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Finding the Missing Link in Proteomics

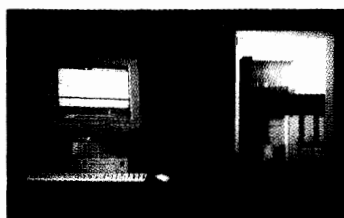


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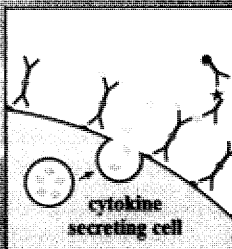
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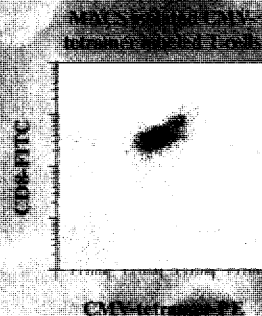
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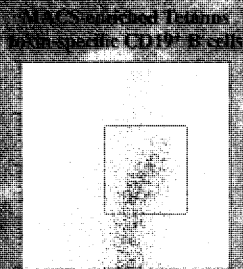
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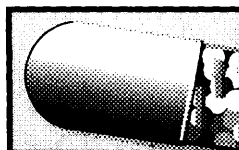
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Cancer Research



Closing in on Cancer Cures

Cancer research offers scientists in many disciplines the opportunity to contribute to significant advances. Those individuals must possess a broad scientific outlook and effective communication skills. by Peter Gwynne

Cancer research has reached a seminal point. For the first time, the prospect of preventing and curing the disease has become a reality. Thus, scientists entering the field can do so in full confidence that their work will provide a significant benefit for humankind. The present promise of cancer research stems from advances in several fields. Genomics has played a major role in permitting clinicians to target tumor cells with maximum effectiveness. The ability to manipulate animal genes has provided improved models of human cancers. The emergence of chemical biology has led to means of analyzing small-molecule compounds that will have effects on cancer therapies. Bioinformatics has helped cancer researchers to make sense of the vast amounts of data that they generate in their laboratories. And a variety of new therapies has emerged from basic research and clinical development.

The breadth of contributions to cancer research makes multidisciplinary interactions essential. Managers of research projects emphasize that clinical and basic scientists must pull together for the common good and that scientific specialists must communicate effectively with their peers in other disciplines. That makes good communication skills essential for any cancer researcher.

Here, we discuss employment opportunities and employers' requirements for their recruits with representatives of three institutions involved in cancer research.

"This generation of research scientists has the opportunity to cure cancer. They are contributing to a goal that's no longer over the horizon."



TOM CURRAN

MEMPHIS, Tennessee: "This is an extremely exciting time in cancer research," says Tom Curran, chairman of the Department of Neurobiology at St. Jude Children's Hospital and president-elect of the American Association for Cancer Research (AACR). "This generation of research scientists has the opportunity to cure cancer. They are contribut-

ing to a goal that's no longer over the horizon."

Three key areas of research have led to that optimistic view, says Curran. Genomics has brought within range the ideas of specifically targeting tumor cells. The emergence of chemical biology has permitted laboratories to analyze a variety of small-molecule compounds that have effects on cancer; St. Jude plans to open an institute in this area in two years. And improvements in animal genetics hold great promise. "The ability to manipulate mouse genes means that we can make much better models for cancer," says Curran.

He also cites the importance of "translational research" that links basic research with clinical experience. St. Jude expects individual scientists to try to understand disciplines apart from their own. "It's no longer enough just to be trained in one field," Curran asserts. "You have to have an appreciation of the others."

Following that philosophy, the hospital recruits at all levels, from holders of Bachelors' degrees up to postdoctoral fellows. "Everybody can make a contribution," says Curran. "Sometimes a key piece of work in a project is carried out at bench level by undergraduates." At any level, he adds, "we want the best and the brightest, with ideas, energy, and commitment. We'll hunt worldwide to identify the skill sets we need."

Curran seeks one characteristic in all recruits. "Communication skill is absolutely critical," he explains. "I've always felt that breakthrough observations come in the gaps between disciplines. Many people who have never had science training don't really understand what we do and why we do it. Explaining that is a role of AACR."

Adds Curran: "This is the most terrific time to move into

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FREDERICK, Maryland: David Garfinkel, senior investigator at the NCI-Frederick Cancer Research and Development Center, identifies three hot topics in current cancer research. "One area is trying to understand networks of gene function and to make connections among different genes at a global or genomic scale," he says. "Another is a return to basic cell physiology — a subject that everybody ignored because of the focus on the gene. Finally, there's a general feeling that multidisciplinary interactions need to take place. Scientists who never really thought that they would talk to each other, like a yeast geneticist and a robotics expert, will find common ground. Interactions among biologists, chemists, physicists, and engineers are going to be huge."

Garfinkel's own laboratory is undertaking studies of genome instability in the bakers' *Saccharomyces cerevisiae*. In particular, the laboratory is studying the interactions between yeast and a transposable element known as Ty that resembles retroviruses such as HIV. "There are marked similarities between our elements and the HIV virus," explains Garfinkel. "We try to compare and contrast aspects of their life cycles to learn about both classes of elements. In effect we are using the yeast, which is easy to manipulate, as a model for HIV replication and host defense."

The postdoctoral fellows whom he routinely trains come from a wide variety of disciplines. "Some of them have never even seen or had any experience of microbial genetics," he says. "We

take anybody with sound training in basic science and expose them to fundamental problems in eukaryotic genetics and molecular biology, using yeast as a model."



Qualifying for one of the five to seven postdoctoral positions available annually in his laboratory demands strong scientific ability and some intangibles. "In addition, communication skills, both verbal and written, are important," says Garfinkel. "So is 'scientific aggressiveness' — being able to seize a problem, focus on it with a certain obsession, and carry it through to publication." Scientists who possess such aggressiveness, Garfinkel says, generally "have a clear idea of what they want to do in my lab and some vision of where they see themselves going in their careers."

The same qualities equip scientists for good positions in cancer research. "Show real productivity as a graduate student, in terms of first-author publication in as good a scientific journal as you can get your work into," advises Garfinkel. "Develop the abilities to think independently, to interview, and to communicate well. And come in with an idea how you want to develop your career. A successful postdoctoral experience generally results from a strong partnership between the trainee and the mentor, and sometimes other members of the laboratory."



HOUSTON, Texas: "Over the past four years, our laboratory has emphasized two areas of research," says Gary Clayman, director of research for the Department of Head and Neck Surgery at The University of Texas M.D. Anderson Cancer Center.

"We have sought to define genes involved in the initiation and progression of head and neck cancer by comparing cancer cells and nonmalignant cells from the same patient at the messenger RNA level. We have also focused on discovering systemic novel therapies that target directly to the cancer."

For this work, Clayman recruits Ph.Ds, M.D/Ph.Ds, and M.Ds as postdoctoral fellows with a spectrum of skills. "Each brings different strengths to the laboratory," he points out. "For example, one of the genes we recently discovered is a novel proteinase inhibitor. So I need a postdoc with a significant background and interest in protein chemistry. A couple of years ago, that person wouldn't have been a good fit in our laboratory. Additionally, our cancer gene discovery efforts are ongoing, and the potential opportunities for individuals with molecular biology expertise, interest, and drive are enormous."

These experiences illustrate the type of cooperation and breadth of scientific understanding at the individual level necessary to undertake effective cancer research. "Cancer research

requires a foundation of individuals with really sound clinical and scientific training who are actively involved in both disciplines, so that they understand both sides of the fence," says Clayman. "That's very hard to do. You have to perform outstandingly in both fields to be treated as an equal."

All scientists require intellectual and reasoning ability and a strong scientific background and work ethic. But scientists in cancer research also need more intangible qualities. "You have to be a good communicator, with both written and verbal skills," says Clayman. "You have to be able to work with people in multiple disciplines and share knowledge. Clinicians frequently fail in this work because they don't understand the importance of interactions that can happen in the corridors, the library, and the laboratories. Having someone's new and different vantage point can shed light on your own work. Novel thinking is spurred by scientific interactions in the labs and symposia. And it's most beneficial to question conventional wisdom."

Clayman advises students who want to participate in cancer research to select carefully where and with whom they do their training. "Choose mentors and colleagues with whom you have a good fit," he suggests. "Make sure that the institution has an adequate foundation to meet your needs. The whole package needs to be there for you to be successful."

