merck Research Laboratories.

Drug Metabolism (Group Leader) – Ph.D. degree in Chemistry/Pharmacology/Biochemistry (or a related field) with 5-10 years experience in the field of drug metabolism or pharmacokinetics are required. The successful candidate will lead a group of scientists in performing drug metabolism studies in support of drug discovery and development and will work closely with task teams consisting of chemists and biologists. The candidate should have a strong performance record in drug metabolism research, a proven record of publication in his/her research areas and be a creative problem-solver. Experience in supervision of research and excellent verbal and written communication skills are very important for this position.

Drug Metabolism (Senior and Associate Scientists) – B.S./M.S./Ph.D. degree in Chemistry/Biochemistry (or related field) with 2-5 years of research experience are required. Knowledge of drug metabolism with demonstrated strength in modern analytical techniques such as HPLC, NMR and mass spectrometry are desirable. Other desirable experience includes separation technology, drug metabolizing enzymes, biochemical toxicology, molecular biology and cell culture. Effective speaking and writing skills are required.

Mass Spectrometry (Senior and Associate Scientists) – B.S./M.S./Ph.D. degree in Chemistry/Biochemistry (or related field) with 2-5 years of research experience in bioanalytical techniques are required. A strong background in instrumental analysis (mass spectrometry and liquid chromatography) and organic chemistry is preferred. The successful candidate should have an interest in the application of new technologies to drug discovery and be innovative in solving analytical problems. Experience in drug metabolism is desirable but not essential.

Biologist (Associate Scientist) – B.A./B.S. degree in Biology/Animal Science/Physiology or a related field is required. The successful candidate will design and conduct the in-life phase of pharmacokinetic and metabolism studies in laboratory animals (rodent, dog, primate, etc.) Candidate must have an interest in animal surgical model development and have experience in performing established vein/artery catheterization and bile duct cannulation procedures in rodents.

Merck Research laboratories are located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume with the names of three references to: Merck & Co., Inc., P.O. Box 2000, AD # 63, Rahway, NJ 07065, RY80A-3. EEO/AA/VH Employer.



Research Laboratories



DEAN College of Arts and Sciences, Northeastern University, Boston

The Dean is the chief academic and administrative officer of the College and is responsible for curricula, budgets, personnel matters, and planning. Northeastern University, a Carnegie II research university, is student centered, practice oriented, and urban. The College has approximately 300 faculty serving over 3,600 undergraduate and over 800 graduate students. The candidate should have an outstanding record of research, teaching, and scholarship, and should qualify for the rank of Professor with tenure in one of the departments of the College. Candidates should have substantial administrative experience, strong interpersonal and communication skills, ability to attract external support, and skills to administer the diverse academic and professional programs within the College.

More information about this position is available at <http://www.casdn.neu.edu>. Nominations are welcome. Applicants should submit a complete resume, and the names and addresses of three references. Permission of the applicant will be sought prior to references being contacted. Review of applications will begin on March 1, 1998. All materials, including nominations and inquiries, should be directed to Dr. Richard Porter, Chair, Arts and Sciences, Dean Search Committee, Faculty Senate Office, 440 Ryder Hall, Northeastern University, 360 Huntington Avenue, Boston, MA 02115. Northeastern is an Equal Opportunity/Affirmative Action, Title IX Employer.

Northeastern University

University of Washington Employment Opportunities RESEARCH SCIENTIST

Department: Center for Nanotechnology.
Reference: 98-073

The Center for Nanotechnology at the University of Washington is seeking applications for the position of a full-time core staff scientist on the Ph.D. level to lead the establishment and operation of the Nanotechnology user facility. The facility will be equipped with state-of-the-art instrumentation for *in-situ* analysis of nanoscale structures on surfaces and in bulk materials. The major long-term responsibilities of the core scientist will be to maintain the equipment and the facility, and to educate undergraduates, graduate students, and postdoctoral fellows in the use of the instrumentation, data acquisition with the instruments, and interpretation of the data acquired with them. The staff scientist will supervise the student users of the facility on a regular basis, improve and develop the instrumentation according to users' needs. In collaboration with faculty, the staff scientist will organize and teach summer courses for students and industrial partners.

Requirements: Doctoral or postdoctoral work should include experience in two or more of the following areas: scanning probe microscopy (AFM, STM), optics including near-field microscopy and/or optical tweezers, electron microscopy, and/or in the field of molecular assembly processes. Equivalent education/experience may substitute for stated requirements.

For more information please contact: Viola Vogel, Ph.D., Director, Center for Nanotechnology Box 357962, University of Washington, Seattle, WA 98195; (206) 616-9760; e-mail: muir@bioeng.washington.edu.

Salary Range: \$3,540 – 5,000

To apply, send a résumé and letter describing relevant experience by Friday, March 13, 1998 to: Sharon K. Larsson, Administrator Bioengineering, Box 357962, University of Washington, Seattle, WA 98195.

The University of Washington is an Equal Opportunity, Affirmative Action Employer.

A TENURE-TRACK POSITION AT THE ASSISTANT PROFESSOR LEVEL is available in the Department of Neuroscience at the University of Pittsburgh, starting September 1, 1999. We invite applicants with research interests in one of three areas: homeostatic regulatory processes and their control by central neural systems; neurochemical approaches to the study of neurological and psychiatric disorders; molecular neurobiology. All applicants should have at least 2 years of postdoctoral experience and interest in developing a productive program of research and in contributing to graduate and undergraduate education. By April 15, 1998, send curriculum vitae, three letters of recommendation, and a description of current and future research programs to:

**Search Committee
Department of Neuroscience
446 Crawford Hall
University of Pittsburgh
Pittsburgh, PA 15260**

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Tenure-Track Positions Assistant Professor Equivalent

Molecular Biology and Immunology

The Clinical Immunology Section, Laboratory of Immunology, National Eye Institute, National Institutes of Health, Public Health Service is searching for a tenure track PhD or MD scientist with expertise in molecular biology and immunology to establish studies on the immunology of human ocular inflammatory disease. The candidate's work will complement ongoing studies in the Laboratory on the study of the mechanisms that lead to immune reactions in the eye. Space, postdoctoral fellow support, supply budget and salary are committed. Training in molecular cloning, protein analysis, cellular immunology and immunomodulatory states is desirable. Applicants must be U.S. citizens or permanent residents. Please submit applications to Igal Gery, PhD, Chief, Laboratory of Immunology (OE-132), NEI, Building 10, Room 10N208, 10 CENTER DR MSC 1857, BETHESDA MD 20892-1857. Deadline date is March 30, 1998.

Ophthalmologist

The National Eye Institute invites applications from Ophthalmologists interested in the development and function of binocular vision. Applicants for this tenure track position should have expertise in pediatric ophthalmology including strabismus surgery. Interest in collaborating on the development of the methodology of recording eye movements in infants is

desirable. The successful candidate will be expected to establish a research program related to the understanding of the etiology of strabismus. The position is located in the Laboratory of Sensorimotor Research which is devoted to understanding the organization of the brain related to the control of eye movements and visual perception, and provides advanced computer and research support for the investigation of these systems in humans as well as non-human primates. Please submit applications to Ms. Cheryl Wild, NEI Personnel Management Branch (OE-132), Building 31, Room 6A18, 31 CENTER DR MSC 2510, BETHESDA MD 20892-2510. Deadline date is April 1, 1998.

To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to two-page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

WWW Site

Visit the NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at <http://www.training.nih.gov>



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The University of the West Indies

St Augustine, Trinidad

Applications are invited for the following post:

Veterinary Medicine: Lecturer/Assistant Lecturer

in Veterinary Surgery with DVM or equivalent professional degree registerable in Trinidad and Tobago. Higher degree or board Certificate an advantage.

ANNUAL SALARY RANGES: US\$1.00 = TT\$6.30. **Medical:** Lecturer: TT\$115,200 x TT\$2,952 - TT\$127,008/TT\$137,112 x TT\$2,952 - TT\$148,920; Assistant Lecturer: TT\$93,840 x TT\$2,952 - TT\$99,744. Plus an Institutional Allowance, Regional Allowances, Passages, Pension, Housing Allowance, Study, Travel and Book Grants. Detailed applications (**two copies**) giving full particulars of qualifications and experience, date of birth, nationality, marital status and the names and addresses of three referees, one of whom should be from your present organisation, should be sent as soon as possible to the Campus Registrar (Attn: Administrative Officer, Appointments), The University of the West Indies, St Augustine, Trinidad, West Indies. (fax: (1 868) 663 9684) from whom further particulars of the post can be obtained. In order to expedite the appointment procedures, applicants are advised to ask their referees to send references under **Confidential** cover **DIRECTLY** to the Campus Registrar at the above address without waiting to be contacted by the University. Further particulars will be sent to all applicants and are also available from Association of Commonwealth Universities (46480), 36 Gordon Square, London WC1H 0PF, UK (tel: 0171 387 8572 Ext 206; fax 0171 383 0368; email: appts@acu.ac.uk).



ACU

A member of the Association of Commonwealth Universities

THE FOREST RENEWAL BC CHAIR IN SILVICULTURE

Department of Forest Sciences
The University of British Columbia

The University has recently established an endowed chair in silviculture in the Department of Forest Sciences supported by Forest Renewal BC, and we invite applications for the position, which is expected to be filled at the full professor level. This prestigious position comes with opportunities for establishing a substantial research program and for playing an important role in guiding public policy. The main task of the successful candidate will be to bring the relevant scientific knowledge and understanding to the public debates concerning silviculture strategy and practice. The position will require research leadership, supervision of graduate students, and some teaching at both the undergraduate and graduate level.

Applicants should have a PhD, extensive experience in silviculture, a broad understanding of forest management issues, a well established research program, and a record of successful involvement in public debate concerning policy formulation in Forestry. Teaching experience is desirable.

The University of British Columbia has established programs in several areas of biology and management. The Centre for Applied Conservation Biology, the Centre for Biodiversity Research, the Sustainable Development Research Institute and the academic departments in the Faculties of Forestry, Science and Agricultural Sciences form a strong supporting community of scholars. The University manages two Research Forests, one near Vancouver and one in the central Interior of the province.

The forests of British Columbia are rich and varied, and the management of these forests is at a critical juncture where new demands for their use and conservation include a wide range of products and processes. Forests in near natural states as well as second growth forests will require many new silvicultural approaches to satisfy diverse demands.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority is given to Canadian citizens and permanent residents of Canada.



Please direct enquiries and applications consisting of a Curriculum Vitae, the names of 3 referees, and a brief outline of expertise and research interests, by Friday, April 3, 1998, to: Dr. Sally Aitken, Department of Forest Sciences, University of British Columbia, 193-2357 Main Mall, Vancouver, BC, Canada V6T 1Z4. Tel: (604) 822-6020; Fax: (604) 822-5744; e-mail: aitken@unixg.ubc.ca.



The University of Florida, College of Medicine seeks a Director for the University of Florida Shands Cancer Center. Candidates should have an M.D. or M.D./Ph.D. degree with a nationally recognized record of research achievement and administrative experience in oncology. The responsibilities of this position will include: lead the design and implement multidisciplinary research, education, and clinical programs in oncology and related disciplines; to recruit faculty and staff to enhance new and current research and clinical programs; and to expand extramural funding for center support. The Director will hold a tenure-accruing faculty position in the appropriate department of the College of Medicine. Academic rank and salary will be commensurate with experience.

Letters of application should include a curriculum vitae with a brief summary of relevant research, clinical, and administrative experience and the names of three or more references. Applications should be sent to: Douglas J. Barrett, M.D., Search Committee Chairman, Cancer Center Director, Box 100296, University of Florida, Gainesville, FL 32610. The application deadline will be April 15, 1998; Anticipated start date will be July 1, 1998.

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

PHARMACOLOGY Chairperson

The School of Medicine at Tulane University Medical Center invites applications and nominations for the position of Professor and Chair of the Department of Pharmacology. The position offers exciting opportunities to lead this highly successful department through new research frontiers in the pharmacological sciences and innovative approaches to medical education. Extensive interactions are possible with other medical school basic and clinical science departments and interdisciplinary Medical Center research initiatives in cancer biology, cardiovascular medicine, infectious disease, neuroscience, gene therapy, women's health, bioenvironmental sciences, and basic molecular and cellular biology. Applications and nominations may be sent to:

Pharmacology Search

Office of the Dean
Tulane University School of Medicine
1430 Tulane Avenue, SL 77
New Orleans, LA 70112

Applicants should submit a letter of interest accompanied by a comprehensive curriculum vitae and the names and addresses of four references. The deadline for receipt of applications is May 1, 1998.

*Tulane University is an AA/EEO Employer.
Women and minorities are encouraged to apply.*

The Ohio State University College of Biological Sciences

Chair and Eminent Scholar, Department of Biochemistry

The Ohio State University College of Biological Sciences invites applications and nominations for the joint position of Chair, Department of Biochemistry, and Ohio Eminent Scholar. The Department presently has fifteen full-time faculty with research programs focused on Molecular Structure and Molecular Biology/Structure and Function. It directs an undergraduate degree program leading to a B.S. or B.A. in Biochemistry, and participates in the campus-wide graduate program in Biochemistry at the University awarding the degree of Ph.D. in Biochemistry. The Department of Biochemistry is one of six departments in the College of Biological Sciences, which also includes Departments of Entomology, Microbiology, Molecular Genetics, Plant Biology, and Zoology.

The associated Ohio Eminent Scholar position is an endowed chair sponsored by the State of Ohio in the general areas of Protein Engineering/Macromolecular Structure and Function. It is expected that in addition to the administrative and leadership responsibilities associated with the position of departmental Chair, the successful candidate will conduct a vigorous research program in the general area of structure-function relationships of biological macromolecules. A generous start-up package is associated with the position, including a number of new faculty positions to be recruited in the Department of Biochemistry.

A Ph.D. in Biochemistry (or a closely related field) and qualifications appropriate for appointment at the rank of Professor are required. The successful candidate will also have a distinguished record of scholarly productivity, an internationally recognized program, aptitude for administration of an integrated academic program, and demonstrated leadership and organizational skills.

Review of applications will begin April 15, 1998, with the search continuing until the position is filled. Materials, including an application letter, full curriculum vitae, and the names and addresses of four references should be directed to: Dr. Robert Brueggemeier, Biochemistry Chair/Eminent Scholar Search Committee, College of Biological Sciences, 105 Biological Sciences Building, The Ohio State University, 484 W. 12th Avenue, Columbus, OH 43210-1292.

The Ohio State University is an Affirmative Action/Equal Opportunity Employer. Women, underrepresented minorities, and Vietnam-era veterans are encouraged to apply.



The Bios Group is a rapidly growing software/consulting company applying results of research in complexity and complex adaptive systems (CAS) to solve business problems. Located in Santa Fe, New Mexico, we are looking for enthusiastic self-starters who thrive in a fast-paced environment. Bios is hiring individuals with backgrounds in CAS, physics, mathematics, biology, or chemistry who possess outstanding simulation and analysis skills. At Bios, **Senior Scientists** interact with clients to define problems and work with **Scientists** and **Software Engineers** to implement solutions. We have an ongoing need to fill all three positions.

Additionally, we have openings for **Postdoctoral Fellows** with similar educational backgrounds to work with **Dr. Stuart Kauffman**. These positions involve work in computational biology with a focus on genetic regulatory networks, complex chemical reactions, and the origin of life.

Bios offers competitive salary and benefits as well as participation in our financial growth. Please forward résumés to:

Bios Group, LP
317 Paseo de Peralta
Santa Fe, NM 87501
Attn: Johanna Hilla
johanna@biosgroup.com
www.biosgroup.com

Cardiovascular Pharmacology

SmithKline Beecham is a world leader in pharmaceutical research, built on the excellence and dedication of our employees. We currently have opportunities available at several levels in our Cardiovascular Pharmacology department. These positions will entail establishing independent basic cardiovascular research in transcriptional regulation and functional genomics to expand discovery opportunities in cardiovascular disease therapeutics. Experience in areas including atherosclerosis, hypertension, thrombosis and tissue remodeling is preferred. The research environment is highly interactive and collaborative.