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The Department of Molecular Medicine in the College of Veterinary Medicine at Cornell University invites applications and nominations for an outstanding scientist and leader for the position of chairperson. The department has internationally recognized research programs in a variety of areas of cellular signal transduction, molecular oncology, and neurotransmitter receptor structure and function, and attracts a talented pool of graduate students and postdoctoral associates. It occupies extensive laboratory space in a new state-of-the-art research building, with major interactions with clinical and biomedical research programs within the Veterinary College, as well as with the other basic science departments on the Cornell Ithaca campus. The successful candidate will be expected to provide leadership to a department currently comprised of 13 professorial faculty, with approximately 60 graduate students and postdoctoral associates, and to shape the interface between the Department of Molecular Medicine with the new comparative Cancer Program within the Veterinary College, as well as with other new initiatives on campus including Genomics, and Chemistry and Chemical Biology. Required qualifications should include an advanced degree (DVM, MD and/or Ph.D. degree) and an outstanding record in research, a strong commitment to teaching and service, and demonstrated leadership skills. Applications from women and minorities are strongly encouraged. Screening of applications will begin immediately and will continue until the position is filled. Interested individuals please send letter of interest, curriculum vitae, and the names of three referees who may be contacted by the Search Committee. **Direct applications and questions to: Search Committee for Molecular Medicine, College of Veterinary Medicine, C3-139 VMC, Cornell University, Ithaca, NY 14853.**

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Cell Genesys is committed to the development and commercialization of cancer vaccines and other gene therapies to treat major life-threatening diseases, such as cancer, hemophilia and cardiovascular disease. Our broad portfolio of proprietary gene delivery technologies and clinical-stage product development programs have helped to position Cell Genesys as a leader in gene therapy and in the future of medicine. Make gene therapy a reality. Make the change to Cell Genesys.

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SCIENTIFIC R&D/CLINICAL

We are continually seeking talented individuals with backgrounds in the life sciences, including molecular biology, cellular biology, biochemistry, virology, gene therapy and chromatography. Our current openings include:

- **DIRECTOR, MOLECULAR VIROLOGY** – Responsible for research programs focused on development of gene transfer, gene expression and protein engineering technology.
- **SCIENTISTS**
Anti-angiogenesis Gene Expression
AAV Vectors
Cancer Biology
Vector Purification
- **DIRECTOR, REGULATORY AFFAIRS** – Exciting new position to take a leadership role in the clinical development of new viral vector systems.
- **DIRECTOR, PROJECT MANAGEMENT** – Requires direct project management experience.

MANUFACTURING/QUALITY

Due to our expanding viral vector program, we also have opportunities in our manufacturing and QA/QC departments for professionals with scientific expertise and strong knowledge of regulated manufacturing for the biotechnology/pharmaceutical industry. We have immediate needs for the following:

- **SENIOR QUALITY CONTROL ANALYSTS/
BIO-ANALYST** – Microbiological assay and analytical techniques (i.e., PCR, ELISA, and HPLC).
- **MANAGER, QUALITY COMPLIANCE** – To aid expansion to Phase III manufacturing.
- **ASSOCIATE DIRECTOR, MANUFACTURING** – Manage viral vector and cancer vaccine cell fermentation and purification.
- **SUPERVISOR, MANUFACTURING**

For more information on these and other job opportunities, please visit our website at

www.cellgenesys.com

Cell Genesys is dedicated to developing important human healthcare products in gene therapy. We are equally committed to those who make up our team, and we provide our employees with excellent salaries and a full benefits package. To learn more, please forward your CV/resume/written inquiries to: **CELL GENESYS, INC., Attention: Human Resources, 342 Lakeside Drive, Foster City, CA 94404. FAX (650) 349-4785. Or email your resume to HR@cellgenesys.com.** We are an equal opportunity employer.



CELL GENESYS

The Jackson Laboratory



The Jackson Laboratory is an independent, not-for-profit mammalian genetics research institution, a major resource for the research community and a center for training in mammalian genetics. Designated a Basic Cancer Center by the National Cancer Institute, the Laboratory offers its more than 30 principal investigators the opportunity to conduct basic research in an interactive environment with excellent collaborative opportunities, unparalleled mouse and genetic resources, and an outstanding shared scientific services program.

STAFF SCIENTISTS

The Jackson Laboratory is currently recruiting faculty members in Cancer-genetics and Computational Biology. The successful applicant should have a Ph.D., M.D., or D.V.M., Postdoctoral Training, a record of research excellence, and be able to initiate a competitive independent research program. **Applicants for Staff positions should cite ad S-03 and send a curriculum vitae, statement of research interests and the names of at least three references to The Director's Office: The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04609 or e-mail: rsp@jax.org.**

THE LABORATORY OFFERS:

- **Excellent Collaborative Opportunities** - An interactive staff with ongoing research in Cancer, Developmental Biology and Aging, Genomics, Hematology and Immunology, Metabolic Diseases, Neurobiology and Sensory Deficits, and Bioinformatics/Computational Biology.
- **Unparalleled Mouse and Genetic Resources** - Over 2,000 genetically defined JAX mouse strains are available, DNA Mapping Panel Resource, Cytogenetic Models Resource, Genetic Information Resource, Mouse DNA Resource, Mouse Genome Database, and Gene Expression Information Resource.
- **Outstanding Shared Scientific Services** - Equipped with state-of-the-art technology, staffed by personnel trained in Biological Imaging, Cell Biology, Flow Cytometry, Microchemistry (including DNA sequencing, allele typing, expression profiling and protein services), Transgenic and Targeted Mutant Preparation, Multimedia Services and Research Computing.
- **Major Meeting Center** - The Jackson Laboratory hosts a series of conferences featuring the mouse as a model for human disease, and several courses, most notably, the annual Short Course in Medical and Experimental Mammalian Genetics.
- **Grants Management Support** - Our research is supported largely by Federal grants and/or private funding to individual principal investigators. A highly qualified staff is available to aid in grant preparation and submission.

POSTDOCTORAL TRAINING

The Jackson Laboratory has a coordinated training program that provides broad experience in the skills necessary to fulfill the emerging and growing needs of academic and industrial programs in mammalian genetics and genomics. In addition to carrying on independent research projects and improving their oral and written presentation skills, participants gain wider experience in the principles and practices of mammalian genetics, analysis of complex traits, genomics and positional cloning, bioinformatics, and the essentials of animal husbandry through a series of on-site courses, workshops, seminars, and laboratory programs. **Applicants for Postdoctoral Training positions should cite ad PD-03 and send a curriculum vitae, statement of research interests and the names of at least three references to The Training Office: The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04609 or e-mail: sbs@jax.org.**

THE JACKSON LABORATORY is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, oceans, forest, lakes, and trails are all within walking distance.

The Jackson Laboratory is an EOE/AA Employer

<http://www.jax.org>

Full Time Research Position in Head and Neck Surgery

The Department of Head and Neck Surgery at The University of Texas M. D. Anderson Cancer Center is accepting applications for full time Post-Doctoral Fellows and Research Associates in Head and Neck Surgery. Candidates must have a PhD and preferably at least one year post doctorate experience.

The position will be responsible for performing experiments on the molecular biology of head and neck cancer, assisting in the new and improved techniques relevant to the research. The position will supervise research technical staff and develop and maintain independent research programs in an academic setting. Please send a current curriculum vitae to:

Gary L. Clayman, MD, Director of Research
U.T. M.D. Anderson Cancer Center
Department of Head and Neck Surgery
1515 Holcombe Blvd. - Box 69
Houston, TX 77030

*The University of Texas M. D. Anderson Cancer Center
is an equal opportunity/affirmative action employer.
Women and minority candidates are
encouraged to apply.*



MAYO CLINIC POSTDOCTORAL FELLOWSHIP IN STRUCTURAL BIOLOGY

An NIH-funded postdoctoral fellowship is available for an American Citizen or a permanent U.S. resident to perform structural studies of novel Sp1-like transcriptional repressor proteins. This position will be part of an intense collaborative effort among biochemists, molecular biologists, and structural biologists. Applicants should be a competent structural biologist. Experience in NMR, biochemical analysis of protein-DNA interactions, and/or protein crystallization are desirable. Send a curriculum vitae, a description of research experience, and three academic references to:

Raul Urrutia, MD/Franklyn Prendergast, Md, PhD
Mayo Clinic
Alfred 2-435
200 First Street SW
Rochester, MN 55905
Fax: 507/255-6318
E-mail: urrutia.raul@mayo.edu

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Baylor Institute for Immunology Research

The Baylor Institute for Immunology Research (BIIR) located in Dallas, Texas brings together basic scientists and clinicians in a synergistic effort to increase understanding of how the immune system works. The Institute is devoted to applying basic discoveries about the immune system into effective treatments.

BIIR has several post-doctoral fellowships available in the following domains:

- **Analysis of murine DC subset functions (PI: B. Pulendran, Ph.D.)**

The long-term goal is to establish whether manipulation of DC subsets can alter Th1/Th2 mediated diseases. Desired expertise: murine disease models.

- **Genetic alterations of human DC subsets (PIs: M. Zadeh, Ph.D., K. Palucka, M.D., Ph.D.)**

We are analyzing the most efficient viral vectors to transduce human DC to elicit strong immune responses specific for the transgene. Desired expertise: gene therapy, human cellular immunology.

- **Establishment of tumor immunity using human DC (PI: K. Palucka, M.D., Ph.D.)**

Several openings are available. A strength of the Institute is the ongoing program of vaccinating patients with DCs loaded with various tumor antigen preparations. Desired expertise: human cellular immunology, T cell biology.

- **Induction of immune responses by DC subsets in vivo in humans (PIs: B. Pulendran, Ph.D., K. Palucka, M.D., Ph.D.)**

The goal is to study the immune responses in healthy human volunteers injected with either (1) cytokines known to mobilize different DC subsets or (2) antigen-loaded DC subsets. Desired expertise: human cellular immunology, T cell biology.

- **Role of dendritic cells in the pathophysiology of lupus (PIs: V. Pascual, M.D., K. Palucka, M.D., Ph.D.)**

We are currently exploring how the DC, which can regulate B cell functions, contribute to the pathophysiology of human systemic lupus erythematosus. Mouse models are also considered. Desired expertise: human cellular immunology, T and B cell biology.

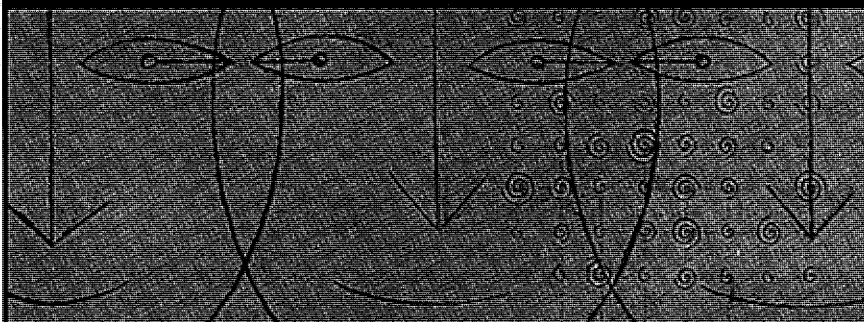
- **Characterization of germinal center B cell genes (PI: V. Pascual, M.D.)**

We have isolated several genes highly specific to human germinal center B cells. We are currently studying their pathophysiological role. Desired expertise: molecular biology, B cell biology.

Send applications to: **Jacques Banchemau, Ph.D., Baylor Institute for Immunology Research, 3434 Live Oak, Suite 205, Dallas, TX 75204 USA**

Tel: (214) 820-7450 Fax: (214) 820-4813 e-mail: j.banchemau@baylordallas.edu

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DIRECTOR

Ligand Identification

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Synthetic Chemistry

RESEARCH ASSOCIATES

Molecular Biology

SENIOR SCIENTISTS

In Vitro Metabolism

Array Profiling Development

SCIENTISTS

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Join us in building the biopharmaceutical company of the future at our Cambridge facilities. Please respond by sending only one resume using only one of the following methods, indicating the positions you are interested in. Mail your resume to: Millennium Pharmaceuticals, Resume Processing Center, Source Code SC33100, PO Box 798, Burlington, MA 01803. Email: millennium@webhire.com. Fax: (800) 370-6925. A source code must be included with all submissions. We are an equal opportunity employer committed to discovering the individual in everyone.

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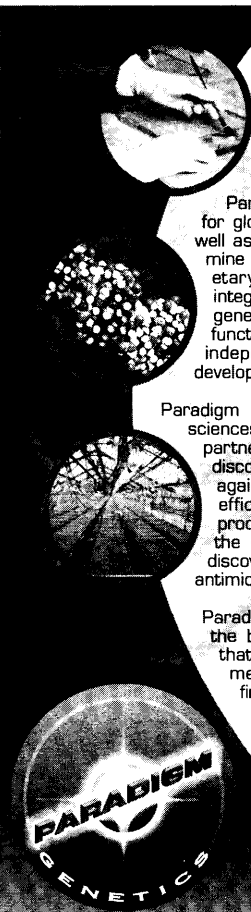
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Paradigm Genetics, Inc. is harnessing the power of biology for global crop production, nutrition, and human health. As well as using functional genomics and bioinformatics to determine gene function, the Company has established a proprietary plant functional genomics system (AgDB) that integrates gene discovery, gene function determination, and gene use identification. Paradigm will be the world leader in functional genomics for agriculture by developing products independently and by joining in alliances with multiple development and commercialization partners.

Paradigm has attracted the majority of the world's largest life sciences companies as partners and potential partners. These partners are working with the Company in such areas as: discovering better and safer compounds to protect crops against weeds, diseases, and insect pests; developing more efficacious and environmentally-friendly plant nutrition products; improving the quality of seed germplasm through the development of more efficient breeding tools and the discovery of new and valuable genes; and discovering novel antimicrobial compounds for human use.

Paradigm offers you the opportunity to put science to work for the benefit of the environment and for humanity in a way that's never been done before. Our entrepreneurial environment gives you the chance to make a contribution from the first day, working along side the top scientists in the field. We are located in the progressive Research Triangle Park, situated between Raleigh, Durham and Chapel Hill in North Carolina. This unique location provides unparalleled access to world-class educational resources, diverse and rich cultural opportunities, excellent medical care, and a high standard of living. In addition, the Triangle is just a few hours drive from North Carolina's beautiful beaches and majestic mountains.

Group Leader, DNA Sequencing Group

As a Group Leader you will be directing a team of highly skilled scientists who are all focused on providing high-quality DNA sequence using the latest technologies. The DNA Sequencing Group is an integral part of the DNA Technologies Department and the Group Leader must interface with other managers both within and outside of the Department. The DNA Sequencing Group is committed to staying at the cutting edge of sequencing technologies and the Group Leader will be responsible for investigating and implementing new approaches while maintaining a constant throughput based on existing platforms. There are a wide variety of projects that the DNA Sequencing Group must accommodate and the Group Leader should possess experience in both EST and genomic shotgun/finishing projects. Management experience, preferably in a high-throughput industrial/academic laboratory is a must. A Ph.D. in the biological sciences and extensive experience in molecular biological techniques are essential. **Job number DNA/MAR/SCI/244D**

Upcoming Job Opportunities

Scientists are needed in Assay Development, BC Profiling, Gene Expression Profiling, DNA Sequencing, Mutant Generation, Plant Growth & Maintenance, Plant Physiology, Plant Transformation and Plant Technology Development. We will also have openings in our Informatics and Bioinformatics department for an Algorithms Group Leader, LIMS Programmers (one for our DNA Technology group and one for the Biochemistry group).

Successful candidates will be offered an excellent salary and benefits package including a stock option program and the opportunity to lead the research of a globally recognized genomics company. For consideration, submit a resume and cover letter to **Human Resources, Paradigm Genetics, Inc., P.O. Box 14528, RTP, NC 27709**; or E-mail: resumes@paragen.com (MS Word or RTF only). No faxed resumes will be accepted. No phone calls please. Principals only. EOE

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Senior Research Scientist II, Molecular Biology

The successful candidate will be responsible for recombinant expression of bacterial protein antigens utilizing a variety of prokaryotic expression systems. This will involve optimization of expression levels by testing different promoter systems, host strains, chaperone plasmids, etc. Evaluation of new technologies is also required. To qualify, you must possess a Ph.D. in Molecular Biology, Microbiology, or a related discipline with at least 5 years' experience. A strong background in prokaryotic expression systems is essential. Familiarity with Microbial Physiology is a plus.

Scientist I/II (Depending On Experience), Molecular Biology

The ideal candidate will provide DNA sequencing, synthesis and PCR support for numerous bacterial vaccine discovery programs. Requirements include a BS degree in Molecular Biology, Biotechnology or the equivalent. Expertise with automated DNA sequencing and oligonucleotide synthesis is advantageous.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, child-care subsidies, flex-time, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth-Lederle Vaccines, Attn: Human Resources, 211 Bailey Road, West Henrietta, NY 14586-9728.**

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Research Positions

MOLECULAR ONCOLOGY

A Research Associate position and a Post-Doctoral Assistant position are available in the Molecular Oncology laboratory at the American Health Foundation, located in Valhalla, New York on the campus of the Westchester Medical Center.



Programs focus on molecular mechanisms of cell cycle regulation, cell cycle checkpoint and oncogenesis.

Candidates with a Ph.D. and/or M.D. degree in Biological Sciences and having strong backgrounds in cellular and molecular biology are encouraged to apply.

Salaries are commensurate with experience, but competitive. Please send curriculum vitae and names of three references to:

Dr. Wei Dai
American Health Foundation
One Dana Road
Valhalla, New York 10595
or Email wei_dai_ny@yahoo.com

EOE M/F/D/V ADA

ACADIA Pharmaceuticals Inc.
3911 Sorrento Valley Blvd.
San Diego, CA 92121
EOE



ACADIA Pharmaceuticals A/S
Fabriksparken 58
DK-2600 Glostrup, Denmark
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ACADIA Pharmaceuticals Inc. (www.acadia-pharm.com) is a drug discovery company that integrates proprietary high-throughput (HT) pharmacology and genomic technologies to accelerate the identification of compounds that selectively regulate neural function. Internal research is focused on schizophrenia, Alzheimer's Disease, depression, orphan GPCRs, and feeding disorders. Corporate headquarters and biological research are located in San Diego, California (CA); chemistry research facilities are located near Copenhagen, Denmark (DK).

The following **Team Leader** and **Senior Scientist** positions are available. These positions require a Ph.D. or equivalent, relevant postdoctoral training, and an outstanding record of productive scientific research. In addition to scientific achievement, Team Leaders should also have experience in independently managing a successful research team.