The ideal candidates will have experience in gene expression and functional genomics, typical of a PhD with some postdoctoral experience, or a graduate with equivalent relevant experience and extensive theoretical understanding of the area. Basic knowledge of and skills in molecular biology and related disciplines are also essential. It is anticipated that candidates will have a record of high quality publications in peer reviewed professional journals. Good oral presentation skills and PC literacy are also a prerequisite.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package as well as a stimulating work environment in which to grow and excel. For confidential consideration please send resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code D70506S, P.O. Box 2646, Bala Cynwyd, PA 19004.

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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Staff Scientist Gerontology Research Center National Institute on Aging

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, Maryland, invites applications for a position for a staff scientist at the Gerontology Research Center (GRC). Starting salary commensurate with qualifications and experience.

The staff scientist will be responsible for managing the newly established core facility of DNA microarray at GRC (70% of the time), and conducting a related research program (30% of time). The core facility will have 2-3 supporting positions, and provide service for all laboratories in the Intramural Research Programs. The ideal candidate will have knowledge and/or experience on DNA microarray, a solid background in molecular biology, and the ability to further develop the technology.

Applicants must have a Doctoral Degree with a record of scientific accomplishments, including excellence in laboratory research and qualifications of managing and updating the core facility.

How to Apply: Applicants should send curriculum vitae, bibliography, and 1,000-word overview of a proposed program along with names, addresses, and telephone numbers of three references to:

**National Institute on Aging
Gerontology Research Center
Attn.: Karen L. Maben, Box 26
Vacancy # VA-AG-98-06
5600 Nathan Shock Drive
Baltimore, MD 21224**

The deadline for application is April 30, 1998.
NIA is an Equal Opportunity Employer.

ASSOCIATE DIRECTOR COMPARATIVE MEDICINE

National Center for Research Resources
National Institutes of Health

The National Center for Research Resources (NCRR) is seeking applicants for the position of Associate Director, Comparative Medicine, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of \$103,897 to \$123,100 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position. A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

The Associate Director for Comparative Medicine, NCRR, manages a broad research and resources area related to Laboratory Animal Sciences, AIDS Animal Models, Regional Primate Research Centers, and Biological Models and Materials Resources. These programs provide support for sophisticated mammalian and non-mammalian resources, genetic repositories for animals, both vertebrate and invertebrate, microorganisms and cells. The program also supports post-doctoral training and career development for veterinarians. The ADCM has a continuing responsibility to match the Comparative Medicine area's research and resource scope and content with the needs of the biomedical research community, especially for investigators supported by other NIH components. This responsibility involves a multifaceted portfolio of sponsored activities which includes Regional Primate Research Centers, mammalian and non-mammalian model development, special types of research animal colony development and support, national repositories for induced mutants for rodents and other organisms as well as nonhuman primate breeding and research projects. The ADCM must provide the national scientific leadership for the planning, formulation, program review, development and evaluation of all activities which are encompassed by this area. Applicants for this Senior Executive Service position must have a Doctor of Veterinary Medicine or a Ph.D. in one of the health sciences (or equivalent combination of experience and training). Send applications to: Ms. Patheria Wiggins, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 496-1524. Deadline for applications is March 15, 1998.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

The NIH is an Equal Opportunity Employer

POSITIONS OPEN

TENURE-TRACK POSITION DEPARTMENT OF LABORATORY MEDICINE AND PATHOBIOLOGY Faculty of Medicine

The Department of Laboratory Medicine and Pathobiology is seeking applicants for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** available July 1, 1998. We are particularly interested in individuals working in the area of molecular neuroendocrinology, especially as it relates to transcriptional mechanisms and mechanisms of disease. Candidates must have a Ph.D. or equivalent and have an established funded research program. Teaching experience at the undergraduate and graduate level is an important asset.

The successful candidate is expected to actively participate in graduate and undergraduate teaching and maintain an independent research program and interact with other Investigators of the Department and of the Faculty of Medicine. The Department of Laboratory Medicine and Pathobiology has Investigators on the University of Toronto campus and at the major teaching hospitals in Toronto and features several areas of strong molecular research in mechanisms of disease.

Applicants should send curriculum vitae, description of their research accomplishments, and the focus of their planned research program by March 31st, 1998, or until position is filled. Letters of reference from three individuals familiar with the candidate should be sent directly to: **The Chair, Tenure Stream Search Committee, Department of Laboratory Medicine and Pathobiology, Faculty of Medicine, University of Toronto, Room 110, 100 College Street, Toronto, Ontario M5G 1L5 Canada.**

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disability.

In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and permanent residents.

FACULTY POSITION IN STRUCTURAL BIOLOGY UNIVERSITY OF ILLINOIS AT CHICAGO Department of Biochemistry and Molecular Biology College of Medicine

As part of a major initiative in building structural biology at the University of Illinois at Chicago, the Department of Biochemistry and Molecular Biology invites applications from well-qualified individuals for tenure/tenure-track faculty positions. Candidates' research interests should be in the application of structural methods, particularly X-ray crystallography or NMR spectroscopy, to answer medically relevant questions in the broad area of biochemistry. Successful applicants will be expected to develop strong, externally funded research programs and to teach graduate and/or medical students. Access to newly purchased X-ray and NMR equipment tailored to macromolecular structural studies will be available. Salary and start-up packages will be competitive. Interested and qualified candidates should send a letter of interest, curriculum vitae, a statement of present and future research interests, and arrange for three letters of recommendation to be sent to: **Dr. Peter Gettins, Chair, Structural Biology Search Committee, Department of Biochemistry and Molecular Biology, M/C 536, University of Illinois at Chicago, 1853 West Polk Street, Chicago, IL 60612.** For full consideration completed applications should be received by April 1, 1998. If two individuals wish to be considered jointly, each should so indicate at the time of applying.

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

FACULTY RESEARCH

The Division of Nephrology at Duke University is seeking an individual for a tenure-track position in basic science research. We are seeking interactive individuals who are committed to leading a vigorous independent research program. We are particularly interested in candidates with interest in vascular biology and immunology, but qualified Investigators with other areas of interest are encouraged to apply. Faculty appointment will be at the **ASSISTANT/ASSOCIATE PROFESSOR** level based on qualifications. Send written inquiries with current curriculum vitae to: **Thomas M. Coffman, M.D., Division of Nephrology, Box 3014, Duke University Medical Center, Durham, NC 27710.** Minorities and women are encouraged to apply. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

VIROLOGIST DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY University of Alberta

The Department of Medical Microbiology and Immunology, University of Alberta, invites applications for a faculty position in virology at the **ASSISTANT** (\$39,940 to \$55,882 per annum) or **ASSOCIATE PROFESSOR** (\$49,052 to \$70,124) level. The position is an entry into the regular academic progression of the University. We offer an outstanding research environment and graduate training program in virology, bacteriology, and immunology (see website: <http://www.ualberta.ca/~mmid/>). Applicants should have a proven record of research achievement, and be eligible for funding by the Alberta Heritage Foundation for Medical Research. The successful candidate will be expected to develop a dynamic research program and contribute to undergraduate teaching in virology. An attractive start-up package, including three years of initial salary support, will be provided.

Individuals with a Ph.D. or M.D. and appropriate postdoctoral experience should send a curriculum vitae and brief description of research plans, and arrange to have three to five letters of reference sent on their behalf to: **Virology Search Committee, c/o Dr. James R. Smiley, Chair, Medical Microbiology and Immunology, 1-41 Medical Sciences Building, University of Alberta, Edmonton, Alberta T6G 2H7 Canada.** The deadline for receipt of applications is April 30, 1998.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disability, and members of visible minorities.

ASSISTANT PROFESSORS UNIVERSITY OF PENNSYLVANIA

The Department of Animal Biology in the School of Veterinary Medicine at the University of Pennsylvania (Penn) has two faculty positions at the **ASSISTANT PROFESSOR** level. These are tenure-track positions in a department strongly oriented to basic research within the biomedical community at Penn. Scientists with research interests in the areas of cell signaling and signal transduction are encouraged to apply, but outstanding candidates in the broad fields of cell biology, cancer cell biology, physiology, pharmacology, and molecular toxicology will be considered as well. Applicants should have a Ph.D., M.D., V.M.D., or equivalent degree along with significant postdoctoral training; be prepared to establish an independent, extramurally funded research program; and should expect to participate in teaching in the department and in University-wide graduate programs.

Interested candidates should submit a curriculum vitae and three letters of reference to: **Dr. Erika Holzbaur, Search Committee Chair, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6046.** Applications are due by March 31, 1998. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

PHYSIOLOGY FACULTY POSITION

Tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Clinical Research/Biomedical Sciences of the Ohio University College of Osteopathic Medicine. Primary responsibilities are to teach medical physiology in a clinically oriented curriculum and to develop a viable research program. Candidates must be well-trained scientists interested in teaching clinically relevant, organ system-level physiology in an innovative, interdisciplinary atmosphere. The Ph.D. or equivalent is required and postdoctoral training or equivalent experience is highly desirable. The appointment is to begin in the fall of 1998. The 11-month salary will be commensurate with experience, and is accompanied by an excellent benefit package. Review of applications will begin March 15, 1998, but applications may be tendered until the position is filled. Submit a statement of career interests, a curriculum vitae, representative reprints, and three (3) letters of recommendation to: **John N. Howell, Ph.D., Search Committee Chair, Ohio University College of Osteopathic Medicine, 326 Grosvenor Hall, Athens, OH 45701.** E-mail: howell@ohiou.edu.

Ohio University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR FLORICULTURE BREEDING AND GENETICS UNIVERSITY OF MINNESOTA, ST. PAUL

Applications are invited for a 12-month, tenure-track Assistant Professor position in floriculture breeding and genetics. Research on the genetic improvement of annual and/or herbaceous perennial floricultural crops with potential importance in Minnesota. Emphases could include the development of new crop species, novel uses or forms of traditional crops, or genetic improvement of species to improve the sustainability of greenhouse or outdoor production systems, such as resistance and/or tolerance to biotic or abiotic stresses. Teaching in floriculture and related areas and advising of undergraduate and graduate students. Minimum: Ph.D. or equivalent in plant breeding, horticulture, or related discipline with demonstrated expertise in plant genetics by date of appointment; effective oral and written communication skills. Desired: graduate-level course work in floriculture, plant breeding, genetics, and molecular biology; experience in genetic improvement of plants using traditional and/or biotechnological approaches; experience in greenhouse production systems; effectiveness in teaching. Applicants must send curriculum vitae, graduate transcripts, detailed statement of teaching and research interests, and three letters of references to: **Chair, Floriculture Genetics Search Committee, Department of Horticultural Science, University of Minnesota, 305 Alderman Hall, St. Paul, MN 55108.** Review of applications has begun, and continue until position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

Faculty position: The Medical Biotechnology Center (MBC) of the University of Maryland Biotechnology Institute invites applications for a **RESEARCH ASSISTANT PROFESSOR** (non-tenure-track) position in the Department of Molecular Biology and Biophysics. Candidates should have a Ph.D. or equivalent degree, relevant experience in the study of the free radical chemistry and biology of nitric oxide. The candidate should have experience in both organic chemistry, synthesizing spin traps for this free radical and EPR, and fluorescent spectroscopies to identify free radicals in relevant biologic models. The successful candidate will initially be supported from grants; after three years this scientist will need to find support for his/her salary. Candidates should submit a letter of application, a curriculum vitae, three letters of recommendation, and a detailed statement of research interests by April 1, 1998, to: **Dr. Gerald M. Rosen, Chairman of the Search Committee, Medical Biotechnology Center, 725 West Lombard Street, Baltimore, MD 21201.** *UMBI is an Affirmative Action/Equal Opportunity Employer. Women, minorities, candidates with disability, and veterans are encouraged to apply.*

BIOLOGY FACULTY. Full-time, tenure-track position in biology available beginning in fall 1998 in molecular genetics, microbiology, or molecular biology. A Ph.D. is required. The successful candidate is expected to develop courses in genetics and microbiology and participate in a general biology program for non-majors. Research is encouraged. Opportunities exist with nearby USFWS, USDA, and NCI facilities. With an enrollment of over 4,000 students, Shepherd College is located on the banks of the Potomac River approximately 65 miles from Washington, D.C. and Baltimore and is a public baccalaureate institution in the West Virginia State College System. The application deadline is April 1, 1998. Send a cover letter, résumé, and arrange for three letters of reference to be sent to: **Office of Human Resources, Shepherd College, Shepherdstown, WV 25443.** For more information contact: **Dr. Donald Henry, Chair, Division of Natural Sciences and Mathematics, Shepherd College, Shepherdstown, WV 25443.** Telephone: 304-876-5106; e-mail: dhenry@shepherd.wvnet.edu. *Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

ASSISTANT PROFESSOR OF BIOLOGY (TWO) UNIVERSITY OF WISCONSIN COLLEGES

Tenure-track, University of Wisconsin-Fox Valley, and University of Wisconsin-Rock County. Teach anatomy, physiology, sexual biology/zoology/general biology, and possibly bacteriology. Ph.D. preferred; Master's in biology or zoology and solid record of undergraduate teaching considered. For application information see website: <http://www.uwc.edu>. Applications deadline March 31, 1998. *Affirmative Action/Equal Employment Opportunity.*



United States Environmental Protection Agency Postdoctoral Program National Exposure Research Laboratory

The U.S. Environmental Protection Agency (EPA) is seeking candidates to fill as many as **50 federal, three-year postdoctoral research positions** during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Exposure Research Laboratory (NERL). NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators); waste site characterization; remote sensing; and landscape ecology. NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging pathogens in water supplies; exposure of children to pesticides; exposure of humans and ecosystems to endocrine disruptors; multi-pathway exposure modeling in humans; development of integrated multimedia transport and fate models; and assessment of the relative importance of exposure to a variety of stresses in regional ecosystems and large watersheds.

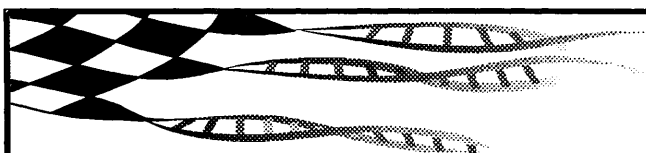
Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, physics, biology, microbiology, ecology, geography, applied mathematics and statistics, human health sciences, meteorology, computer science, and environmental or chemical engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years.

The NERL postdoctoral positions will be located in a division at either Research Triangle Park, North Carolina; Cincinnati, Ohio; Athens, Georgia; Las Vegas, Nevada; or Reston, Virginia, depending on the particular disciplinary focus, and will be filled beginning **September 1998**. These term appointments will last for three years and offer a salary range of **\$38,593–\$60,135**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. *United States citizenship is a requirement of all these jobs.*

If you are interested in these postdoctoral positions, please send a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus and the geographic location(s) you prefer to Ms. Terri Burrell, U.S. Environmental Protection Agency, National Exposure Research Laboratory (MD-75), Research Triangle Park, NC 27711, Attn: Postdoctoral Positions. Please respond to this advertisement no later than **March 31, 1998**. After all responses are reviewed, candidates will receive written notice of the next stage of the application process no later than **June 15, 1998**.

For more information on the complete EPA postdoctoral program, you may access the Office of Research and Development's Internet site at <http://www.epa.gov/ord/>.

The U.S. EPA is an Equal Opportunity Employer.



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CHIEF OF ENDOCRINOLOGY

The Department of Medicine of Baylor College of Medicine is seeking candidates for the position of Chief of the Endocrinology Section.

The Section Chief will oversee major research, educational and clinical activities in endocrinology at Baylor's teaching hospitals, including The Methodist Hospital, the VA Medical Center, St. Luke's Episcopal Hospital and the Ben Taub General Hospital, all located on the campus of The Texas Medical Center. Generous new resources and space, as well as an endowed chair in diabetes research, will be available to the new Chief to recruit new faculty and develop significant new basic and clinical research programs in the Section.

Please send letter of interest and curriculum vitae to:



Bert W. O'Malley, M.D.
Chairman, Department of Cell Biology
Chairman, Endocrinology Chief Search Committee
Baylor College of Medicine BCM-M613
One Baylor Plaza
Houston, Texas 77030

Baylor College of Medicine is an equal opportunity/affirmative action/equal access employer.

POSITIONS OPEN

SENIOR FACULTY POSITION IN INFECTIOUS DISEASES

Excellent candidates are being sought for a senior-level (ASSOCIATE or FULL PROFESSOR) research position in the area of infectious diseases. Individuals investigating host-pathogen interactions in animal diseases or animal models of human disease are particularly encouraged to apply. The position includes annual financial support for research. The successful candidate must hold a Ph.D. degree, have an exemplary record of research publication and training of graduate students, and have an established track record of acquiring competitive federal research support. Preference will be given to individuals whose research interests complement other areas of current research in the College. Additional information on faculty and research activities in the College can be found in the College's Annual Research Report which can be accessed at our website: <http://www.cvm.okstate.edu>.

Applications should include a curriculum vitae, a statement of research plans, and the names, addresses, and telephone numbers of three to five individuals willing to supply letters of reference, and should be sent by April 30, 1998, to: **Chair, Endowed Chair Search Committee, Office of Veterinary Research, Room 306 Veterinary Medicine Building, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74074-2014.** Women and minorities are encouraged to apply. Oklahoma State University is an Affirmative Action/Equal Opportunity Employer.

The VA Palo Alto Healthcare System (VAPAHCS) and Stanford University School of Medicine are seeking a **DIRECTOR** for the Palo Alto Geriatric Research, Education, and Clinical Center (GRECC), a large multidisciplinary program for investigation, training, and patient care of elderly veterans. The Directorship will carry an academic appointment at Stanford University at the Associate Professor or Professor level. The Director should be capable of leading new initiatives to develop the broad range of bench, clinical, and health services research in geriatrics and gerontology. The Director will also develop clinical programs that support both the academic and patient care missions of the VAPAHCS and Stanford. Proven experience in leading an investigational program of basic biomedical, clinical, or health service is essential. Candidates must have an M.D. or M.D.-Ph.D. and be Board-certified to apply. To be considered for this position, please send a letter describing your interests, your curriculum vitae, and the names and addresses of three references to:

Alan M. Garber, M.D., Ph.D.
Chair, GRECC Director Search Committee
Stanford University School of Medicine
30 Alta Road
Stanford, CA 94305
FAX: 650-328-4163

The VAPAHCS and Stanford are committed to increasing the representation of women and minority groups and particularly encourages applications from such candidates.

FACULTY POSITION IN ANATOMY

The Basic Science Division of a growing professional college is soliciting applications to fill a new position in the Department of Anatomy. This full-time teaching position begins September 1 and requires experience in gross anatomy and embryology. Additional experience in histology and neuroanatomy is also useful. Qualified applicants must have teaching experience, communicate effectively in English, and possess a doctorate in anatomy or a related discipline. Qualified individuals should submit résumés including three references to: **The Director of Basic Sciences, Cleveland Chiropractic College, 6401 Rockhill Road, Kansas City, MO 64131.** Equal Opportunity Employer.

SCIENTIFIC ADVISOR

Midtown Manhattan patent law firm is looking for highly qualified Ph.D. Scientists interested in second career opportunities in intellectual property law. Candidates should have strong chemical background, preferably synthetic, organic, or protein chemistry. Demonstrated technical writing skills is a plus. We offer competitive salary, full benefit package, and opportunities for law school tuition reimbursement. Please send résumé to:

Box 80, SCIENCE
1200 New York Avenue
Washington, DC 20005

POSITIONS OPEN

ATCC

RESEARCH SCIENTIST PROTISTOLOGY

The American Type Culture Collection (ATCC), serving as one of the world's largest and most diverse repositories of biological materials, is expanding its commitment to new and reemerging diseases by seeking a highly qualified Ph.D. with skills in molecular parasitology of protozoan parasites. We are seeking an individual with working experience in the most current techniques in molecular biology and the capacity to apply the latest scientific advances in authenticating and preserving of biomaterials and expanding the scientific application of unique resources of the ATCC to protozoology. ATCC will relocate to Prince William County, Virginia, in March of 1998 and will work in partnership with George Mason University at its new Prince William campus in developing a new research and development facility dedicated to microbial and eukaryotic genomics and diversity, bioinformatics, and computational biology. Candidate must have a proven track record in project management and external research funding. The ATCC offers a competitive salary and comprehensive benefits package including relocation assistance.

Interested candidates should mail letter of interest and résumé, including salary history, to:

(prior to March 20, 1998)
American Type Culture Collection
Attn: HR/RSP
12301 Parklawn Drive
Rockville, MD 20852
(after March 20, 1998)
American Type Culture Collection
Attn: HR/RSP
10801 University Boulevard
Manassas, VA 20110
Website: www.atcc.org

Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

The Wellman Laboratories of Photomedicine is seeking an **EXECUTIVE DIRECTOR** for an approximately 100-person laboratory at the Massachusetts General Hospital focused on investigating the interaction of UV-visible and infrared radiation with tissue. The ideal candidate would have a background in biomedical research and/or administration, preferably with an M.D. and/or Ph.D. degree. The candidate would work closely with the senior faculty and with the Director to facilitate research in the laboratories and will be responsible for coordinating submission and aiding in the preparation of grant proposals to current funding sources as well as actively seeking funding for support of core facilities. Other responsibilities include facilitating and implementing decisions regarding research directions, hiring faculty, distribution of core resources, and the general functioning of the laboratories.

Please respond to: **John A. Parrish, M.D., Wellman Laboratories of Photomedicine, Massachusetts General Hospital—WEL 224, Fruit Street, Boston, MA 02114.**

We are an Equal Opportunity Employer committed to work force diversity. Equal Opportunity Employer/Affirmative Action.

A **TENURE-TRACK** position is available in the Biological Sciences Department at Plattsburgh State University of New York.

GENETICIST. Ph.D. with a broad background in genetics and biology is required. The successful candidate will teach a basic course in general genetics and a general biology course on a rotating basis. Opportunities exist for developing upper-level courses in area of expertise. The development of a research program that actively involves undergraduates is expected. The candidate must be committed to excellence in teaching at an undergraduate liberal arts college with an understanding of, and sensitivity to, minority and gender concerns. Please send cover letter, résumé, a statement of teaching philosophy, summary of potential research, three recommendation letters, and college transcripts to: **Chair, Search Committee (PJ# 2140-SCIENCE), c/o Personnel, Plattsburgh State, 101 Broad Street, Plattsburgh, NY 12901-2681.** Review of applications begins March 16, 1998, and continues until position is filled. *Equal Employment Opportunity/Affirmative Action. Underrepresented minority scientists are especially encouraged to apply.*

POSITIONS OPEN

RESEARCH GENETICIST U.S. DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

ARS is seeking a permanent, full-time Research Geneticist, GS-11/12, in the Western Regional Research Center, Albany, California. Salary is commensurate with experience: GS-11 \$41,024 to \$53,328 and GS-12: \$49,167 to \$63,922 per annum, plus benefits. The incumbent will develop transgene constructs to reduce levels of undesirable steroidal glycoalkaloids (SGAs) in potato tubers. These genes will be introduced into potato by *Agrobacterium*-mediated transformation and the resulting transgenic plants characterized for transgene biosynthesis. In addition to basic education requirements, applicants must demonstrate knowledge of plant molecular biology and biochemistry relative to isolation of specific plant genes and their use in the construction of transgenes; knowledge of *Agrobacterium*-mediated transformation and binary vector systems for generation of transgenic potato plants; skill in characterization of transgene expression in plants at the level of transcription, translation, and phenotype; and skill in modern recombinant DNA techniques including PCR and RT-PCR-based cloning protocols and expression of proteins in heterologous systems.

A Ph.D. in plant molecular biology or related field is desirable. *Must be a U.S. citizen.* For information about the research program, contact: **William R. Belknap, Telephone: 510-559-6072; e-mail: wrb@pw.usda.gov.** To apply, applicants must Telephone: 301-344-4638 to request a copy of ARS-D8B-040 in order to properly file complete application. Applications must be postmarked by April 20, 1998.

USDA/ARS is an Equal Opportunity Employer.

DIRECTOR, CENTER OF BIOMOLECULAR STRUCTURE AND ORGANIZATION University of Maryland, College Park

The University of Maryland is establishing, within the College of Life Sciences, a Center of Biomolecular Structure and Organization. This research center is designed to bring together Investigators from the biological and chemical sciences to investigate the organization of biologically important complexes and their functional domains within cells. The Center will share faculty appointments with academic departments and enhance focused research efforts through graduate and Postdoctoral Fellowships, Assistantships, and facility support. The Director will set the overall direction of the Center, direct new initiatives, participate in faculty recruitment, and provide leadership for an active group of faculty in Life Sciences, with interests ranging from structure, function, and assembly of macromolecules to involvement of membrane organization.

Individuals with an internationally recognized, innovative research program in molecular structure and organization are being sought. Appointment of the Director is expected to be at the Senior level, with tenure in an appropriate department within the College of Life Sciences.

For best consideration, nominations and completed applications should be received by April 15, 1998. Applications should be sent to: **Center of Biomolecular Structure and Organization Search Committee, Room 1118 Symons Hall, University of Maryland, College Park, MD 20742-5815.**

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

INSTRUCTOR POSITION. Full-time, 12-month teaching position at the Instructor level. Primarily responsible for directing undergraduate labs in molecular biology, biochemistry, systems physiology, and histology. May include lecture assignments. Minimal qualifications: Ph.D. preferred (M.S. with teaching experience considered) with broad background in basic medical sciences and commitment to undergraduate teaching. Include any teaching experience in curriculum vitae. Closing date is April 1. Starting date August 1, 1998, or earlier. Please send curriculum vitae and names of three references to: **Search Committee, Department of Biomedical Sciences, UCOM 6000, University of South Alabama, Mobile, AL 36688. E-mail: sitaya@usmail.usouthal.edu; website: <http://www.usouthal.edu/usa/allied/biomedic.htm>.** *The University of South Alabama is an Affirmative Action/Equal Employment Opportunity/Minorities/Females/Disabled Employer.*

Cancer Epidemiologist — Utah Cancer Registry

The University of Utah and the Huntsman Cancer Institute invite applications for the deputy director of the Utah Cancer Registry. The Utah Cancer Registry plays a major role in facilitating cancer research activities of the University of Utah and Huntsman Cancer Institute members and other cancer researchers in the Intermountain area. The Utah Cancer Registry is one of the oldest cancer registries in the United States and has been part of the Surveillance, Epidemiology, and End Result (SEER) Program, sponsored by the National Cancer Institute, since 1973. The deputy director of the Utah Cancer Registry will assume day-to-day programmatic and research responsibilities in the cancer registry, and will provide leadership in developing and coordinating registry policies and procedures. The deputy director will report to the director of the registry, Joseph V. Simone, M.D., and will work closely with the administrative manager, Ms. Rosemary Dibble.

Candidates should have an M.D. with training in epidemiology, or a doctoral degree in epidemiology or related scientific discipline, and must qualify for a faculty appointment at the University of Utah. The successful candidate must have a proven record of excellence in cancer research and management for research projects as demonstrated by cancer-related publications. We invite applications from individuals who understand issues related to gathering complex medical data and who are able to communicate effectively with a wide variety of people within the scientific, medical, and lay communities.



To apply, send a cover letter, a current CV, and references we may contact by June 30, 1998.

For additional information:
hci.recruitment@hci.utah.edu

Send applications to:
Joseph Simone, M.D.
Utah Cancer Registry
15 N. 2030 E., Suite 4130
Salt Lake City, Utah 84112

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

Want to get your foot in the door?

Then let SCIENCE open some doors for you by attending the **SCIENCE Career Fairs**. SCIENCE Career Fairs offer the perfect opportunity for scientific professionals to meet in person with representatives from top biotechnology and pharmaceutical companies, universities, governmental agencies, and institutions.

UPCOMING 1998 SCIENCE CAREER FAIR

Palo Alto, CA on the Stanford Campus

Tresidder Memorial Union

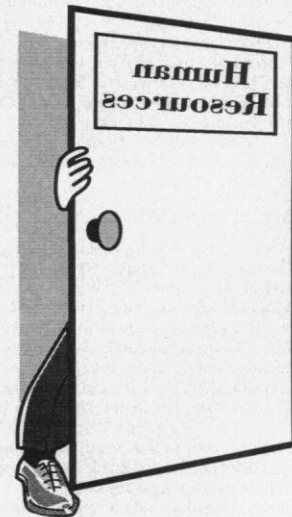
20 March.: 11 am – 4 pm

21 March.: 11 am – 3 pm

To pre-register online go to SCIENCE Online (www.sciencemag.org) and choose SCIENCE Professional Network from the menu.

Remember to bring multiple copies of your CV or résumé with you to the Career Fair; a copy will be necessary to gain admission to the hall. Admission is FREE.

Do not contact Stanford directly. They are not responsible for organizing this event.



SCIENCE CAREER FAIRS

For more information call (202) 326-7018
SCIENCE Career Fair Information Online:
www.sciencemag.org (Choose SCIENCE Professional Network from the menu)

POSITIONS OPEN

RESEARCH POSITIONS

The immunohematology/immunochemistry research program of the Blood Research Institute seeks qualified individuals (M.D. and/or Ph.D.) with research interests in immunochemistry or vascular biology plus experience/expertise in protein chemistry, membrane biophysics, or cell and molecular biology. Current research focus is the regulation of plasma membrane, phospholipid asymmetry, and the interaction of complement and coagulation systems at cell surfaces. Candidates for Postdoctoral Fellowship or staff appointments will be considered. Send résumé, brief description of research interests, and references to:

Peter J. Simms, M.D., Ph.D.
The Blood Research Institute
The Blood Center
P.O. Box 2178
Milwaukee, WI 53202-2178
FAX: 414-937-6284
E-mail: peter_s@bcsew.edu

MISSISSIPPI-ALABAMA SEA GRANT DIRECTOR

The Board of Directors of the Mississippi-Alabama Sea Grant Consortium (MASGC) is seeking applications and nominations for the position of Director. The MASGC is a two-state program of marine and coastal research, education, and extension-advisory services, headquarters in Ocean Springs, Mississippi. Successful candidate will receive program guidance, policy, and direction from and report to eight-member Board of Directors. Responsibilities: directing a small staff; management of a \$2.0 million budget; coordination with related state and federal agencies; interaction with regional user groups; liaison with MASGC member institutions, and the National Sea Grant College Program Office; networking with other Sea Grant directors; other responsibilities as assigned by the MASGC Board. Qualifications: distinguished record of scholarship in a marine-related discipline; earned doctorate or appropriate equivalent; demonstrated ability to secure and leverage fiscal resources; ability to communicate with diverse audiences; successful administrative, supervisory experience; knowledge of the sponsored program process; familiarity with Sea Grant or Land Grant mission. Competitive salary, benefits. Full-time position expected to be filled by September 1, 1998. For full consideration submit letter of application, curriculum vitae, names of three references by April 15, 1998, to: **Dr. D. Jay Grimes, Director, Institute of Marine Sciences, and Chair, Mississippi-Alabama Sea Grant Consortium Search Committee, P.O. Box 7000, Ocean Springs, MS 39566-7000. E-mail: jay.grimes@usm.edu.** Affirmative Action/Equal Opportunity Employer/ Americans with Disability Act Institution.