Cell-Based Assay Development (CA): The appropriate candidates will have broad experience with cell-based functional assays. In addition to tissue culture experience, the ideal candidates will possess strong molecular biology skills and familiarity with signal transduction and pharmacology.

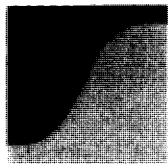
Computational Chemistry (CA): These positions require a background in small molecule/ligand based design and analysis of HTS data utilizing QSAR and/or library analysis techniques.

Medicinal/Synthetic Chemistry (DK): Experience in medicinal/synthetic chemistry and HT solution or solid-phase synthesis to generate CNS-active small molecules is required.

Molecular Pharmacology (CA): These candidates will have significant experience in molecular genetics and molecular pharmacology. The successful candidate(s) will lead/aid groups seeking novel treatments for neuropsychiatric disease.

Ultra High-Throughput Screening (CA): These positions require several years of experience in industrial HTS or uHTS drug discovery research. Cell-based assay development, automation, HT data handling software, and HT pharmacology experience preferred.

Research Associate positions are also available in the areas listed above. Based on level of experience, the appropriate candidates will design, perform, and analyze results of experiments. They may also investigate, create and develop new methods and techniques applicable to ongoing research and should be able to work with varied levels of supervision. B.S. degree or equivalent experience required.



ACADIA Pharmacogenomics Inc.
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ACADIA Pharmacogenomics Inc. is a wholly-owned subsidiary of ACADIA Pharmaceuticals Inc. providing pharmacogenomic services to the pharmaceutical industry for improved drug development and clinical trials. Research focuses on functional analysis of SNPs in drug target genes and examination of their role in predicting individual variation in clinical response to therapeutics.

The following **Team Leader** and **Senior Scientist** positions are available. These positions require a Ph.D. or equivalent, relevant postdoctoral training, and an outstanding record of productive scientific research. In addition to scientific achievement, Team Leaders should also have experience in independently managing a successful research team. Preference will be given to those with a strong background in CNS research, with particular emphasis on GPCRs, neurotransmitter receptors and transporters.

Pharmacogenomics: These candidates will have significant experience linking molecular genetics and molecular pharmacology. The successful candidates will also have a background in the analysis of genes associated with drug response and disease.

Molecular Biology: These positions require outstanding molecular cloning expertise, including experience with cloning genes using HT-PCR and RT-PCR as well as knowledge of identifying and characterizing SNPs and familiarity with public and private DNA databases.

Research Associate positions are also available in the areas listed above. Based on level of experience, the appropriate candidates will design, perform, and analyze results of experiments. They may also investigate, create and develop new methods and techniques applicable to ongoing research and should be able to work with varied levels of supervision. B.S. degree or equivalent experience required.

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SENIOR SCIENTIST - Immunology

Ph.D. with 5 years industry experience in viral and/or tumor immunology, with expertise in vaccine development. Proficient in animal models of cancer and/or viral infections and all current analyses of humoral and cellular immunity, including MHC tetramer assays, intracellular cytokine staining and ELISPOT.

For the above positions, experience working within a U.S. pharmaceutical company is preferred. We offer excellent benefits & generous stock programs. For immediate consideration, qualified candidates may send CV with salary requirements, indicating position desired to:

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Fax: 914-789-2863
E-mail: hr@progenics.com
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Manager

Protein Purification Development

Duties include leading a group of approximately 10 Scientists and Research Associates in the Protein Purification Development group in the development of cost-effective, robust and scalable processes for the purification of a large variety of recombinant proteins. Requires PhD in Biochemistry or related field with a minimum of 7+ years of relevant experience in the biotechnology or pharmaceutical industry, hands-on experience in recombinant protein purification including laboratory and process scale chromatography, ultrafiltration, centrifugation, etc. Knowledge of protein chemistry and protein characterization methods. Excellent laboratory, communication, problem solving and people skills are required. (Job Code M/90)

Group Leader Cell Culture

Duties include leading an existing mammalian cell culture group responsible for developing medium to large scale cell culture processes for recombinant protein production. Requires PhD in Cell Biology or related field with 2-5 years experience in mammalian cell culture techniques, bioreactor systems, recombinant protein expression and media optimization. Excellent communication skills, lab management experience and knowledge of cGMP regulatory requirements are also desired. (Job Code M/75)

Scientist

Duties include recombinant protein purification and refolding from bacterial, mammalian and insect cells. Requires PhD or BS/MS with 8+ years in protein chemistry or related field. Relevant experience in the biotechnology or pharmaceutical industry and familiarity with process scale chromatography are preferred. Excellent laboratory, communication, problem solving and people skills as well as knowledge of cGMP are required. (Job Code SCI/90)

Scientist

Duties include studying the biology and developing bioassays for cytokines involved in developmental biology and neurobiology. Requires a PhD in biology or biochemistry with 0-2 years research experience in cell biology, developmental biology or related field. Excellent laboratory, communication, problem solving and people skills required. (Job Code SCI/76)

Candidates wishing to be considered for these positions please submit your curriculum vitae or resume to:

R&D Systems, Inc.
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614 McKinley Place NE
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hr@rnds.com
No Agencies Please
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MS Research Associate

MS degree in Molecular Biology or Biochemistry; 5-9 years of experience and knowledge of immunologic techniques and cloning required to become involved in translational research. Industry experience and strong communications skills desired. **Job Code: XHXDD0063**

BS/MS Research Associate

BS/MS degree in Molecular Biology or Biochemistry; 4-6 years experience; and knowledge of standard laboratory methods and cloning needed. Familiarity with Bioinformatic techniques and strong communication skills required for team interaction. **Job Code: XHXDD0062**

Clinical Research Monitors

Responsibilities include identification of new sites, grant management, case report form and protocol development, initiation activities, data handling, source document verification, GCP and regulatory compliance with all aspects of protocol. You will monitor clinical studies at site. BS/MS in Life Sciences or Nursing and 5-7 years clinical research/pharmaceutical industry experience (3 years of direct site monitoring) needed. Must be willing to travel a minimum of 35-50% as required. **Job code: XHXC9948**

For additional information or to apply online visit our web site at www.sp-research.com

We offer an excellent compensation package that includes a competitive salary, a cash incentive bonus program, comprehensive benefits, profit sharing and 401(k). For prompt, confidential consideration, we invite you to forward your resume which MUST include the Job Code for your position of interest to: **E-mail: sprisc@isearch.com or send to: Human Resources-DP, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300.** We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



Schering-Plough
Research Institute

Using Science for Human Advantage

CURAGEN's rapid growth has created exceptional career opportunities. We have openings for individuals with strong backgrounds in molecular biology, biochemistry, engineering, bioinformatics and medicine. Successful CuraGen employees are exceptionally well organized, have an entrepreneurial spirit, a passion for their work, and thrive in a challenging, team environment. We are currently seeking highly driven individuals for the following positions:

General Manager / Technology Development

We are looking for an exceptional engineer and manager with proven track record building and leading a team of engineers, software developers and molecular biologists. Must have mastery of the DNA analysis field, and manage both internal and external resources. Successful product development experience required. Job Code: 046-00

Instrument Development

You must have a strong track record developing instrumentation for DNA analysis. Expertise in liquid handling, optics and computer control, as well as familiarity with microfabrication methods is required. M.S./Ph.D. Engineering required. Job Code: 047-00

Molecular Biology Methods

We are looking for a Ph.D. Biochemistry/Biology with a 4+ year track record of DNA methods development. Encyclopedic knowledge of molecular biology protocols and methods, as well as multiple related publications. You must have extensive knowledge of the gene expression analysis field and strong quantitative skills. Job Code: 048-00

*Please send cover letter, resume /
CV and 3 letters of
recommendation.
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It's our solid dedication, vision and constant search for answers that allow us to touch millions of people around the world every day. As a major division of Fortune 500 American Home Products Corporation, we help people lead healthier lives through the development of innovative pharmaceutical, vaccine and nutritional products. We achieve this through our superior research, manufacturing, sales and marketing capabilities. Enjoy the freedom to develop your own career while having the support of a valuable team.

Neuroscience Princeton, NJ

Behavioral Pharmacology

Experience with Behavioral Pharmacology in models of depression, anxiety, schizophrenia or cognition is essential. Strong analytical, computer and communication skills are also required. A background in transgenics/knockouts, stereotaxic surgery and/or histology is highly desirable. BS/MS in Neuroscience, Psychology, Pharmacology, Animal Behavior or a related field with up to 10 years' relevant experience or a Ph.D. with up to 2 years' relevant experience is required.

Neurochemistry

Expertise in in vivo models of neurochemistry/neuropharmacology and training in in vivo microdialysis, electrophysiology and/or voltammetry is required. A good background in modern HPLC techniques (ECD and fluorometric detection) and histological techniques is also essential, along with strong analytical, computer and communication skills. Must have a BS/MS in Pharmacology, Neurochemistry, Biochemistry or a related field and up to 8 years' relevant experience, or a Ph.D. with up to 2-3 years' postdoctoral experience.