MANAGER, BIOLOGICAL DEFENSE

A leading research and development company headquartered in a major southeastern city serves the biopharma industry and a number of government agencies from three major business units, one of them its Environment and Energy Division. That division will soon build a biological defense business, an enterprise devoted to the creation of defensive and countermeasures to biological attack. Those products will be sold to federal government agencies such as the Department of Defense, FBI, and CIA.

Key to the development of this effort will be the Manager, Biological Defense. He or she will recruit, train, and direct a staff of four to six people and draw upon a matrix of others from the company's Life Sciences Division.

The successful candidate will have experience in the growth of infectious diseases and countermeasures to those diseases, as well as relationships with prospective clients within agencies of the federal government. An advanced degree, preferably in microbiology, will be an advantage.

Competitive base salary, bonus opportunity of 20 percent, and relocation benefits are available along with health and welfare, and equity plans. Résumés and inquiries should be directed to:

James W. Cameron
Cameron Consulting Group
1112 Austin Avenue
Pacific Grove, CA 93950
Telephone: 408-646-8415
FAX: 408-646-8626

POSITIONS OPEN

FERRING RESEARCH INSTITUTE

Ferring Research Institute Inc., San Diego Division, is a research organization in the field of therapeutic peptide products. Our newly established biochemistry group is currently under expansion and has the following opening for a motivated individual to join our research team.

RESEARCH SCIENTIST

A Ph.D. with a minimum three years of postdoctoral experience in molecular biology/biochemistry is sought to participate in drug discovery research in the area of urology, gynecology, and reproductive endocrinology. Advanced knowledge in receptor pharmacology and high-throughput screening is required. Expertise in ELISA and phage peptide display will be an advantage.

RESEARCH ASSOCIATE

A M.S./B.S. scientist with a minimum two years of laboratory experience with a strong background in molecular biology, biochemistry, mammalian cell culture, and receptor signaling is required. Previous experience in molecular target-based drug discovery is also desirable.

Please send or FAX curriculum vitae and names of three references to: **Human Resource Manager, Ferring Research Institute Inc., General Atomics Court, 2-434, San Diego, CA 92121. FAX: 619-455-3190.**

DIRECTOR BIOLOGICAL RESOURCES PROGRAM WASHINGTON, D.C.

World Resources Institute, International nonprofit organization, seeks a Director for its Biological Resources Program that has projects on sustainable forestry practices, coastal and marine conservation, agrobiodiversity, and ecosystem management. The Director will supervise nine staff members; manage a \$1.7 million budget, and help obtain funding for the work. The individual selected will have a broad understanding of policy issues related to development and the environment, detailed knowledge and experience working to promote sound biological resource management, and strategic vision regarding the opportunities for policy and institutional change to ensure conservation and sustainable use of biological resources. Requires excellent written and oral communication skills; significant management experience; and an advanced degree and/or 10 or more years of experience. Fluency in one or more languages in addition to English is highly desired. Salary commensurate with experience; excellent benefits. Send résumé to: **Personnel, WRI, 1709 New York Avenue, Washington, DC 20006. FAX: 202-638-0036. No telephone calls.**

YALE UNIVERSITY DEPARTMENT OF CHEMISTRY

The Department of Chemistry of Yale University solicits applications for a tenured position in physical chemistry in the subdiscipline of chemical dynamics and molecular spectroscopy. An outstanding teacher-scholar's research interests should complement those of the current tenured faculty. An internal candidate is under consideration for the position which is expected to be filled by the academic year 1998-99.

Applicants should submit curriculum vitae and a list of publications to: **Donald M. Crothers, Chair, Senior Physical Search Committee, Department of Chemistry, Yale University, 225 Prospect Street, New Haven, CT 06520-8107 by March 23, 1998. Yale University is an Equal Opportunity/Affirmative Action Employer.**

BIOGEOCHEMISTRY

The Ecology and Evolutionary Biology Department at Rice University seeks to fill a **HUXLEY RESEARCH INSTRUCTORSHIP**. This is a two-year appointment for a recent Ph.D. for research and teaching. Preference will be given to candidates with research interests in mechanisms of gas transport in wetland plants, carbon cycling, plant-soil microbial interactions, or global change. The annual teaching commitment is a one-semester upper-level course in the department's ecology offerings utilizing the specific area of the candidate's expertise. Applications, including curriculum vitae, a summary of research and teaching interests, and three letters of reference are to be sent to: **Dr. R. L. Sass, Ecology and Evolutionary Biology Department, Rice University, P.O. Box 1892, Houston, TX 77251-1892 by March 30, 1998. Rice University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

RESEARCH ONCOLOGIST

The Lombardi Cancer Center, Georgetown University Medical Center invites applications for a faculty position at the level of **INSTRUCTOR** in medicine. Must be Board-certified in medical oncology with demonstrated ability in translational research. Experience with angiogenesis assays, microdialysis, and clinical trial design required. The candidate is expected to develop a translational research program with emphasis on angiogenesis inhibitors. The position is 40 percent laboratory and 60 percent clinical research. Submit curriculum vitae and description of research goals to: **Michael Hawkins, M.D., Director, Developmental Therapeutics, Lombardi Cancer Center, Podium-B, 3800 Reservoir Road N.W., Washington, DC 20007.**

TENURE-TRACK/DNA REPAIR

A tenure-track position is available in the Laboratory of Molecular Genetics (LMG), National Institute on Aging. The individual is expected to develop an independent research program in the area of DNA repair mechanisms, particularly as they relate to transcription and/or replication. The individual should be interested in the molecular mechanisms of aging. Current research in the LMG is focused on oxidative DNA damage processing, DNA repair and transcription in human premature aging syndromes, and mitochondrial DNA damage processing. The candidate should have knowledge and experience in the area of DNA repair, and should have a strong record of scientific accomplishment as evidenced by quality peer-reviewed publications. Applicants should send a curriculum vitae, three letters of recommendation, a two-page statement of research interests, a proposed research program, as well as select publications to: **Chair, LMG Tenure-Track Search Committee, c/o Ms. Karen Maben, Personnel Office, National Institute on Aging, NIH, Box 26, 5600 Nathan Shock Drive, Baltimore, MD 21224-6823. For further information e-mail: Dr. V. Bohr, Chief, LMG, e-mail: vbohr@nih.gov.**

ASSISTANT IN PHYSIOLOGY

Assistant in physiology for Department of Physiology, University of Florida College of Medicine. Non-tenure-track faculty position. Duties include collaborating in research programs addressing the modulatory effects of angiotensin II on K^+ and Ca^{2+} currents and channels in neurons. Expertise in patch clamp electrophysiological recordings (whole cell and style channel) and RT-PCR of K^+ / Ca^{2+} channels in single neurons is essential. A Ph.D. or equivalent degree and three to four years of relevant postdoctoral experience are required. Salary is negotiable based on qualifications and experience. Application/recruiting deadline is April 15, 1998. Anticipated start date is January 1, 1999. Applicants should contact: **Colin Summers, Ph.D., Department of Physiology, University of Florida, P.O. Box 100274, Gainesville, FL 32610. Equal Employment Opportunity/Affirmative Action Employer.**

NEUROPHYSIOLOGIST BIOMEDICAL ENGINEER

A prestigious private institute, internationally recognized as innovators in neural prostheses, seeks a Ph.D. with training in electrical stimulation/recording in the central nervous system to participate in the development of neural prosthetic devices for spinal cord injury patients. The applicant must have experience performing survival neurosurgical procedures in either cats, dogs, or primates. Contact: **William F. Agnew, Ph.D., Huntington Medical Research Institutes, Neurological Research Laboratories, 734 Fairmount Avenue, Pasadena, CA 91105. Telephone: 626-397-5442; FAX: 626-397-3751. Huntington Medical Research Institutes is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT RESEARCH PROFESSOR position available in the Division of Infectious Disease for a D.V.M., D.V.M.-Ph.D., or Ph.D. who wishes to pursue a research/academic career. Candidates must have a strong background in microbial pathogenesis and the host response to conduct research in a newly funded, five-year NIH project on enteric protozoa in AIDS. Send curriculum vitae and three references to: **Saul Tzipori, Tufts University School of Veterinary Medicine, Grafton, MA 01536. FAX: 508-839-7977; e-mail: stzipori@infonet.tufts.edu.**

Ph. D. in Biomechanics

The Department of Physical Medicine and Rehabilitation of the Albert Einstein College of Medicine is seeking an individual with either a Ph. D. or M.D./Ph. D. in Engineering or Biomechanics. In addition, the applicant should have qualifications for a joint faculty appointment in Physiology and Biophysics.

The candidate must be able to develop research programs. A two year start-up package is offered.

Curriculum vitae, bibliography, a detailed statement of interests and names and telephone numbers of three references should be sent to: **Dr. Avital Fast, Chairman, Department of Rehabilitation Medicine, Albert Einstein College of Medicine/ Montefiore Medical Center, 111 E. 210th Street, Bronx, NY 10467. EOE.**

**ALBERT EINSTEIN
COLLEGE OF MEDICINE**

Toward the
advancement of medicine
...and your career



Executive Vice President and Director of Research

Blood Research Institute

The Blood Center of Southeastern Wisconsin

The Blood Research Institute, one of three component arms of the Blood Center of Southeastern Wisconsin, invites applications and nominations for Executive Vice President and Director of Research. The ideal candidate will hold an M.D. or Ph.D. degree, or both, have a distinguished record of achievement in biomedical research, 7-10 years of progressively increasing administrative responsibilities, and demonstrated leadership capabilities. As Director of Research, this individual will be expected to provide leadership to move more than 15 Principal Investigators working in the fields of Vascular Biology, Immunogenetics, Transplantation Immunology, Immunohematology, and Transfusion Medicine, and will also be responsible for complementing existing areas of research through the recruitment of additional faculty. Vision, initiative, and the drive to continue the development of our international reputation will distinguish the successful candidate. The Director of Research will also be responsible for facilitating partnerships with the scientific and clinical programs of the Medical College of Wisconsin, integrating basic research with ongoing development efforts within The Blood Center's Diagnostic Laboratories, and communicating effectively with The Blood Center's Board of Directors, its Research Foundation, and the larger community.

The Blood Research Institute, located adjacent to the Medical College of Wisconsin on the campus of the Milwaukee Regional Medical Center, is an internationally recognized leader in blood-related research, and currently receives in excess of four million NIH grant dollars/year. Additional research funds are provided by a substantial dedicated research endowment, and by Genetic Testing Institute, a for-profit subsidiary controlled by the Blood Center Research Foundation. The Blood Center is one of only a few Transfusion Medicine Centers worldwide with a long-term, substantial commitment to high-quality research. Qualified individuals who want to become part of this preeminent institution, and are willing to lead its research effort into the next century, are invited to send their CV, along with a cover letter detailing their scientific, administrative, and leadership qualifications to:



Global In Reach, Local In Care

Director of Research Search Committee

**The Blood Center of Southeastern Wisconsin
638 N. 18th Street
Milwaukee, WI 53233-2121**

Deadline for receipt of applications is April 1st, 1998.

The Blood Center of Southeastern Wisconsin is an Equal Opportunity /Affirmative Action Employer. Minorities and Women are encouraged to apply.

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- Post your résumé online if you are attending one or more of the SCIENCE-sponsored Career Fairs.
- Get your credentials in front of the top recruiters from major biotechnology and pharmaceutical organizations who are exhibiting at our fairs.
- Employers will find your résumé FAST, using specific search criteria, and match you to their current job openings.
- Employers exhibiting at the Career Fairs may contact you before the event to arrange a personal meeting at our Career Fair. Employers are expecting to see you at the fair, so only post your résumé if you plan on attending.

POSITIONS OPEN

ALZA Scientific Products, a division of ALZA Corporation, is seeking **COMMERCIAL PARTNERS** to grow our ALZET® Osmotic Pump business.

ALZET Osmotic Pumps are miniature, implantable infusion pumps for use in laboratory animal research. These pumps can be implanted subcutaneously, intraperitoneally, or with a catheter for targeted delivery to specific tissues or organs. The ALZET Osmotic Pump offers a unique way for researchers to explore the effects of rate- and duration-controlled delivery of a wide range of agents. Over 5,200 scientific articles attest to the successful use of ALZET Osmotic Pumps in the research setting.

We are currently looking for distributors in all areas except the United States, Canada, western and northern Europe, Japan, and Australia. If the ALZET Osmotic Pump fits into your product portfolio and you have Research Scientists as your customer base, please contact us by FAX: 650-962-2488 or by mail at the following address: ALZA Corporation, ALZA Scientific Products, Attn: John Klein, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0802.

IS THIS YOUR ONCE IN A LIFETIME OPPORTUNITY

Small, established Los Angeles biotech company seeks an individual with patented (or patentable), market-ready product(s) to be our **CEO and RESEARCH DIRECTOR**. We have the lab, people, and funds (but not all the money in the world). We are not looking for an employee as much as we are looking for a partner. Don't apply if you are only looking for a research job. This is a heavyweight, unique opportunity for someone who wants major equity, the chance to become rich, and to live in sunny southern California. Important: Please FAX a cover letter, including as much information as you are comfortable in sharing about your product and its potential. Include an estimate of the amount of money and time necessary to bring it to market. Additionally, please include your curriculum vitae. All replies will be held in strictest confidence. Please FAX to: Mr. Cole, FAX: 310-657-4222.

POSTDOCTORAL RESEARCH ASSOCIATE CATALYTIC MECHANISM

Position available immediately to study catalytic mechanism of an RNA methyltransferase. NMR experience preferred. Send curriculum vitae and names of three references to: Dr. Paul Gershon, c/o Human Resources Office, Texas A&M University—IBT, 2121 West Holcombe Boulevard, Houston, TX 77030. E-mail: pgershon@ibt03.tamu.edu; website: <http://www-ibt.tamu.edu/gershon/pg.htm>. Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity.

DEPARTMENT HEAD of Renewable Resources,* available September 1, 1998, for a newly formed department consisting of rangeland ecology, entomology, soil science, and watershed management. Must have a doctoral degree, leadership credentials, and demonstrated accomplishments in teaching, research, or outreach. Submit letter of interest, curriculum vitae, vision of the role of a Renewable Resources Department, and five references by May 1, 1998, to: George Vance, Renewable Resources, University of Wyoming, Laramie, WY 82071-3354. E-mail: gfv@uwyo.edu. UW is an Equal Opportunity Employer. *Department name pending UW Trustee approval.

CYTOGENETIC TECHNOLOGISTS

Genzyme Genetics in Santa Fe, New Mexico seeks experienced Cytogenetic Technologists to help with volume growth. Qualified candidates will be NCA-certified or eligible and have two or more years of experience. Genzyme Genetics offers competitive compensation and a comprehensive benefits program. Send your confidential résumé and salary history to: Diane Marbourg, 2000 Vivigen Way, Santa Fe, NM 87505. FAX: 505-438-2277. Equal Opportunity Employer.

PATENT ATTORNEY: CHEMISTRY

Midtown Manhattan intellectual property law firm is looking for a Patent Attorney with a chemistry background and two to three years of patent prosecution experience. An advanced scientific degree in chemistry is a plus. We offer competitive salary and full benefit package. Please send résumé to:

Box 81, SCIENCE
1200 New York Avenue
Washington, DC 20005

POSITIONS OPEN

POSTDOCTORAL POSITION. Required Ph.D. or M.D.; three years of postgraduate experience; proof of legal authority to work indefinitely in United States; previous work with bacterial expression vectors, expression of hammerhead ribozymes, and HIV-1 genes. \$22,000 per year. Send curriculum vitae to: Tina Davis, PHRI, Room 1202, 455 First Avenue, New York, NY 10016.