Neuropharmacology

Knowledge in one or more of the following: receptor binding, neurotransmitter transport, protein biochemistry, in situ hybridization, and functional in vitro assays is required. Expertise in cell/tissue cultures, biochemical instrumentation, immunohistochemistry and/or radioimmunoassays is a plus. Excellent computer skills a must. BS/MS in Pharmacology, Neurochemistry, Biochemistry or a related field with up to 10 years' relevant experience is required. Also seeking candidate with a Ph.D. with up to 2 years' relevant experience.

Molecular Biology

Experience in molecular biology, gene and protein expression, biochemistry, tissue culture, reporter systems, cell models, receptor signaling and signal transduction pathways is essential. A strong understanding in neurobiology is a plus, as well as an aptitude in protein-protein interaction techniques. Exceptional communication skills are required. You will be responsible for researching heterotrimeric G-proteins involved with G-protein coupled receptor signaling (GPCRs). A Ph.D. in a relevant scientific discipline and 0-2 years' experience is required.

Electrophysiology

Knowledge of electrophysiological techniques used in the study of ion channels is a must. Practice with one or more of the following techniques is also essential: patch-clamp recordings on transfected cell lines or neurons, in vitro brain slice recording or Xenopus oocyte techniques. A strong background in Neuroscience is highly desirable. Expertise with basic molecular biological techniques is advantageous. BS/MS with 2-4 years' relevant experience is required.

Wyeth-Ayerst offers competitive compensation and benefits programs. Please forward your resume with salary requirements, referencing **Job Code: OPSCI** to: **Wyeth-Ayerst, P.O. Box 7886, Philadelphia, PA 19101-7886.** **Fax in fine mode to: (610) 989-4854.** E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume).

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Chair of Microbiology

THE GEORGE WASHINGTON UNIVERSITY

The School of Medicine and Health Sciences seeks a dynamic leader to direct a significant expansion of the **Department of Microbiology** as a result of the recent formation of a separate Department of Immunology. The successful candidate will be an internationally recognized scientist with an outstanding record of extramurally funded research in the field of **Microbial Pathogenesis**. Areas of particular interest include emerging infectious diseases, functional genomics and molecular microbiology. The Chair will be responsible for recruiting a number of research-active tenure-track faculty to the Department, and will oversee teaching of the medical and graduate students by departmental faculty. Competitive salaries and start-up funds are available for all new positions. A large, state-of-the art **P3 containment facility** and a transgenic animal facility are available.

The **George Washington University Medical Center** campus, situated five blocks from the White House, includes the School of Medicine and Health Services, the School of Public Health and Health Services and a tertiary care teaching hospital. Unique opportunities exist for collaborative projects with experts in the fields of applied microbiology, clinical infectious diseases, health policy and epidemiology. The School of Medicine has formal ties with major research institutions in the Metro DC area. These include **Children's Research Institute** of the Children's National Medical Center, the **Holland Laboratory** of the American Red Cross, and **The Institute for Genomic Research (TIGR)**, all members of the George Washington Institute for Biomedical Sciences through which GWU offers predoctoral training. It is anticipated that new Microbiology faculty will have substantial interactions with their colleagues at TIGR, a world leader in microbial genomics. Close ties are also enjoyed with the nearby NIH Research Campus.

Applicants with a Ph.D. and/or M.D. degree should submit a curriculum vitae with complete bibliography and funding history, a detailed statement of research and leadership accomplishments, and the names, addresses and telephone numbers of at least three references to:

Prof. Vincent A. Chiappinelli, Chair of Search Committee,
Department of Pharmacology,
The George Washington University Medical Center,
2300 I Street, N.W., • Washington, D.C. 20037.

Review of applications will begin on May 1, 2000, and continue until the position is filled.

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Francisco
Bay Area

Biostatistics/ Bioinformatics

Metabolex, Inc.

is a privately-held biotechnology company focused on the discovery and development of novel therapeutics for the treatment of diabetes and related metabolic diseases. We currently have an excellent opportunity for an experienced, self-motivated professional to join our Biostatistics and Bioinformatics team.

In this key role, you will analyze complex oligonucleotide array-based expression studies, conduct data mining to support ongoing gene discovery efforts, and assist scientists with statistical design and the interpretation of various research experiments. Candidates must possess demonstrated experience with computational statistics and data analysis; hands-on experience with statistical analysis and the mining of array-based gene expression data; familiarity with sequence similarity searching and remote homology detection; proficiency with SQL, GCG and a scripting language (PERL); and excellent organizational and written/verbal communication skills.

We offer an excellent compensation and benefits package, including 401k and stock options. Please forward cover letter and resume to: Metabolex, Inc., HR Department, Attn: Job# S0331-SBB, 3876 Bay Center Place, Hayward, CA 94545; fax: (510) 293-6853; email: dpetty@metabolex.com. EOE m/f/d/v



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GENETIC EPIDEMIOLOGIST

- Tenure Track Position -

The Marshfield Medical Research Foundation seeks applications for a tenure track position in the field of genetic epidemiology. Both new and more established investigators are welcome to apply.

Candidates must hold a doctorate degree in statistics, genetics, epidemiology or related field. At least 2 years postdoctoral experience preferred.

Marshfield boasts a rapidly growing, vibrant research environment with strong programs in both genetics and epidemiology. Send curriculum vitae and the names of three references to:

Mary Treichel
Marshfield Clinic
1000 North Oak Avenue
Marshfield, WI 54449

1-800-782-8381, extension 1-9774
Fax 715-221-8779

E-mail: treichel@marshfieldclinic.edu
 Website: www.marshfieldclinic.org



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POSTDOCTORAL FELLOWSHIP

A postdoctoral position is available immediately to investigate the mechanism and consequences of Ty element retrotransposition in *Saccharomyces cerevisiae*. These mobile genetic elements are structurally and functionally related to retroviruses and are widely dispersed in nature. We are interested in host genes that modulate Ty transposition, the mechanism of Ty virus-like particle formation, reverse transcription, integration, copy-number control in naive strains lacking Ty elements, and creating functional HIV/Ty hybrids. Candidates should be experienced in molecular and cell biology. Previous training in yeast genetics is helpful but not essential.

The position is part of the Division of Basic Sciences of the National Cancer Institute and is located at the Frederick Cancer Research and Development Center in Frederick, MD. The National Institutes of Health is an equal opportunity employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, marital status, physical or mental disability, age, sexual orientation or membership or non-membership in an employee organization. Salary range for this position is \$31,500-\$38,020.

Interested candidates should submit a CV and the names of three references to:

David J. Garfinkel, PhD
Gene Regulation and Chromosome Biology Laboratory
Building 538, Room 152J
NCI-Frederick Cancer Research and Development Center
PO Box B
Frederick, MD 21702-1201

Your CV and names of references also may be faxed to 301-846-6911 or e-mailed to garfinke@mail.ncifcrf.gov.

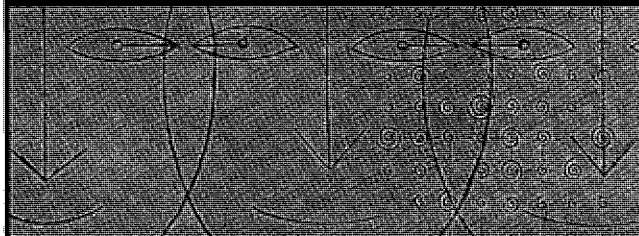


DEPARTMENT HEAD Department of Veterinary Physiology, Pharmacology and Toxicology

The Louisiana State University School of Veterinary Medicine, Dept. of Physiology, Pharmacology and Toxicology (http://www.vetmed.lsu.edu/Veterinary_Physiology_Pharmacology_and_Toxicology.htm), invites applications and nominations for the position of department head. The department, one of six academic departments, presently consists of nine full-time faculty members, three part-time faculty members, 12 adjunct faculty, and nine graduate students. The department has varied research activities in physiology, pharmacology and toxicology, and offers the M.S. and Ph.D. degrees in all three disciplines. Research facilities include aquatic species laboratories, an inhalation toxicology facility and an analytical chemistry laboratory. The department maintains affiliations and collaborative research with the Pennington Biomedical Research Center, the Biodynamics Institute and various other academic departments on the LSU campus, as well as with local private petrochemical industries. The successful candidate must be a dynamic leader, with demonstrated success in independently funded research, an established scholarly reputation as a teacher, and a background of academic leadership. The candidate must have credentials suitable for appointment as full Professor and full membership on the graduate faculty. The position requires a Ph.D. degree in physiology, pharmacology or toxicology; and in addition, a D.V.M. degree and applicable board certification are desirable. Responsibilities for the position include providing academic and administrative leadership for the department, facilitation of faculty professional development, maintenance of an environment of scholarly excellence, direction of teaching and research, and responsible fiscal stewardship of the department. Nominations and applications, along with a curriculum vitae, the names of 3 references, and a brief statement of administrative and teaching philosophies, should be sent to: Dr. H.W. Taylor, VPT Search Committee, School of Veterinary Medicine, Ref. Log# 000671, Louisiana State University, Baton Rouge, Louisiana 70803. Applications will remain open until April 15, 2000, or until candidate is selected.