NATIONAL INSTITUTES OF HEALTH NATIONAL HUMAN GENOME RESEARCH INSTITUTE

One **POSTDOCTORAL RESEARCH** position is immediately available to use animal models to study leucemogenesis and hematopoiesis. Both zebrafish and mice will be used in our studies. Excellent state-of-the-art facilities are available for the studies. Our Institute has a scientifically stimulating environment, particularly strong in the studies of human genetic diseases and genome research. More detailed information about our research can be obtained from our website: http://www.nhgri.nih.gov/Intramural_research/People/liu.html.

Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Please send a curriculum vitae, statement of research interests, and the names of three references by March 31, 1998, to: Dr. Pu Paul Liu, Genetics and Molecular Biology Branch, National Human Genome Research Institute, 49 Convent Drive, Room 3A18, Bethesda, MD 20892. Telephone: 301-402-2529; FAX: 301-402-4929; e-mail: pliu@nhgri.nih.gov. The NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN NEUROIMAGING YALE UNIVERSITY School of Medicine

Yale University Postdoctoral Fellowships are currently available within an NINDS-funded neuroimaging sciences training program. Applicants may have M.D. or Ph.D. degree with relevant training experience (e.g., M.D. with neurology or psychiatry residency; Ph.D. in neuroscience, computer science, biomedical engineering, or radiochemistry). The program provides rigorous training in methods and research applications of nuclear magnetic resonance (fMRI and MRS) and radiotracer (PET and SPECT) techniques. Individual mentors derive from faculty in six collaborating departments. In addition to an individual research project, Fellows are encouraged to collaborate with other faculty in multimodality imaging studies. Applicants must be U.S. citizens or permanent resident aliens. Send curriculum vitae to: Robert B. Innis, M.D., Ph.D., Director, Neuroimaging Sciences Training Program, Yale University and VAMC/116A2, 950 Campbell Avenue, West Haven, CT 06516. FAX: 203-937-3897. Equal Opportunity Employer.

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104

PREFERRED PROFESSIONAL RECRUITERS

We are a leading executive search firm specializing in the healthcare industry. We have positions open in discovery research, drug development, biostatistics, data management, statistical programming, preclinical/clinical research, medical affairs, project management, and QA/RA. Submit your résumé to: Preferred Professional Recruiters, 4200 Green Cliffs Road, Austin, TX 78746. FAX: 512-327-1774; e-mail: search@pprecruiters.com; website: <http://www.pprecruiters.com>.

POSITIONS OPEN

POSTDOCTORAL POSITIONS available in the Divisions of Immunology/Allergy, and Rheumatology in the Departments of Medicine and Pediatrics at the University of Rochester, Rochester, New York. Successful applicants will have expertise in molecular biology. E-mail a curriculum vitae, citizenship, statement of research experience and interests, and names/addresses of three references to one of the faculty listed below.

A. Bottaro, B cell activation/Ig class switching. E-mail: andrea_bottaro@urmc.rochester.edu.

R. Insel, germinal center B lymphocyte biology. E-mail: rinsel@cc.urmc.rochester.edu.

R. J. Looney, vaccines and immunosuppression, cytomegalovirus. E-mail: john_looney@urmc.rochester.edu.

M. Nahm, immunobiology of vaccines. E-mail: mnahm@cc.urmc.rochester.edu.

I. Sanz, autoimmunity, genetics of human (auto-)antibodies. E-mail: ignacio_sanz@urmc.rochester.edu.

E. Schwarz, cytokine-mediated inflammation. E-mail: edward_schwarz@urmc.rochester.edu.

F. Young, precursor B cell ontogeny, leukemogenesis. E-mail: fay_young@urmc.rochester.edu.

The University of Rochester is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSISTANT

Worcester Polytechnic Institute (WPI) has a Postdoctoral Research Assistant position available to study the structure of the Na,K-ATPase. Work will focus on determining the three-dimensional organization of transmembrane segments participating in the cation path and binding sites. These studies will use molecular biology (site-directed mutagenesis, eukaryotic and yeast expression systems) together with protein chemistry and membrane biochemistry techniques. Recent Ph.D. with experience in molecular biology, protein chemistry, enzyme kinetics, or ion transport is preferred. Competitive compensation and a benefits package included.

WPI offers a smoke-free environment. Send curriculum vitae, names and telephone numbers and e-mail addresses of three references to: Dr. Jose Arguello, Worcester Polytechnic Institute, Department of Chemistry and Biochemistry, 100 Institute Road, Worcester, MA 01609-2280. Telephone: 508-831-5326; e-mail: arguello@wpi.edu.

To enrich education through diversity, WPI is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW/SCIENTIST MOLECULAR BIOLOGY

Kirkegaard & Perry Laboratories (KPL), a biotechnology reagent supplier in Gaithersburg, Maryland, has an opening for a Postdoctoral Fellow or Scientist in the Research and Development Department. This position will help design and perform experiments for development and expansion of the molecular biology product line. Requirements: a Ph.D. in biochemistry and/or molecular biology; thorough understanding of all major molecular biology techniques; proven productivity in academia and/or industry. Scientific lab managerial experience is highly desirable with ability to supervise others in bringing new ideas into development and modifying existing products in a team setting. Qualified candidates should respond with a cover letter including salary requirements and résumé to: Kirkegaard & Perry Laboratories, Human Resources, Department MB, 2 Cessna Court, Gaithersburg, MD 20879. E-mail: hr@kpl.com (MSWord format); FAX: 301-948-5815. KPL supports work force diversity, Equal Employment Opportunity/Affirmative Action programs.

POSTDOCTORAL RESEARCH SPECIALIST II POSITION

Postdoctoral Research Specialist II position available to study blood-brain barrier pharmacology, using a combination of *in vivo*, *ex vivo*, and *in vitro* approaches. Experience with *in vivo* and/or cell culture models is preferred. A Ph.D. in pharmacetics, pharmacology, or a related discipline is required. To apply contact: Kathy Leitch, Department of Human Resources, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-2818; FAX: 803-792-2263. When applying, reference position number 128849. For any additional information, please contact: Pam Golden, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy, Medical University of South Carolina, Charleston, SC 29425-2303. FAX: 803-953-6615; e-mail: goldenpl@musc.edu.

Affirmative Action/Equal Employment Opportunity.



U.S. Department of Agriculture (USDA)
Agricultural Research Service (ARS)

**RESEARCH LEADER,
PLANT GENETIC RESOURCES
GS-13/14**

The USDA, Agricultural Research Service (ARS), is seeking an accomplished and articulate research scientist to serve as Research Leader, and provide leadership and coordination at the ARS Plant Genetic Resources Unit, Geneva, NY. The mission of the Unit is to acquire, evaluate, manage, and distribute genetic resources of crop plants, and to improve the effectiveness and efficiency of plant genetic resource management. The incumbent will have the responsibility to plan, coordinate, and participate in research programs involving 5 senior ARS scientists, and the opportunity to collaborate in germplasm and molecular breeding studies with Cornell University. The successful candidate must have a record of accomplishment in genetic resource management, demonstrated supervisory and communication skills, the ability to work in a collaborative environment, and professional experience in Genetics, Agronomy, Horticulture, or related discipline. The Plant Genetic Resources Unit is a component of the National Plant Germplasm System, and includes National Repositories for apple, grape, and tart cherry, as well as other major crop collections. It is housed in modern, well-equipped laboratory, greenhouse, and field facilities. Competitive salary and benefits package. Ph.D. degree desirable. *U.S. citizenship required.* For further information on research programs contact Wilda H. Martinez at 215-233-6593. For application information and forms contact Tiffany Fisk at (315) 787-2307 or <http://www.ars.usda.gov>. Applications must be marked ARS-X8N-8083 and be postmarked by March 30, 1998.

*USDA/ARS is an Equal Opportunity Employer.
Women and minorities are encouraged to apply.*



**SES VACANCY ANNOUNCEMENT
HQ-Y-98-06**

POSITION: Director, Science Division, Office of Earth Science (OES)
GRADE: ES-1301
SALARY RANGE: \$106,412-\$125,900
(This position is subject to random drug testing)
LOCATION: Office of Earth Science, NASA Headquarters, Washington, D.C.

AREA OF CONSIDERATION: All Qualified Applicants

OPEN: February 17, 1998

CLOSE: March 31, 1998

The Director is responsible for the overall direction, guidance, focus, and management of all science research associated with the OES Programs. The incumbent is responsible for defining a scientific research plan to achieve OES strategic goals; managing scientific research programs; defining objectives and prioritizing requirements for flight and ground programs; directing the development and execution of all science research efforts; assessing the effectiveness of all OES programs in meeting its strategic goals; responsible for the fiscal and technical management of all programs within the Science Divisions.

For more information contact: **Ann Delo**
(202) 358-0750

Upcoming EUROPEAN Opportunities

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FOCUS ON CAREERS:
GERMANY

Booking Deadline:
17 March

FOR INFORMATION CONTACT
DEBBIE CUMMINGS
Tel: +44 (0) 1223 302067
Fax: +44 (0) 1223 576208
E-mail: european_ads@science-int.co.uk



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European meetings.

3 April 1998 Issue
ANALYTICA
21-24 April, Munich, Germany
Booking Deadline: 17 March

24 April 1998 Issue
**EUROPEAN SOCIETY
OF HUMAN GENETICS**
10-13 May, Lisbon, Portugal
Booking Deadline: 7 April

POSITIONS OPEN

POSTDOCTORAL POSITIONS PROTEIN/DNA INTERACTIONS AND CANCER MUTATION DETECTION

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

Professor Francis Barany
Programs of Biochemistry, Structural Biology,
and Molecular Biology
Box 62, Cornell University Medical Center
1300 York Avenue
New York, NY 10021
FAX: 212-746-8587

Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

The Cardiovascular Institute at Columbia University seeks applicants with an M.D. or Ph.D. and previous postdoctoral experience in NMR imaging and spectroscopy to become involved in studies on heart, brain, and various tumors. Expertise with NMR studies of *in vitro* systems would be desirable but not indispensable. Our current interests are in pursuing multinuclear imaging and spectroscopy with proton and sodium. This is primarily a research position with no clinical responsibilities. Please send a curriculum vitae and the names of two references to: **Dr. Jose Katz, Division of Cardiology, College of Physicians and Surgeons, Columbia University Box 93, 630 West 168th Street, New York, NY 10032. E-mail: jk32@columbia.edu. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

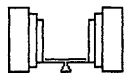
POSTDOCTORAL POSITION available immediately at Brigham & Women's Hospital/Harvard Medical School to study the regulation of integrin adhesiveness in cultured cells. Experience in molecular biology is required, familiarity with cell adhesion assays is desired. Please send curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Lloyd B. Klickstein, Division of Rheumatology, Brigham & Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-525-1227; e-mail: lklickstein@rics.bwh.harvard.edu. Brigham & Women's Hospital is an Affirmative Action/Equal Opportunity Employer. Underrepresented minorities are especially encouraged to apply.**

POSTDOCTORAL POSITION available to study signal transduction by protein tyrosine kinases FAK and Pyk2. Current research focuses on the role of FAK and its interacting proteins in integrin-initiated signal transduction pathways in cell migration and the potential role of these two kinases in cell cycle regulation. Recent Ph.D. in cell and molecular biology or related fields are encouraged to apply. Experiences in signal transduction, growth control, and cell adhesion are desired. Please send curriculum vitae and names of three references to: **Dr. Jun-Lin Guan, C4-177 VMC, Cornell University, Ithaca, NY 14853. E-mail: jgl19@cornell.edu.**

POSTDOCTORAL RESEARCH ASSOCIATE position available to work on cellular and molecular aspects of cell surface proteoglycans in the context of vascular biology and atherosclerosis. Funded by AHA and NIH. Applicants should have a Ph.D. degree with training in cell and molecular biology. Send curriculum vitae to: **Dr. Elliot L. Chaikof, Emory University School of Medicine, 1639 Pierce Drive, 5105 WMB, Atlanta, GA 30322. FAX: 404-727-3660; e-mail: echaikof@surgeury.eushe.org. Emory University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study ion channel activity and calcium regulation in resistance artery smooth muscle and endothelial cells. A strong background in cellular physiology, vascular biology, and/or molecular biology is required. Send curriculum vitae, statement of career goals, and the names of three references to: **Dr. Joseph Brayden, University of Vermont Medical Research Facility, 55A South Park Drive, Colchester, VT 05403. E-mail: brayden@salus.med.uvm.edu. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN



The Salk Institute

A **POSTDOCTORAL POSITION** is available at The Salk Institute to study neural control of visually guided eye movements. Projects are available in three possible areas: electrophysiological studies of the neural pathways for voluntary eye movements; behavioral studies of visual attention and target selection in humans; computational models of eye movements and visual attention. Applicants must have a Ph.D. with relevant knowledge in one of the above research areas. Please send curriculum vitae, names and telephone numbers for three references, and statement of research objectives to:

Dr. Richard Krauzlis
The Salk Institute
Systems Neurobiology Laboratory
10010 North Torrey Pines Road
La Jolla, CA 92037
Website: www.salk.edu

The Salk Institute is an Equal Opportunity Employer.

MOLECULAR NEUROSCIENCE ALZHEIMER'S DISEASE POSTDOCTORAL POSITION

A Postdoctoral position is available immediately to study mechanisms of inflammation in Alzheimer's disease and transgenic mouse models of Alzheimer's disease at the level of gene expression using a combination of molecular (gene cloning) and cell biological (transfection and gene knockout) techniques. A strong background in recombinant DNA techniques is recommended. Qualified candidates should forward curriculum vitae and the names of three references to: **Giulio Maria Pasinetti, M.D., Ph.D., Department of Psychiatry, Box 1229, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. We are an Equal Opportunity Employer fostering diversity in the workplace.**

POSTDOCTORAL POSITION available immediately to study reproductive and ingestive behavior, neuroanatomy, and neuroendocrinology in the context of energy balance. Preference will be given to candidates with expertise in one or more of these areas: neuroendocrinology of reproduction, seasonal adaptation, or ingestive behavior. Investigations might involve immunocytochemistry, *in vivo* microdialysis for LHRH, radioimmunoassay of steroids and LHRH, biochemical assay of circulating and tissue metabolites or other relevant techniques.