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DIRECTOR, SNP PHARMACOGENOMICS

We seek a demonstrated leader who will understand and create a vision of what SNP discovery and genotyping will be for Millennium and the future. You will focus on oncology, central nervous system, and cardiovascular disease areas and have a vision of the magnitude of these endeavors, as well as identify populations in each disease sector. You will also identify candidate genes to be analyzed, ascertain the SNP discovery and genotyping paradigm, and determine a format for delivery and design of a system for commercialization. Additional responsibilities include working closely with the business development group to capture new business and represent Millennium at public forums. The ability to understand skill sets of personnel required to aggressively grow the organization and pull together a talented group of scientists is essential. Qualified candidates for this position will have a PhD, 10-15 years experience (some industry experience is critical) and a background in genetics and/or molecular genetics.

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UNIVERSITY OF MINNESOTA

HEAD, DEPARTMENT OF GENETICS, CELL BIOLOGY AND DEVELOPMENT

The University of Minnesota, College of Biological Sciences and the Medical School, announces a search for the position of Head for the Department of Genetics, Cell Biology and Development. The Department serves as a focal point for the University's molecular and cellular biology initiative and will be housed largely in the new MCB building to be occupied January 2002. Research strengths in the department range from structure/function of the cytoskeleton to gene therapy and include expertise in developmental genetics of model organisms (including worms, flies, zebrafish and mice). The successful candidate is expected to maintain an active research program and participate in training of graduate students and postdoctoral fellows. This is a twelve-month academic and administrative appointment with a tenured faculty rank of Full Professor. For additional information on the Department, and the University, see <http://www.gcd.med.umn.edu>.

Essential qualifications and experience include a Ph.D. or M.D. (or foreign equivalent), an internationally recognized record of ongoing scholarly activities, experience in faculty-level undergraduate, professional and/or graduate level instruction, as well as administrative and/or program leadership experience.

Applications will be reviewed beginning April 1, 2000 and will continue to be accepted until the position is filled. A letter of application or nomination of up to three pages that discusses the vision, experiences, and special abilities that the candidate will bring to this position, vitae, and the names of four references should be submitted to: Ms. Elaine Siniff, GCD Head Search, Box 293 Mayo, 420 Delaware St. SE, Minneapolis, MN 55455

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Albany Medical College

Faculty Positions

Center for Cardiovascular Sciences



Albany Medical College invites applications for tenure-track **Assistant or Associate Professor** positions in the new Center for Cardiovascular Sciences. We seek highly motivated individuals with a record of research productivity and a desire to participate in Graduate and Medical Education. The applicant's research should complement existing programs in the Center that include vascular cell signaling, vascular and microvascular reactivity, smooth muscle proliferation, endothelial barrier function, inflammatory lung disease, nitric oxide biology, fatty acid transport and gene regulation, and heart failure. We are particularly interested in applicants who utilize cellular, molecular, or genetic approaches in their research. A Ph.D. or M.D./Ph.D. degree and three years of productive post-doctoral experience are minimal requirements for appointment at the Assistant Professor level. Applicants for Associate Professor should have 3-5 years experience at the Assistant Professor level and a nationally recognized and funded research program.

Investigators in the Center for Cardiovascular Sciences have exciting opportunities for collaboration with scientists at neighboring institutions, including the New York State Wadsworth Laboratories, Rensselaer Polytechnic Institute, SUNY Albany, and the Trudeau Institute. The area offers diverse cultural and recreational attractions with easy access to Boston, New York City, and the Adirondack, Catskill, and Berkshire Mountains. For further information about the Center and Albany Medical College, please visit www.amc.edu.

Applicants should submit a current curriculum vitae, description of research interests, and three letters of recommendation by June 1 to:

Dr. Harold A. Singer

Chair, CCS Search Committee

Director, Center for Cardiovascular Sciences

Albany Medical College (MC-8)

47 New Scotland Ave.

Albany, New York 12208

An Equal Opportunity/Affirmative Action Employer. Women and Minorities are encouraged to apply.



MAYO CLINIC

BASIC AND TRANSLATIONAL T LYMPHOCYTE BIOLOGY

We are seeking postdoctoral applicants with a strong interest in the immunological basis of disease to participate in projects linking intercellular signaling pathways with the biological role of T lymphocyte activation in organ transplantation as well as the design of mechanism-based therapeutic strategies. Mayo offers state-of-the-art research facilities in a highly interactive environment and interdisciplinary collaboration with basic and clinical scientists. Candidates should have experience in protein biochemistry, molecular biology, and/or the use of murine models of graft rejection and immune activation. Candidates must be eligible for NIH training grant support. Mayo Clinic offers very competitive salary and benefit packages. Send resume and three references to:

David McKean, PhD

Chair, Department of Immunology

Mayo Clinic

200 First St. SW

321 Guggenheim Building

Rochester, MN 55905

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

Center for Genome-scale Protein Production

The Province of Ontario, in partnership with the University of Toronto and the Ontario Cancer Institute, has launched a Center for Genome-scale Protein Production. The Center will create a bank of tens of thousands of purified proteins, many of which have only recently been uncovered by the genome sequencing projects. The purified proteins are expected to provide the biological infrastructure that will enable proteomics scientists to develop new large-scale approaches to discover protein function. The Center is expected to interact closely with other Ontario proteomics projects, such as Structural Proteomics and Chemical Proteomics.

We seek Ph.D. level scientists for the following:

Head of Protein Production

The person will be responsible for the general operation of the Center as well as overseeing the development of new large-scale protein production technologies. He/she should have at least five years experience in protein production and purification. A keen willingness to collaborate with the international proteomic community is critical.

3 Group Scientists

Scientists to lead groups in three research areas: eukaryote protein expression; process automation; and molecular biology.

Postdoctoral Fellows and Research Technicians

We are also seeking ten or more postdoctoral fellows and research technicians with previous expertise in molecular biology, and/or protein expression (B.Sc./M.Sc.), purification, x-ray crystallography and/or NMR spectroscopy of proteins.

The Ontario Cancer Institute (OCI) is the Research Institute of the Princess Margaret Hospital which is part of the University Health Network. The OCI is affiliated with the University of Toronto, which is among the largest centers of biomedical research in North America. The Institute is located in the heart of Toronto, a clean, safe and vibrant cosmopolitan city on Lake Ontario.

Applicants should send their curriculum vitae, stating the position of interest to: **E. Horvath, Proteomics Coordinator, Ontario Cancer Institute, 610 University Avenue, Room 7-326, Toronto, Ontario, Canada M5G 2M9.** Email to: ehorvath@oci.utoronto.ca.

Myriad Genetics has established itself as a leader in the discovery of human disease genes by using a powerful combination of positional cloning, proteomics, bioinformatics and high-throughput sequencing. A wholly owned subsidiary, Myriad Pharmaceuticals, Inc. has been established to use these discoveries to create novel therapeutic products for the treatment of human diseases.



We are currently seeking talented individuals to fill the following positions:

RESEARCH SCIENTIST, ASSAY DEVELOPMENT

We are seeking scientists to join a group using microbiological tools to discover therapeutics for human diseases. A strong work ethic, the ability to work within a team, and good communication skills are requirements common to all positions.

We will hire a Ph.D. scientist to develop novel genetic methods for identifying pharmacologic lead compounds. Competitive candidates will have a minimum of 3 years postdoctoral experience, a record of sustained scientific creativity, and exceptional productivity in either an industrial or academic setting. A desire to work at the lab bench and an ability to supervise other bench scientists are essential. Preference will be given to applicants with experience in the genetics and cell biology of *S. cerevisiae*, although exceptional candidates with other experience will be considered.

RESEARCH ASSOCIATES, ASSAY DEVELOPMENT

We will hire three Research Associates with BS or MS degrees in a biological science or a related field. Competitive candidates will have experience with a range of molecular biological techniques and familiarity with DNA analysis software. Demonstrated ability to work independently, formulate and test hypotheses, and master relevant scientific literature is required. Experience with microbiological systems is preferred.

RESEARCH SCIENTIST, MOLECULAR BIOLOGY

Myriad's ProNet program has developed an industrial-scale process for the identification of protein interactions. Our goal is to understand, in great detail, the interactions that occur within the human proteome. We are currently expanding our discovery efforts and are seeking a scientist to join our group. This scientist will be responsible for implementing advancements to our existing high-throughput two-hybrid process and will participate in developing alternative methods for identifying protein interactions. Applicants should have a strong background in genetics and molecular biology and should have expertise in the identification and characterization of protein interactions. A Ph.D. and relevant post-doctoral experience is required for this position. Excellent communication and organizational skills are also essential.

Myriad offers an attractive compensation package and a stimulating, interactive research environment. Please send your letter of interest, a complete resume and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. Fax: 801-584-1144. You may also e-mail us at: hr@myriad.com



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ASSISTANT DIRECTOR OF HUMAN GENETICS

Provide senior level management to scientists engaged in human disease gene discovery program(s). Ph.D. in Molecular Genetics/Biology plus 3 - 5 years' Post Doc and a minimum of 5 years' management experience. Thorough understanding of genomics, positional cloning, gene identification and characterization, functional genomics, model systems and cell based assay methods. Skills in high throughput Protein/Protein interactions, gene expression profiling, and drug discover desirable.

ASSISTANT DIRECTOR OF BIOINFORMATICS

Responsibilities include providing operational mgmt for the entire dept. of over 20 people (including 3 group leaders) focusing on computational biology, genomic sequence production systems and SW development. Work closely with a range of external vendors of SW providers, evaluate applications and oversee the hiring process in relevant areas, provide a liaison to the IT group, work on special projects and represent the dept. to internal and external customers during absences of the Director. Must have at least 3 years' mgmt experience preferably in the biotech industry. Professional experience must include at least 5 years in molecular biology or computational biology research and development in an industrial/scientific environment. Ph.D. in biology or related science is required along with a substantial record of relevant scholarly activity.

SENIOR SCIENTIST

Responsibilities include developing novel technologies for applied Pathogen Genetics research; maintains database(s), and performs work relating to chromosomal deletions/insertions. Ph.D. in microbiology or related discipline with at least 2 years of Post Doc experience in molecular biology, genetics of bacteria. Work in Gram positive bacteria desirable.

SCIENTISTS (Genomics)

Responsibilities include coordinating data production through the high throughput sequencing facility, data analysis, troubleshooting and database updates. Requires a strong understanding of molecular biology and molecular genetics, in addition to detailed knowledge of PCR and DNA sequencing. BA/BS with 1-2 years of experience or MS. Industrial experience is preferred.

BIOAUTOMATION SCIENTIST (Technology Group)

Responsibilities include assay development and transfer of chemistries onto automated platforms. Qualified candidates must possess a B.S. or M.S. in the Natural Sciences plus at least 2 years of relevant experience. Experience programming robotic workstations such as Tecan, Quadra, CCS Packard, CRS and integration of these systems with other automation components is essential. The ideal candidate will also have a multidisciplinary background in networks/computers, laboratory instruments/automation and biochemistry as well as demonstrated abilities to troubleshoot hardware/software issues and solve problems in complex laboratory operations.

SENIOR COMPUTATIONAL BIOLOGIST

Applies and develops computational tools to recognize biological genome sequence, gene expression and/or protein-protein interaction data. Projects may include, but not limited to, comparative genomics, storage and analysis of microarray data, yeast two hybrid system data analysis, characterization of genes with unknown function and identification and validation of gene targets. Ph.D. in an appropriate life science with 2 years post doctoral experience preferred. Knowledge of microbial physiology and significant experience with tools, methods and databases for sequence analysis is required. Perl and some experience with relational database design and use is desirable.

SCIENTISTS (Finishing)

Responsibilities include using a set of computer skills to manipulate, assemble and analyze sequences in order to achieve project goals. Laboratory skills are utilized in generating sequence in order to bridge gaps as well as improve quality. BA/BS in Biological, Chemical Sciences or Computer Science. Strong analytical and communication skills are essential.

We offer an environment that promotes teamwork, flexibility and a long history of scientific excellence. Hiring bonuses, immigration support and relocation assistance may be included as part of our highly competitive compensation package. Come make a difference!

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FACULTY APPOINTMENT IN COLORECTAL CANCER RESEARCH

**The Lerner Research Institute
Cleveland Clinic Foundation**

Applications are invited at the ASSISTANT or ASSOCIATE PROFESSOR level to develop an independent basic research focus in colorectal cancer. The successful candidates (M.D. or Ph.D.) should have major interest in cancer genetics, APC signaling, mismatch repair or molecular pathology. Generous support and a highly competitive salary and fringe benefits will be provided. Candidates are expected to interact with existing members of the Section of Colorectal Cancer Research, jointly sponsored by the Department of Cancer Biology within the Lerner Research Institute, and the Department of Colorectal Surgery. The Lerner Research Institute of the Cleveland Clinic Foundation, under the leadership of Dr. George Stark and comprising over 100 independent investigators and 600 employees, has a long-standing commitment to excellence in basic biomedical research with an annual budget in excess of \$50 million. The Departments of Colorectal Surgery and Gastroenterology of the Cleveland Clinic Foundation have been consistently ranked in the top five in the United States.

Applications (including curriculum vitae and names and addresses of three references) should be sent to:

Graham Casey, Ph.D.
Director, Section of Colorectal Cancer Research
Department of Cancer Biology-NB40
Lerner Research Institute
9500 Euclid Avenue
Cleveland Ohio 44195

The search committee will receive applications through
May 15, 2000

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

ALBAC • Danny Thomas, Founder

POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the function of death receptors of the TNF receptor superfamily and their signaling pathways in the induction of apoptosis and in the chemotherapeutic response of human neoplastic diseases. The current focus of the laboratory is on the role of Fas/FasL interactions following DNA damage, TRAIL/DR4-DR5 interactions, and downstream signaling pathways in drug-induced apoptosis and death receptor-induced apoptosis in solid tumors. Studies encompass the areas of molecular and cell biology, biochemistry, and pharmacology, and include the use of cultured human tumor cell lines and xenografts in scid mice for approaches in developmental therapy. Applicants should have a recent Ph.D. degree in Pharmacology, Molecular Biology, Biochemistry, or a related discipline, or hold Pharm.D. or M.D. degrees. Submit curriculum vitae with names of three references to: **Dr. Janet Houghton, Division of Experimental Hematology, Department of Hematology-Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105.**

www.stjude.org

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the University of Health Sciences

ANATOMIST MOLECULAR GENETICIST/BIOLOGIST PHARMACOLOGIST

The University of Health Sciences College of Osteopathic Medicine invites applications for three **ASSISTANT OR ASSOCIATE PROFESSOR** faculty positions which are available immediately.

ANATOMY

Under the direction of the Chair of Anatomy, this individual will teach human gross anatomy (lecture and laboratory dissection) and histology in the Department of Anatomy. Qualified candidates will have a Ph.D. in Anatomy or related discipline with experience in teaching anatomy and histology.

MOLECULAR GENETICIST/BIOLOGIST

Under the direction of the Chair of Biochemistry, this individual will teach molecular genetics/biology. Qualified candidates will have a doctorate degree and postdoctoral research and teaching experience.

PHARMACOLOGIST

Under the direction of the Chair of Pharmacology, this individual will teach medical pharmacology. Qualified candidates will have a Ph.D. in Pharmacology or a Pharm.D. degree and postdoctoral teaching and research experience.

The candidates filling these positions must have a strong interest and commitment to teaching medical students. Research and/or other scholarly activities are expected in addition to teaching and University service. We are looking for positive team players with exemplary professional and personal characteristics.

Salary and rank will be commensurate with experience and qualifications. We offer an outstanding benefits package including dollar for dollar match on the retirement plan. Applications will be reviewed until successful candidates are identified. Please send a letter of interest, curriculum vitae, a statement of teaching philosophy, a statement of research interests, and the names, addresses, and telephone numbers of three references to:

Susan M. Schmidt
Assistant Director of Human Resources
the University of Health Sciences
1750 Independence Ave.
Kansas City, MO 64106-1453

EOE

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St. Jude Children's Research Hospital is an internationally renowned research and treatment center for children with catastrophic diseases – primarily pediatric cancers. The scientists at St. Jude are committed to biomedical research that seeks to understand the molecular causes of disease, improve diagnosis and treatment, minimize immediate and long-term side effects, and to ultimately find a cure for those diseases.

We have recently embraced a 5-year, \$1 billion expansion project that will support our continuing research by building on our existing strengths. This expansion brings new and exciting career opportunities for motivated professionals in the following areas:

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- Research Technologists
- Research Lab Specialists

St. Jude is located in Memphis, Tennessee, a city rich in history and culture stretching from the banks of the mighty Mississippi to the rolling green hills of eastern Shelby county. Learn more about St. Jude, our available positions and our home in Memphis, by visiting our web site. For immediate consideration, please forward your resume, including **JOB CODE: VH/SC**, to:

St. Jude Children's Research Hospital
Human Resources Department
332 North Lauderdale
Memphis, TN 38105
E-mail: virgil HOLDER@stjude.org
Fax: 901-495-3123

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St. Jude Biomedical Communications Department

ANNOUNCEMENTS

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Has your interest always been to pursue medical research? Do the realities of staggering educational debt appear to prevent you from realizing your dreams? NIH offers a variety of clinical and basic science postdoctoral training fellowships that can be combined with educational loan repayment incentives. You owe it to yourself to know about these programs (or share the information with someone in need!) as you make your career decisions. You owe it to yourself to learn more about what NIH can do for you.