Send curriculum vitae and names of three references to: **Jill E. Schneider, Department of Biological Sciences, Lehigh University, Bethlehem, PA 18015. E-mail: js0v@lehigh.edu; Telephone: 610-758-3629. Lehigh University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS are available immediately to study oligonucleotide-based gene targeting and gene activation (*Science* 271:802-805, 1996; *Mol. Cell. Biol.* 15:1759-1768, 1995). Applicants should have a Ph.D. with strong research experience in molecular and cell biology. Send a curriculum vitae and addresses of three references to: **Dr. Gan Wang, Department of Structural and Cellular Biology, MSB2042, University of South Alabama College of Medicine, 307 University Boulevard, Mobile, AL 36688-0002. FAX: 334-460-6771; e-mail: gwang@jaguar1.usouthal.edu.**

POSTDOCTORAL POSITION to develop variants of superoxide dismutases and carbonic anhydrases for research on their catalytic efficiency. Projects involve rapid kinetic methods, molecular modeling, and mutagenesis to elucidate catalytic mechanisms. Experience with recombinant DNA technology necessary. Send curriculum vitae and the names of three references to: **Dr. David N. Silverman, Box 100267 Health Center, University of Florida, Gainesville, FL 32610-0267. E-mail: silvrnm@nervm.nerdc.ufl.edu. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in organic chemistry or biochemistry to study chemical and metal carcinogenesis. Synthesis of carcinogen-nucleic acid adducts will be carried out, as well as the analysis of carcinogen-DNA adducts generated both *in vitro* and in tissue culture systems. Experience in tissue culture desirable. Send curriculum vitae and three letters of recommendation to: **Thomas Meehan, Department of Biopharmaceutical Sciences and Division of Toxicology, Box 0446, University of California, San Francisco, CA 94143.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS THE UNIVERSITY OF CHICAGO

Postdoctoral positions immediately available in cell and molecular biology in the Section of Pulmonary and Critical Care Medicine at the University of Chicago. Faculty research interests include: epithelial cell repair and surface glycosylation, inflammatory cell hematopoiesis and apoptosis, T-cell co-stimulation, activation and differentiation, smooth muscle remodeling and differentiation, asthma genetics, and oxygen sensing and cell signaling during hypoxia. Faculty mentors hold positions in the Departments of Medicine, Pediatrics, and Human Genetics, the Committee on Immunology, and the Committee on Comparative Medicine and Pathology. Training is supported by an NHLBI-sponsored training grant for eligible candidates. Interested applicants should send curriculum vitae, brief summary of research experience, and names of three individuals for references to: **Julian Solway, M.D., Director, Training Program in Respiratory Biology, The University of Chicago, Section of Pulmonary and Critical Care Medicine, 5841 South Maryland Avenue, MC 6076, Chicago, IL 60637. The University of Chicago is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.**

POSTDOCTORAL POSITION. Our multidisciplinary team is interested in the role of estrogen in the male reproductive tract. Our focus is on how estrogen regulates epithelial function in the efferent ductules (*Nature* 390:509-512, 1997). Candidates should be highly motivated, possess a recent Ph.D. in physiology, cell biology, or biochemistry and preferably have training in reproductive biology. Demonstrated experience in tissue culture RNA analysis is expected and use of electrophysiology is desirable. For more information go to website: <http://www.cvm.uiuc.edu/HomePages/rhess/hesspage.html> or send letter, curriculum vitae, and information (including e-mail) for three references to: **Dr. Rex Hess, University of Illinois, Veterinary Biosciences, 2001 South Lincoln, Urbana, IL 61802. Telephone: 217-333-2506; e-mail: r-hess@uiuc.edu. Applications are due: May 1, 1998. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

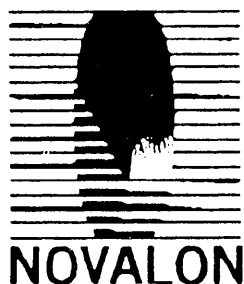
POSTDOCTORAL POSITIONS

Positions available: (1) to study developmental gene regulation in YAC transgenic mice. Molecular biology background required; yeast mutagenesis, transgenic, or ES cell experience preferred. (2) to develop gene transfer approaches for hematopoietic progenitors in *in vitro* and *in vivo* models; experience in molecular biology, immunology, or hematopoiesis required. Please send curriculum vitae and three references to: **Dr. Karin Gaensler, Box 0724, Department of Medicine, University of California, San Francisco, 3rd and Parnassus, San Francisco, CA 94143-0724. FAX: 415-566-4969; e-mail: nintim@itsa.ucsf.edu.**

POSTDOCTORAL POSITION available to study the role of a new MAP kinase in cell growth and differentiation (*J. Biol. Chem.* 271:16586, 1996; *EMBO J.* 16:7054, 1997). Experience in molecular biology and cellular biology is preferred but not required. Send curriculum vitae to: **J. D. Lee, Ph.D., Department of Immunology, IMM-12, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-784-8239; e-mail: jdlee@scripps.edu. The Scripps Research Institute is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to study human B-globin gene regulation using YAC transgenic mice. Experience in molecular biology techniques is essential. Send curriculum vitae and names of three references to: **Kenneth R. Peterson, Ph.D., Division of Medical Genetics, Box 357720, Department of Medicine, University of Washington, Seattle, WA 98195. FAX: 206-543-3050; e-mail: krpete@u.washington.edu. The University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to study gene expression pathways using high-density microarray technology. Studies will concentrate on comparing normal and malignant tissues as well as treated versus non-treated cancer cell lines. Candidate must have a strong cellular and molecular biology background. Please e-mail or send your curriculum vitae and at least two references to: **James R. Hudson Jr., Research Genetics, 2130 South Memorial Parkway, Huntsville, AL 35801. E-mail: hudson@resgen.com.**



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Ph.D. in Molecular or Cellular Biology, Microbiology, or Biochemistry with 3–5 years postdoctoral experience in molecular genetics techniques, protein expression, and protein chemistry. Additional experience in receptor biology, phage display technology, or high-throughput screening a plus.

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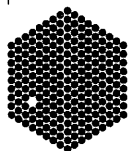
B.S./M.S. scientists with 2 or more years postgraduate experience in Molecular Biology, Biochemistry, or Cell Biology. Experience in one (or more) of the following areas is required: gene cloning, DNA sequencing, protein expression, or protein purification.

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EMBL

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

Structural Biology Programme

TWO GROUP LEADERS

The European Molecular Biology Laboratory in Heidelberg, Germany, has a wide research programme in the areas of structural, developmental and cell biology, cell biophysics, gene expression and instrumentation. The Structural Biology (incl. Biocomputing) Programme maintains a multidisciplinary approach to study structural basis of diverse biological problems. The research groups within the Programme are currently using biocomputing methods, X-ray crystallography, NMR spectroscopy and high-resolution electron microscopy, supported by broad expertise in biochemistry and molecular biology, to study membrane, cytoskeletal and signalling proteins, viruses and macromolecular assemblages, protein/nucleic acid interactions, protein folding, dynamics and molecular evolution.

The Programme has an up-to-date crystallographic facility with several image plate detectors and cryo-cooling devices for in-house data collection. The EM facility is equipped with several transmission electron microscopes (including a Phillips CM200 FEG) and scanning microdensitometers. The NMR laboratory has currently two upgraded spectrometers (500 and 600 MHz). The wet laboratories have adequate equipment for protein expression and purification.

The Structural Biology Programme intends to make two Group Leader appointments beginning in January-June, 1999. The top criterion in the search is scientific excellence of the candidates. Two fields are of special interest:

(1) MEMBRANE PROTEIN STRUCTURE (Ref.: 98/14)

The Group Leader is expected to pursue a strong research programme to study structure of membrane proteins using alternatively X-ray crystallography, electron microscopy, biophysical and/or biochemical methods. The successful candidate will work in a collaborative environment in which studies on membrane proteins have already a strong tradition.

(2) PROTEIN CRYSTALLOGRAPHY (Ref.: 98/15)

The Group Leader is expected to develop an active research programme using protein crystallography. He/she should have demonstrated expertise in determination of crystal structures and interest to pursue a strong biological project. Suitable project areas include protein/nucleic acid interactions, signal transduction, dynamics of cytoskeleton and cellular organisation, and biology of membrane proteins.

Candidates should have a PhD and relevant post-doctoral training, with significant research accomplishments, and should demonstrate the ability to establish and run an independent research group.

Further Information: Matti Saraste, Tel.: +49 6221 387365, Fax: +49 6221 387306
 E-mail: saraste@embl-heidelberg.de

EMBL is an inclusive, equal opportunity organisation.

EMBL Web site: <http://www.embl-heidelberg.de/>

To apply please send your CV or write for a standard application form, quoting appropriate reference no., to:

The Head of Human Resources, EMBL, Postfach 10.2209, 69012 Heidelberg, Germany. Fax: +49 6221 387555. email: jobs@EMBL-Heidelberg.de

POSITIONS OPEN

HARVARD MEDICAL SCHOOL DEPARTMENT OF DERMATOLOGY

The Department of Dermatology, Harvard Medical School is accepting applications for research **POSTDOCTORAL FELLOWSHIP** positions. The Department is a recipient of an NIH Training Grant which provides salary support for two years of directed laboratory research. Funds are available to support individuals who would begin this postdoctoral training anytime during the period July 1, 1998, to January 1, 1999. We will aid interested candidates in identifying mentors and projects within the department.

We are particularly interested in recruiting M.D.'s and M.D.-Ph.D.'s who will be completing their dermatology training and are interested in an academic career in basic skin-related research. *Candidates must be U.S. citizens or permanent residents of the United States.*

Interested candidates should send a letter of inquiry specifying research interests and a curriculum vitae by May 10, 1998, to: **Howard P. Baden, M.D., Department of Dermatology, Bartlett 616, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114.**

The Department of Dermatology, Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.

EXPERIMENTALISTS AND THEORISTS POSTDOCTORAL AND RESEARCH FELLOWS Physical Chemistry, Biophysics, and Physics

The Wilson group, at the University of California, San Diego, Department of Chemistry and Biochemistry, has positions available for exceptionally talented scientists in the following areas: ultrafast X-ray diffraction and absorption applied to chemical and biochemical dynamics and function, dynamics of biomolecular and biological processes (including interneuronal communication and function) imaged using ultrafast microscopy, and theoretical studies related to these areas. For more information about these positions and the group, or to receive application process information, visit our website: <http://www-wilson.ucsd.edu>; e-mail: wjgobops@ucsd.edu. Positions commensurate with experience and qualifications, with salaries based on University of California pay scales. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately at Childrens Hospital Los Angeles Research Institute (University of Southern California) for an NIH-sponsored research to study vascular endothelial cell signaling with endotoxin and other soluble microbial proteins pertaining to sepsis or to various systemic infections. Applicants should have a Ph.D. with solid knowledge, background, and experience in one or more of the following areas: endothelial cell biology, molecular/cellular biology, transfection/protein overexpression, protein chemistry and receptor biology, and signal transduction. Send curriculum vitae and names of three references to: **Dr. Moshe Arditi, Division of Infectious Diseases, MS# 51, Childrens Hospital Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027. FAX: 213-660-2661. E-mail: marditi@smtpgate@chla.usc.edu.**

The Department of Dermatology at the University of Illinois at Chicago is seeking a **POSTDOCTORAL RESEARCH ASSOCIATE**, for a minimum of two years, beginning June 1, 1998, for research in mechanisms of signal transduction associated with irritant and allergic contact dermatitis, and alopecia areata. M.D. or M.D.-Ph.D. and prior experience in biochemical and molecular biology techniques required. Mail or FAX your curriculum vitae and three letters of reference by April 30, 1998, to: **Raj Kumar, Ph.D., Department of Dermatology, M/C624, University of Illinois at Chicago, 808 South Wood Street, Chicago, IL 60612. FAX: 312-996-1188. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH SCIENTIST is available immediately for Ph.D. or M.D. in laboratory affiliated with the University of Washington in Seattle to study leukemic function of the chimeric HRX fusion protein. Previous publications documenting experience characterizing and purifying cellular factors important in regulating phosphorylation and/or purifying components of chromatin remodeling complexes is required. Send curriculum vitae and two references, preferably by e-mail, to: **Dr. Douglas Tkachuk, Department of Pathology (113), Puget Sound Health Care System, 1660 South Colman Way, Seattle, WA 98108. E-mail: tkachuk@u.washington.edu.**

POSITIONS OPEN

Mayo Clinic **POSTDOCTORAL FELLOWSHIPS** in gastrointestinal research are available for two or more years beginning in 1998. Faculty employs multidisciplinary approach using biochemical, cell/molecular biological, immunological, physiological, and electrophysiological techniques. Applicant may focus on clinical and/or basic studies. Applicants should have M.D. and/or Ph.D. degree and must be a U.S. citizen or have permanent visa status. Please submit curriculum vitae and three letters of reference to: **Dr. N. F. LaRusso, Program Director, NIH Training Grant, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Employer.**

POSTDOCTORAL POSITION IN BIOCHEMISTRY/MOLECULAR BIOLOGY

The University of Michigan, Department of Dermatology, is seeking a highly motivated, creative scientist to fill a Postdoctoral position. Preference will be given to candidates who are available in the spring of 1998. Applicants should possess a Ph.D. with experience in biochemistry and/or molecular biology, with demonstrated research excellence, and strong written and oral communication skills.

Research will focus on molecular mechanisms through which ultraviolet irradiation activates protein kinase signal transduction cascades leading to expression of gene products associated with destruction of the extracellular matrix in human skin. These studies will also investigate the role of reactive oxygen species and cellular antioxidants as mediators of the ultraviolet response in human skin. This research will provide the selected applicant with a unique opportunity to examine signal transduction events in human tissue *in vivo* (see Fisher et al., *Nature* 379:335-339, 1996; *New England Journal of Medicine* 337(20):1419-1428, 1997).

Positions offer competitive salaries, long-term stable funding, and excellent opportunities for career development/advancement.

Send curriculum vitae and references to: **Dr. Gary Fisher, Department of Dermatology, University of Michigan, 1150 West Medical Center Drive, Med Sci I 6447, Ann Arbor, MI 48109-0609. FAX: 734-647-0076; e-mail: dianemch@umich.edu.**

We encourage applications from candidates who will enrich and contribute to the cultural diversity of our University.

Six neuroscience **POSTDOCTORAL POSITIONS**. (1) Neurotrophins for sprouting and functional recovery after spinal injury in adult rats (T. Hagg). (2) Role of p75 NGF receptor in injured and aging rodent forebrain (T. Hagg). (3) Endogenous stem cells as neuron replacement in a rat Parkinson's model (T. Hagg). (4) Differential display analysis of stem cells as precursors for dopaminergic neurons (H. A. Robertson). (5) Stem cell transplantation for neuron replacement in a rat Parkinson's model (I. Mendez). (6) Antidepressant and antipsychotic drugs, behavior and molecular neurobiology (S. Dursun). Starting early 1998. Send curriculum vitae and three reference letters (identify position #) to: **Dr. Hagg, Department of Anatomy and Neurobiology, Dalhousie University, Halifax, Nova Scotia B3H 4H7 Canada. For detailed information website: <http://www.anatomy.dal.ca/html/PDF>.**

UNIVERSITY OF MICHIGAN

Two **POSTDOCTORAL POSITIONS** are available immediately to investigate genetic mechanisms of signal transduction and of DNA excision repair in autoimmunity. Experience in recombinant DNA technology, cellular and molecular immunology, and protein chemistry is required. Please submit curriculum vitae and names of three references to: **Dr. Joseph Holoshitz, University of Michigan Medical Center, 5520D MSRB I, Ann Arbor, MI 48109-0680.**

Two **POSTDOCTORAL POSITIONS** are available to study Huntington's disease protein and its interactors (*Nature* 378:398, 1995; *PNAS* 93:4939, 1996; *J. Neurosci.* 18:1261, 1998). Send a curriculum vitae with names of three references to: **Dr. Xiao-Jiang Li, Department of Genetics, Emory University, 1462 Clifton Road, Atlanta, GA 30084. FAX: 404-727-3949; e-mail: xiaoli@genetics.emory.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWS

The University of Medicine and Dentistry of New Jersey-Cancer Institute of New Jersey has two Postdoctoral Fellow positions available.

CaM K III

Study the role of the novel protein kinase elongation factor-2 kinase (CaM kinase III) (*PNAS* 94:4884, 1997) in cellular proliferation and in the growth of cancer cells. Recent Ph.D. and/or M.D. with training in biochemistry, genetics, or comparable field of study is required. Experience in transgenic and gene knockout technologies, cell culture, and animal experimentation is essential. Expertise in molecular biology or cell signaling techniques would be an advantage.

MDR

Study multidrug resistance in human cancer cells. Ph.D. and/or M.D. degree is required. A strong background in biochemical or molecular pharmacology, or related field is highly desirable. Experience in cell culture and animal experimentation is essential.

Please submit curriculum vitae to: **Toni Ann Parmer, Ph.D., The Cancer Institute of New Jersey, 195 Little Albany Street, New Brunswick, NJ 08901. The University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.**

POSTDOCTORAL POSITIONS DEPARTMENT OF MICROBIOLOGY COLORADO STATE UNIVERSITY

Postdoctoral positions are currently available in the Mycobacterial Research Laboratories (MRL), Department of Microbiology, Colorado State University. Areas of interest include the cell biology of infected macrophages and the T cell biology of acquired immune responses to mycobacterial disease. Applications from new Ph.D. graduates are welcome, and those with training in molecular analysis of cellular signaling will be at an advantage. Letter of interest, current curriculum vitae, and names of three references should be sent to: **Mrs. Jenny Harding, Department of Microbiology, Colorado State University, Fort Collins, CO 80523. Colorado State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.**

POSTDOCTORAL RESEARCH FELLOW position available to study the molecular/biochemical mechanisms of tumor suppressor gene maspin and its associated proteins in breast and prostate cancers (*PNAS* 95: 499-504; *Mol. Med.* 3:49-59, *PNAS* 93:11669-11674; *JBC* 269:30988-30993; *Science* 263:526-529). Molecular biology experience is essential. Cell biology and biochemistry background is preferred. Candidates should have a recent Ph.D. in molecular biology and cancer biology. Send curriculum vitae and the names of three references to: **Dr. Shijie Sheng, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. FAX: 313-993-4112; e-mail: ssheng@med.wayne.edu. Wayne State University is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS available in the Cardiovascular Immunobiology Laboratory, Divisions of Cardiovascular Medicine and Molecular Cardiology at the Boyer Center for Molecular Medicine, Yale University. Areas of investigation include steroid hormone-mediated endothelial cell (EC) signaling, cytotoxic lymphocyte-EC interactions, EC apoptosis, and leukocyte integrin-mediated T cell responses. Ph.D. or M.D. required, as is two years of experience in related area. Send curriculum vitae to: **Dr. Jeffrey R. Bender, Boyer Center for Molecular Medicine 454C, Yale University School of Medicine, 295 Congress Avenue, New Haven, CT 06536-0812. FAX: 203-737-2293. E-mail: jeffrey_bender@qm.yale.edu.**

POSTDOCTORAL POSITIONS available immediately to investigate transmitter release mechanisms and synaptic plasticity, in mammalian central nervous system using electrophysiological techniques. Highly motivated Ph.D.'s with expertise and experience in whole cell patch clamp technique and brain slice preparations please write to: **B. R. Sastry, Department of Pharmacology and Therapeutics, The University of British Columbia, Vancouver, British Columbia V6T 1Z3 Canada. FAX, Telephone: 604-822-2290; e-mail: sastry@unix.ubc.ca.**

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MorphoSys (www.morphosys.de) is one of Europe's leading biotechnology companies. Based in Munich, the company has rapidly established an outstanding reputation for developing and applying new drug discovery technologies. As the company continues to expand its activities, it now seeks an R&D Director to take overall responsibility for research and development.

The successful applicant will combine outstanding academic and commercial achievement with the ability to apply industrial disciplines and processes to the day-to-day management of our resources. An integral member of the senior management team, you will take a leading role in strategic analysis, the handling of scientific collaborations and commercial development. In addition, you will use your team leadership skills to guide our senior project scientists and their respective teams.

Your qualifications and experience will include:

- A PhD in the life sciences, probably in protein chemistry, genetics or molecular biology.
- A successful track record in drug discovery research, the more recent portion of which should have been gained in the pharmaceutical or biotechnology industry.
- A deep understanding of modern, genomics-based drug discovery.
- A creative, forward-looking approach to science.

This is a unique opportunity to join one of Europe's premier biotechnology companies at an exciting stage in its development. An attractive package, which includes stock options, is pitched to attract the very best candidate. Please call our advising consultant, Jacques Police, for an initial confidential discussion on +44 171 312 3223 (office hours) or +44 181 341 3107 (after 8pm local time), or send your full CV to him at Korn/Ferry International, 252 Regent Street, London W1R 5DA. Alternatively send by fax on +44 171 312 3383 or by e-mail to jacques.police@kornferry.com



Institute of Arable Crops Research

Director

Rothamsted, Harpenden
up to £70K

Applications are invited for the position of Director of the Institute of Arable Crops Research, an independent research institute sponsored by the Biotechnology and Biological Sciences Research Council. The present Director, Professor Ben Mifflin, retires in January 1999.

IACR is located on three key sites; Rothamsted Experimental Station, Harpenden, Long Ashton Research Station near Bristol, and the Broom's Barn Experimental Station (a sugar beet research facility) near Bury St Edmunds. The Director will be located at the Rothamsted site, which is owned by the Lawes Agricultural Trust.

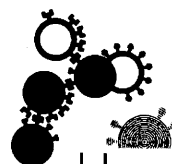
The institute conducts fundamental and applied strategic research to optimise existing and novel crop production systems and their interactions with the environment. To achieve this, the institute has developed four key research themes, which encompass research targets across the sites. The themes are:

- inherent plant productivity
- integrated crop protection
- sustainable production systems
- environmental interactions

The Director manages the institute programme and is



IACR
Integrated Approach to
Crop Research



bbsrc
biotechnology and biological sciences
research council

responsible for developing strategic links with other bodies, for developing technology interaction and for exploiting opportunities for increased funding from commercial and other sources. There may also be opportunities to maintain an active personal research programme.

A starting salary up to £70K is available. Further pay progression is determined on a personal basis, linked to performance and the success of the institute.

Applicants must be highly qualified in a relevant branch of the life sciences, with an international reputation in research and/or research management. Directors have considerable delegated authority within the BBSRC system and candidates will therefore be required to provide evidence of good management skills.

The closing date for applications is 3rd April 1998. Application forms and further particulars are available from: Mr R J Price, Director of Human Resources, BBSRC Office, Polaris House, North Star Avenue, Swindon SN2 1UH, telephone: 01793 413245 or e-mail: robert.price@bbsrc.ac.uk

For further information and an informal discussion telephone Professor Raymond Baker FRS, Chief Executive BBSRC Office, on 01793 413208.

POSITIONS OPEN

POSTDOCTORAL POSITION IN RESPIRATORY VIRUSES SECTION

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

Qualified and interested candidates should send curriculum vitae, bibliography, and three (3) letters of reference to:

Dr. Brian Murphy
Head, Respiratory Viruses Section, NIAID, NIH
7 Center Drive MSC 0720
Building 7, Room 100
Bethesda, MD 20892-0720
Telephone: 301-496-4205
FAX: 301-496-8312

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POSTDOCTORAL POSITION immediately available for the study of gene transcript expression as an indicator of mammalian toxicity. Research will include working with high-density nucleic acid arrays to map transcript expression profiles. Work will be performed in conjunction with scientists of the Toxicology and Agricultural Products Research Departments. Candidates should have a Ph.D. in molecular biology, biochemistry, or related field. Experience in mRNA isolation, cDNA synthesis, nucleic acid labeling, hybridization, and PCR is preferred. Computer skills should include expertise in DNA and protein sequence analyses. Appointment is for one year, with possibility of extension. Initial annual salary is \$38,000, and health care benefits are provided. Send curriculum vitae and names of three references to: Dr. James D. Burke, Rohm and Haas Research Laboratories, 727 Norristown Road, Spring House, PA 19477-0904. E-mail: jdburke@rohmhaas.com.

POSTDOCTORAL RESEARCH ASSOCIATE. A position is currently open to examine the *in vivo* organization of Rho family GTPase signaling. We are investigating the roles of adapter/regulatory molecules and the cytoskeleton in controlling receptor crosstalk and cell motility/morphology. Novel fluorescent protein analogs that reveal protein-ligand interactions and protein structural changes in individual, living cells will be used to characterize the spatiotemporal dynamics of signaling. Please contact: Dr. Klaus Hahn, Department of Cell Biology, Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. E-mail: khahn@scripps.edu.

POSTDOCTORAL FELLOW. Bone/cell/molecular biology. Saint Francis Hospital and Medical Center is seeking candidates who have completed a doctoral degree to join our NIH-supported Bone Biology Laboratory. Interested candidates should send a résumé and references to: Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299. FAX: 860-714-8053. *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITIONS are available in biomedical engineering laboratory to study (a) design of mucosal vaccine formulations using polymer carriers and (b) polymeric delivery systems for chemotherapy. Experience with biochemical or cellular systems highly desirable. Send curriculum vitae and names of references to: Prof. W. Mark Saltzman, School of Chemical Engineering, Cornell University, Ithaca, NY 14850. E-mail: saltzman@cheme.cornell.edu.

POSITIONS OPEN

PROTEIN CRYSTALLOGRAPHY DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY University of Alberta

The Department of Medical Microbiology and Immunology, University of Alberta, invites applications for a faculty position in structural biology, preferably at the **ASSISTANT PROFESSOR** level (\$39,940 to \$55,882 per annum). The position is an entry into the regular academic progression of the University. The University of Alberta is a major center for structural biology and protein crystallography in Canada, and we offer an outstanding research environment and graduate training program in virology, bacteriology, and immunology (see [website: http://www.ualberta.ca/~mmid/](http://www.ualberta.ca/~mmid/)). Applicants should have a proven record of research achievement, and be eligible for funding by the Alberta Heritage Foundation for Medical Research. The successful candidate will be expected to develop a dynamic research program on the structure and function of proteins involved in infection, microbial pathogenesis, or immunity, and contribute to undergraduate and graduate teaching. An attractive start-up package, including three years of initial salary support, will be provided.

Individuals with Ph.D. or M.D. and appropriate postdoctoral experience should send a curriculum vitae and brief description of research plans and arrange to have three to five letters of reference sent on their behalf to: Protein Crystallography Search Committee, c/o Dr. James R. Smiley, Chair, Medical Microbiology and Immunology, 1-41 Medical Science Building, University of Alberta, Edmonton, Alberta T6G 2H7 Canada. The deadline for receipt of applications is April 30, 1998.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disability, and members of visible minorities.

MASSACHUSETTS GENERAL HOSPITAL HUMAN IMMUNOTHERAPY

The Hematology-Oncology Unit at Massachusetts General Hospital invites qualified applicants for two positions involving immunotherapeutics for human melanoma: (1) **POSTDOCTORAL ASSOCIATE.** A motivated Ph.D.-level scientist with experience in cellular and molecular immunology is sought to pursue studies related to immune monitoring in patients receiving dendritic cell vaccines and tumor antigen discovery. (2) **RESEARCH TECHNICIAN.** A dedicated B.S./M.S.-level scientist is sought to assist with cellular assays (CTL, proliferation, ELISA) related to longitudinal monitoring of patients. Send curriculum vitae and names of three references by April 1, 1998, to: Dr. Frank G. Haluska, Division of Hematology/Oncology, Massachusetts General Hospital, GRJ 1021, 55 Fruit Street, Boston, MA 02114. FAX: 617-726-6974; e-mail: haluska.frank@mgh.harvard.edu.

POSTDOCTORAL POSITION LIPID METABOLISM

Postdoctoral Research position available immediately to work in a large research group to study lipid and carbohydrate metabolism in healthy and obese individuals. Previous experience in performing clinical research studies is not necessary. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or FAX your curriculum vitae, names of three references, and a brief description of your research experience to: Dr. Labros S. Sidossis, Metabolism Unit, SBI, University of Texas Medical Branch, 815 Market Street, Galveston, TX 77550. FAX: 409-770-6626. *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION to study retroviral pulmonary oncogenesis in sheep. Qualifications include Ph.D. in retrovirology; experience in genomic DNA cloning, integration site analysis, and viral gene expression in eukaryotic cells desirable. Send curriculum vitae, research interests, and three reference contacts to: Dr. James C. DeMartini, Department of Pathology, Colorado State University, Fort Collins, CO 80523-1671. FAX: 970-491-0603; e-mail: jedemar@cvmbs.colostate.edu. Application deadline is April 15. *CSU is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS AVAILABLE TO STUDY ROLE OF INFECTIOUS AGENTS IN VASCULAR DISEASES

The Vascular Biology Laboratory of the Cardiac Research Foundation, Washington Hospital Center, is recruiting Postdoctoral Scientists (Ph.D. or M.D.) to join an effort in elucidating the role and molecular mechanisms of infection, and of the immune response to infection, in the development of atherosclerosis. Two positions are available: **IMMUNOLOGIST** with emphasis on molecular biology and immunology techniques to study mechanisms by which infectious agents augment local and systemic inflammation leading to vascular disease. Studies will also include the design of molecular therapeutic interventions using immunomodulatory cytokines such as interleukin-12 to inhibit the vasculopathic effects of infectious agents. Experience with gene transfer techniques including adenovirus vectors desirable; **INFECTIOUS DISEASE BIOLOGIST, MICROBIOLOGIST, or IMMUNOLOGIST** with significant experience in establishing and studying mouse models of infectious disease, with emphasis on the role of immunological mechanisms in pathogenesis. Experience in use of knock-out mice (e.g., cytokine, chemokine) to study such mechanisms desirable.

The Cardiology Research Foundation is a well-funded, dynamic Institution known worldwide for excellence in clinical cardiology, which is rapidly expanding its programs in applied basic research. Please send curriculum vitae and the names of three references to:

Dr. Stephen E. Epstein
Director, Vascular Biology Research
Cardiac Research Foundation
Washington Hospital Center
110 Irving Street, N.W., Suite 4B-1
Washington, DC 20010
E-mail: sxe2@mhg.edu
FAX: 202-877-2715

POSTDOCTORAL FELLOWSHIPS CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES University of Toronto

Two positions are available immediately to study the cellular biology of presenilin and ataxia-telangiectasia mutated (Atm) genes in murine models of human neurodegenerative diseases. Applicants should have a Ph.D. or equivalent degree and significant experience in tissue culture and molecular biology techniques. A background in gene regulation, cell cycle control, developmental neurobiology, and mechanisms of cell survival is preferred. Replies with curriculum vitae and three letters of reference should be sent to: Dr. Howard T. J. Mount, Centre for Research in Neurodegenerative Diseases, University of Toronto, 6 Queen's Park Crescent West, Toronto, Ontario M5S 3H2 Canada. FAX: 416-978-1878.

UNIVERSITY OF PENNSYLVANIA POSTDOCTORAL POSITION IN IMMUNOLOGY AND GENE THERAPY

Postdoctoral positions are available to study molecular mechanisms of autoimmunity and T cell tolerance, and gene therapy of autoimmune diseases (*J. Clin. Inv.* 100: 1951, 1997). Experience in apoptosis or costimulation using molecular biology techniques are desirable. Send curriculum vitae to: Dr. Youhai Chen, Institute for Human Gene Therapy, University of Pennsylvania School of Medicine, BRB-1 Room 401, 422 Curie Boulevard, Philadelphia, PA 19104.

POSTDOCTORAL POSITIONS for studies of molecular neurobiology in the area of transcription factors, neurotrophins, and transgenic mouse models. Background in molecular biology is preferred. Please send curriculum vitae and names of three references to: Dr. Tong H. Joh, Molecular Neurobiology, The WM Burke Medical Research Institute, Cornell University Medical College, 785 Mamaroneck Avenue, White Plains, NY 10605.

POSTDOCTORAL POSITION available. Research includes the analysis of the actions of vitamin A and retinoic acid during embryonic development and in tumor cells. Send curriculum vitae, names of three references, and a statement of research interest to: Dr. Lorraine J. Gudas, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. *An Equal Opportunity Employer/Affirmative Action/Minorities/Females/Veterans.*

Functional Genomics

Opportunities for experts in bioinformatics, phage or ribosome display and monoclonal antibody generation, cell and molecular biology

Celltech Therapeutics, a company committed to the discovery and development of novel therapeutic agents to treat human disease, seeks highly motivated and innovative scientists to join its newly established Functional Genomics Department. The main departmental objective is to identify and validate new drug targets in a variety of cell-based assays, primarily through the screening of previously uncharacterised recombinant proteins. The approach is multi-disciplinary, with a strong emphasis on the establishment and application of new technologies.

Bioinformatics

We are looking for a team-player - ideally with a PhD in the life sciences - who has proven expertise in bioinformatics. You will be expected to develop computational solutions for biological problems, and to take responsibility for implementing and developing biocomputing tools in ways that facilitate departmental objectives. Proficiency in the use of database mining techniques is essential, together with the ability to analyse, collate and interpret data from a wide variety of sources in close collaboration with a team of molecular and cell biologists. Ref: 196.

Phage/ribosome display and monoclonal antibody generation

We also seek a PhD-level molecular biologist/cell biologist with hands-on experience of phage or ribosome display. You will be responsible for establishing appropriate combinatorial technologies that support the department's aims, and in particular the use of recombinant DNA methodologies for the isolation of function-modifying antibodies or other binding proteins. Experience or a thorough understanding of the more conventional methods of antibody generation would be an asset. Ref: 195.

Cell/molecular biology

We wish to appoint a postgraduate with a strong background in cell biology. Using modern molecular techniques, you will join a team to undertake tissue culture experiments in order to characterise the properties and function of new proteins. Experience of working with a variety of cell types, and in the use of cell-based assays that relate to disease models, would be an asset. Ref: 197.

In all cases, you will qualify for a competitive salary, an attractive range of benefits, and further opportunities to develop your career in a successful and growing company.

Please apply with full c.v. to the Recruitment Officer, Celltech Group plc, 216 Bath Road, Slough, Berkshire SL1 4EN, quoting the appropriate reference.



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Associate professor of plant physiology and assistant professor of plant physiology

Applications are invited for an Associate Professorship of plant physiology and an Assistant Professorship of plant physiology at the Department of Plant Biology, The Royal Veterinary and Agricultural University, Copenhagen. The associate professorship is a tenured appointment whereas the assistant professor is appointed for a 3 year period. The appointments are expected to be effective from July 1st 1998 or as soon as possible thereafter.

Associate Professor of Plant Physiology.

The selected candidate should participate in the scientific development of the research area *whole plant physiology* and should apply bio-imaging techniques to study contemporary questions in plant biology. The ideal candidate should have a proven record of scientific output at an international level within plant physiology and have well documented teaching qualifications.

Assistant Professor of Plant Physiology.

We seek to identify individuals whose experience and interests lie within strengths of the laboratory related to solute transport in plant cells. The ideal candidate should have experience in working with membrane proteins and/or membrane transport and have documented research at an international level within plant physiology.

Further information.

On the positions, terms of employment, the appointment procedure and the preparation of applications can be found on the WWW at: <http://www.plbio.kvl.dk> and <http://www.kvl.dk/news/> or by contacting Professor Michael Gjedde Palmgren, E-mail palmgren@biobase.dk, or the Head of Department, Dr. Lisa Munk, E-mail lm@kvl.dk. Applicants will be assessed in accordance with Ministry of Education Order no. 728 of 9th September 1993. Applications should arrive not later than 12.00 hrs. on March 26th 1998 and **must** indicate whether the full job description has been obtained.

POSITIONS OPEN

MOLECULAR MECHANISMS OF BIRTH DEFECTS

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE positions available to investigate molecular, molecular genetic, and/or cellular signal transduction mechanisms of craniofacial defects. Particular emphasis directed toward clarification of interactions among growth factors, protein kinases, and transcription factors in regulating gene expression and cell differentiation during normal and abnormal mammalian embryonic development. Background in molecular/molecular genetic methodologies, cell and/or developmental biology required. Applicants should submit curriculum vitae, statement of current research activities, and names of three references to: **Dr. Robert Greene, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Sciences, School of Dentistry, University of Louisville, 501 South Preston Street, Louisville, KY 40292.**

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

CANCER RESEARCH TRAINING CASE WESTERN RESERVE UNIVERSITY CANCER CENTER

Multidisciplinary NIH-funded **POSTDOCTORAL** cancer Research Training positions for individuals holding M.D., M.D.-Ph.D., or Ph.D. degrees. Research focuses include: apoptosis, signal transduction, cell adhesion, cancer genetics, gene therapy, and tumor immunology.

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

NIH-funded **POSTDOCTORAL POSITION** available to study the interaction of the Lyme disease agent *Borrelia burgdorferi* with mammalian integrins. Ph.D., M.D.-Ph.D., or D.V.M.-Ph.D. required; must be U.S. citizen or permanent resident. Send curriculum vitae and summary of research experience, and have three reference letters sent to: **Jenifer Coburn, Ph.D., Division of Rheumatology, Tufts-New England Medical Center, Box 406, 750 Washington Street, Boston, MA 02111.** Equal Opportunity Employer.

EUROPEAN OPPORTUNITIES

The Swiss Federal Institute of Technology Zurich (ETHZ) invites applications for the position of a

PROFESSOR IN PLANT SCIENCES PLANT BIOTECHNOLOGY

We are seeking an outstanding Plant Scientist who pursues an internationally competitive research programme in plant molecular biology and gene technology. Excellent working conditions and facilities are offered.

The research profile covers the intersection of basic and applied plant sciences and pursues the optimisation of crop plants. Therefore, the willingness to cooperate with national and international agricultural research institutions is a prerequisite.

The successful candidate will participate in a comprehensive teaching programme in general plant biology at all levels and will carry special responsibility of the plant biotechnology curriculum within the agricultural sciences (agrobiotechnology).

Applicants should submit a detailed curriculum vitae and a list of publications to: **The President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, Zurich CH-8092 Switzerland** no later than April 15, 1998. The ETHZ specifically encourages female candidates to apply with a view toward increasing the proportion of female professors.

FACULDADE DE CIENCIAS DA UNIVERSIDADE DO PORTO FACULTY POSITION

Agricultural Science and Engineering

Applications are invited for positions in a newly created Department of Agricultural Science and Engineering at the University of Porto, Portugal. Applicants should send a detailed curriculum vitae, including details of their M.Sc. or Ph.D. thesis to the following address: **Conselho Científico, Faculdade de Ciências, Praça Gomes Teixeira, Porto 4050 Portugal.** FAX: 351-2-2008628; e-mail: jfgomes@fc.up.pt.

POSITIONS OPEN

BIOCHEMIST/MOLECULAR BIOLOGIST. A **POSTDOCTORAL RESEARCH ASSOCIATE** position is available at the United States Department of Agriculture, Agricultural Research Service, Food Animal Protection Research Laboratory, in College Station, Texas. Salary is commensurate with experience (GS-11: \$38,593 to \$50,168). The incumbent would function as a team member in research directed toward discovering alternatives to the use of antibiotics in food animals. Specifically, the research will involve cloning and expression of avian and/or bovine antimicrobial peptides. Qualified applicants must have a Ph.D. in biochemistry, molecular biology, or closely related field, and should have experience in protein purification and recombinant DNA/protein expression techniques. Interested applicants should send curriculum vitae and names of three references to:

**Dr. Carol K. Holtzapple
USDA-ARS-FAPRL**

2881 F&B Road

College Station, TX 77845

Telephone: 409-260-9263

FAX: 409-260-9332

E-mail: holtzap@usda.tamu.edu.

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FELLOWSHIP

FELLOWSHIPS IN AIDS RESEARCH

New York University (NYU), an NIH-designated Center for AIDS Research, invites applications to a multidisciplinary Postdoctoral program for training in basic research related to the immunopathogenic mechanisms underlying HIV infection. Trainees will work collaboratively with mentors specializing in immunology, retrovirology, molecular biology, antiviral therapeutics, or pediatrics. The program is placed within a multi-institutional setting with labs located at NYU Medical Center, the Public Health Research Institute, Veterans Administration Medical Center, and Bellevue Hospital. As many as seven Fellows will be accepted into this NIH-sponsored program for up to three years of training.

Individuals with an M.D., Ph.D., or M.D.-Ph.D. may apply. Candidates must be U.S. citizens or permanent residents. Please submit a curriculum vitae with a summary of past research experience and arrange for three letters of recommendation to be sent directly to:

**Susan Zolla-Pazner, Ph.D.
VA Hospital**

423 East 23rd Street, Room 18124N

New York, NY 10010-5050

FAX: 212-951-6321

Women and minority candidates are encouraged to apply.

ANNOUNCEMENTS

TELOMERES AND TELOMERASE: IMPLICATIONS FOR CELL IMMORTALITY AND CANCER

June 1-3, 1998, Hotel Sofitel, San Francisco

Co-chairs: Michael Fossel, M.D., Ph.D., and Michael West, Ph.D.

An important meeting dealing with the changes that occur in telomeres and gene expression as cells senesce. Research on telomerase, telomerase activation and inhibition, and primordial stem cells will be presented, focusing on clinical implications for cancer and age-related diseases. For full program, please contact:

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ANNOUNCEMENTS

A call for nominations...

THE RHODA AND BERNARD SARNAT PRIZE 1998

An International Award to Recognize Achievements in Mental Health

The Institute of Medicine (IOM) is accepting **NOMINATIONS** for the international Rhoda and Bernard Sarnat Prize in mental health. The award, a medal and \$15,000, recognizes individuals, groups, or organizations for outstanding achievement in improving mental health. The award is provided by Rhoda and Bernard Sarnat as a commitment to improve the science base and delivery of mental health services. The purpose of the Sarnat Prize is to recognize:

Contributions to improve understanding of or treatment for mental disorders (basic biomedical or clinical research);

Innovations in mental health services (counseling, clinical care, prevention, amelioration of symptoms, or promotion of mental health); or

Public policy change that fosters science or improves mental health services.

To encourage a broad range of candidates, there are no constraints on the education, profession, or specific discipline of individuals or organizations. The award may honor work in psychiatry, psychology, social work, nursing, public health, neuroscience, advocacy, or another relevant activity or field. The award will be made without regard to nationality.

Any individual or organization may submit nominations. Nominations should be accompanied by a detailed written description of the accomplishments of the nominee, and an explanation of why those accomplishments merit the Sarnat Prize. Nominations should not exceed four pages in length. A select bibliography (up to 10 publications) or other documentation of accomplishments will greatly aid the selection process. Only written material will be considered. Letters of endorsement in addition to the nomination are not necessary, and will not be considered. Nominations should be postmarked no later than May 1, 1998, and sent to: **Cheryl Mitchell, Sarnat Award Nominations, Institute of Medicine, National Academy of Sciences, 2101 Constitution Avenue N.W., FO3021, Washington, DC 20418.** Telephone: 202-334-3387; FAX: 202-334-1317; e-mail: cmitchel@nas.edu.

CAENORHABDITIS GENETICS CENTER (CGC)

The CGC acquires, maintains, and distributes genetic stocks of *Caenorhabditis elegans* for use by Investigators initiating or continuing research on this nematode. The CGC's collection of more than 3,000 strains includes one allele of each mapped gene, all available chromosome rearrangements, and selected multiply mutant stocks for genetic mapping. Requests for strains should include a brief statement of the research or training activity for which the stocks are intended. Recipients are asked to acknowledge the CGC, which is supported by NIH's National Center for Research Resources (NCRR), in publications resulting from use of the strains and to provide the CGC with reprints of those publications. The CGC also provides information about *C. elegans*, largely through the publication and distribution of a newsletter, the *Worm Breeder's Gazette*. Inquiries should be addressed to:

**Theresa L. Stieragle, Curator
Caenorhabditis Genetics Center
250 Biological Sciences Center
University of Minnesota
1445 Gortner Avenue
St. Paul, MN 55108-1095
E-mail: stier@biosci.cbs.umn.edu**

TRANSGENICS AND CLONING: COMMERCIAL OPPORTUNITIES

June 24-27, 1998, J. W. Marriott Hotel,
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For information, please contact: *BioConferences International, 2 Madison Avenue, Larchmont, NY 10538. Telephone: 800-5-BIOCON (within USA), or Telephone: 914-834-3100; FAX: 914-834-4329; e-mail: biocon@liebertpub.com.

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The Center for Genomics Research at Karolinska Institute Seeks to Identify Principal Scientists/Faculty Members/Post-Doctoral Fellows

In mid-1997, the most extensive university-industry collaboration in Sweden was announced. At that time, Pharmacia & Upjohn agreed to support a new Center for Genomics Research at Karolinska Institute in Stockholm. This new Center has recently gained Departmental status at Karolinska Institute and has secured significant laboratory space. In addition to the Center itself, collaborations with leading preclinical as well as clinical research groups throughout the Karolinska Institute are currently being established.

At this time we are soliciting applications to fill a few remaining positions, at any academic level, at the Center for Genomics Research (CGR). Employment at the

Stockholm research campus of Pharmacia & Upjohn, located adjacent to the Karolinska Institute, is also possible.

Desired areas of expertise include **functional genomics, genomics technologies, bioinformatics and genetics**.

Areas of expertise include functional genomics, genomics technologies, bio-informatics and genetics.

Especially accomplished applicants will be considered for position as Unit Head of appropriate genomics sub-disciplines and would thus potentially coordinate the efforts of several research groups.

Junior scientists are also encouraged to apply for junior faculty or post-doctoral positions.



**Pharmacia
& Upjohn**

Letters of interest and *Curriculum Vitae* may be directed to :
Dr. Claes Wahlestedt, Director
Center for Genomics Research, KAROLINSKA INSTITUTET
SE-171 77 Stockholm, Sweden
Fax : + 46 8 32 39 50, e-mail : claes.wahlestedt@cgr.ki.se



INSTITUTE of CELL and MOLECULAR BIOLOGY RESEARCH GROUP LEADERS

The Institute of Cell and Molecular Biology has expanded through construction of a new building devoted to basic research in cell biology and now comprises 44 research groups working on a wide range of problems in the following areas: cell biology of prokaryotes and eukaryotes; microbial genetics; fungal, plant and animal development; structural biology; plant-microbial interactions; and molecular plant taxonomy.

The Institute is keen to recruit outstanding young researchers with the potential to lead internationally competitive groups in all areas of its activity. Funding for research and salaries of those recruited will be sought from a variety of sources including The Wellcome Trust, The Royal Society, the MRC and the BBSRC.

Further information about the Institute can be obtained from

<http://www.icmb.ed.ac.uk> or from the address below. Applications, which will be treated in strict confidence, should include four copies of a CV, including the names of three referees, a list of publications, and a 1-2 page research proposal. These should be sent by 1 May 1998 to Professor David Finnegan, Chairman of the Search Committee, Institute of Cell and Molecular Biology, Darwin Building, The King's Buildings, Mayfield Road, Edinburgh EH9 3JR (tel: 0131 650 5361; fax: 0131 650 8650).



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The successful candidate will be appointed as an independent group leader at the Associate Professor level (C2/C3) for a period of five years.

Appropriate laboratory space, funds for laboratory set-up and operation, and additional positions for one Ph.D.-level scientist, two technicians, and one Ph.D. student will be provided.

Applicants should submit their CV and publication list, a short description of their actual and future research objectives and the names of three references until April 15, 1998, to:

Eberhard Gwinner
Max-Planck-Institut für Verhaltensphysiologie
Von-der-Tannstr. 7
D-82346 Andechs
Germany

ANNOUNCEMENTS

PROGRAM FOR COLLABORATIVE RESEARCH ON BPD

The Southwest Foundation for Biomedical Research announces an opportunity for **INVESTIGATORS** to participate in a nationwide collaborative program of research on the developmental pathobiology of bronchopulmonary dysplasia (BPD). The program will provide, to collaborating Investigators, a mammalian model of BPD for basic research studies focused on the molecular etiology, mechanism of pathogenesis, and prevention of BPD. Research designed to define in molecular terms the processes of vasculogenesis/angiogenesis, alveolization, organization of extracellular matrix, and immune function are encouraged. The Southwest Foundation for Biomedical Research invites inquiries, by May 1, 1998, from Investigators at U.S. institutions who could accelerate our understanding of BPD.

For further information, call or write: Dr. Jacqueline Coalson, Department of Pathology, University of Texas Health Science Center-San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7750. Telephone: 210-567-4121; FAX: 210-567-6725

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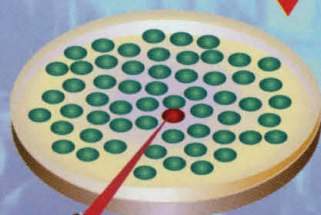
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