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■ Senior Scientist

Tumor: host interactions are critical to tumor growth, invasion, metastasis, blood vessel growth, immune system evasion and other malignant processes. The Tumor Microenvironment team is seeking a highly motivated scientist with a Ph.D. in a biological science and 2-5 years of expertise utilizing molecular biologic, biochemical, and pharmacological techniques and methodologies. The successful candidate will have a keen interest in the development of new anticancer targets and innovative in vivo models to further elucidate the various interactions between the tumor and host. Prior experience with in vivo tumor biological studies is a plus. Source Code: ADSCMPH34

■ Senior Biochemist

We are seeking a scientist with a Ph.D. in Biochemistry (or related discipline), postdoctoral training, and 2-5 years experience in biochemical methodologies (1-2 years industrial experience preferred.) The successful candidate must demonstrate an expertise in enzymology, enzyme expression and purification and also experience in utilizing molecular biology techniques. The preferred scientist will have a broad understanding and experience in studying signal transduction pathways. Source Code: ADSCMPH35

■ Molecular Pathologist

This individual should be board certified with classical training in anatomic and clinical pathology with a strong background in molecular biology. A major focus of this job will be the tissue localization, characterization, and distribution of genes and proteins in a variety of normal and malignant tissues and the application of pharmacogenomic approaches to identify and validate novel therapeutic targets. Demonstrated technical expertise in immunohistochemistry, in situ hybridization, northern blots, and PCR is required. Experience in differential display methodologies is desirable. Source Code: ADSCMPH36

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ALSAC • Danny Thomas, Founder

POSTDOCTORAL FELLOWSHIP Department of Molecular Pharmacology

A NIH-funded position is available for a postdoctoral research fellow in the Department of Molecular Pharmacology to work on the application of viral-directed enzyme prodrug therapy. The research focuses on the use of a carboxylesterase that specifically activates the anticancer prodrug CPT-11 and its selective expression in human tumors (Potter et al, Cancer Res. 58:2646-2651, 1998; Danks et al, Clin. Cancer Res. 5:917-924, 1999). The applicant will apply the use of replication-deficient adenovirus to sensitize cells to CPT-11 and develop tumor-selective expression systems. Candidates should have a Ph.D. and expertise in one or more of the following: cell culture, construction of adenoviral or retroviral vectors, molecular biology, protein and nucleic acid biochemistry.

St. Jude Children's Research Hospital is a world renowned center for the treatment of catastrophic diseases in children and maintains a large research community. Significant opportunities exist for translational research and the application of novel ideas to cancer therapy. For more information see the St. Jude Website at: www.stjude.org

Applicants should submit a curriculum vitae, a summary of research experience and three letters of recommendation to:

Dr. Philip M. Potter
Department of Molecular Pharmacology,
St. Jude Children's Research Hospital,
332 N. Lauderdale,
Memphis, TN 38105
Email phil.potter@stjude.org
Fax: 901-521-1668

Equal Opportunity Employer

As a recognized leader in cancer research and Florida's only NCI-designated cancer center, **H. Lee Moffitt Cancer Center & Research Institute's** continued commitment to quality and success is reflected through a progressive mission that embraces emerging technologies and breakthrough techniques.

RESEARCH COORDINATOR

Working in our new **Mouse Models Core Facility**, you will assume responsibility for coordinating daily operations required for the derivation of transgenic and targeted mice. The preferred candidate will possess a M.S. or Ph.D. degree in a biological or related science and demonstrable experience in embryo manipulation and microinjection and affiliated mouse work. Expertise with embryonic stem cell culture is desired, but not required. Applicants with a B.S. and ample experience will also be considered. This position requires a highly motivated, organized, service-oriented individual with strong written/verbal communication and computer skills. In addition to interacting with Moffitt investigators and laboratory personnel, the Mouse Models Core Facility Coordinator will instruct and supervise facility technician(s).

Moffitt offers an excellent salary/benefits program and professional academic environment. For consideration, all responses **MUST** include Job Code CE101. To apply, send/fax resume or CV by May 5th, 2000 to: **Human Resources, MOFFITT CANCER CENTER, Job Code CE101, 12902 Magnolia Drive, Tampa, FL 33612. Fax (813) 975-7827.** Drug-free workplace. Affirmative Action Employer. **For more information, contact Dr. Noreen Luetkeke, Scientific Director of Mouse Models Core. E-mail: luetten@moffitt.usf.edu**



www.moffitt.usf.edu



THE NATIONAL CANCER
INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER.

Be an NCI Cancer Prevention Fellow

THE NATIONAL CANCER INSTITUTE (NCI) sponsors the Cancer Prevention Fellowship Program (CPFP). Its purpose is to train individuals from a multiplicity of health and biomedical science disciplines in the field of cancer prevention and control.

What will I get out of the program?

- Master of Public Health degree
- NCI Summer Curriculum in Cancer Prevention
- Mentored research at the NCI
- Brief field assignments at other institutions

Research opportunities include chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle-factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking

cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

Am I eligible?

You must have a doctorate degree (M.D., D.D.S., D.O., Ph.D. or equivalent) from a U.S., territorial or Canadian institution. Foreign medical graduates must have current USMLE or ECFMG certification.

You must also be either a citizen or resident alien of the U.S. eligible for citizenship within 4 years.

How long is the program?

Fellows are accepted for up to 5 years of training beginning in July.

When are applications due?

Applications are due September 1, 2000 for entry into the program July 1, 2001.

How do I apply?

To receive a catalog*, contact:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director
Cancer Prevention Fellowship Program

National Cancer Institute
Executive Plaza South, Suite T-41
6130 Executive Blvd MSC 7105
Bethesda MD 20892-7105

*Please provide home address and where you heard about the program.

Further inquiries:

Mrs. Barbara Redding
☎ (301) 496-8640
Fax (301) 402-4863
E-mail br24v@nih.gov

Visit our Web site at:

<http://dcp.nci.nih.gov/pob>

POSTDOCTORAL POSITION IN CHROMATIN STRUCTURE AND EPIGENETIC REGULATION OF GENE EXPRESSION

A postdoctoral position is available immediately at the Cold Spring Harbor Laboratory to study the epigenetic control of transcriptional silencing in fission yeast. The presence of large heterochromatin domains and polycomb-related chromodomain proteins in fission yeast makes it more akin to mammalian systems yet with powerful genetics. Our research uses combination of genetics, cell molecular biology and biochemistry to study the role of recently identified trans-acting genes (including chromodomain proteins Swi6 and Ctr4), histone modifications and DNA replication proteins, such as DNA polymerase α in the propagation of epigenetic states. Experience in the fields of yeast genetics molecular biology or chromatin protein analysis is preferred.

The Cold Spring Harbor Laboratory offers a competitive postdoctoral salary, a comprehensive benefits package, and an excellent work environment. To apply please send a curriculum vitae, description of research experience, and three letters of reference to:

Cold Spring Harbor Laboratory



Dr. Shiv Grewal,
1 Bungtown Road, PO Box 100
Cold Spring Harbor, NY 11724
Phone: 516-367-8808
Fax: 516-367-8815
Email: grewal@cshl.org

Further information on our research program can be found by visiting the following website:
<http://www.cshl.org/public/SCIENCE/grewal.html>

Cold Spring Harbor Laboratory is an equal opportunity employer and encourages applications from women and minorities.

ANNOUNCEMENTS



NATIONAL INSTITUTES OF HEALTH UNDERGRADUATE SCHOLARSHIP PROGRAM

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

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

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

For each award year, scholars work 10 weeks (with salary/benefits) in our research laboratories in Bethesda, MD. They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with housing and transportation. After graduation, they work 1 year of full-time employment at NIH for each year of scholarship award.

WE SEEK YOUR ASSISTANCE IDENTIFYING STUDENTS WHO:

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

FOR MORE INFORMATION, CONTACT THE UGSP AT:

- Internet: <http://ugsp.info.nih.gov>
- E-mail: ugsp@nih.gov
- Phone: 1-800-528-7689
- TTY: 1-888-352-3001

**This is a special opportunity
for special students.**

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

VISIT OUR INTERNET SITE FOR
ON-LINE APPLICATIONS

Masonic Medical Research Laboratory

Molecular Biology Program Director

The Masonic Medical Research Laboratory (MMRL) invites applications for an individual to head its Molecular Biology Program. Position is at a rank equivalent to Associate Professor or higher. Ph.D. and/or M.D. candidates with experience and interest in gene therapy will be given preference. Others are encouraged to apply. A distinguished record of scientific achievement and a solid track record of extramural grant support are a must.

The MMRL is a not-for-profit independent basic biomedical research institute located in the foothills of the Adirondack Mountains in Upstate New York, well known for its pioneering work in electrical heterogeneity of the heart and mechanisms of cardiac arrhythmia. Appointees will have ready access to our Experimental Cardiology team (electrophysiologists working at the single cell, tissue, organ and *in vivo* levels). *Please send a letter stating your research interests, a curriculum vitae and names and addresses of three references to: Dr. Charles Antzelevitch, Director, Masonic Medical Research Laboratory, 2150 Bleeker St., Utica, NY 13501.*

Equal Opportunity/ Affirmative Action Employer.

Cardiac Electrophysiology Staff and Postdoctoral Positions

Staff (Asst. Prof.) and Postdoctoral positions are also available for basic cardiac electrophysiologists experienced with:

1. Calcium Transients and Fluorescent Confocal Microscopy.

A state of the art confocal fluorescent microscope was recently acquired.

2. Optical Mapping of the Heart.

Expertise with voltage sensitive dye and extracellular mapping techniques.



Faculty Position in Environmental Sciences The University of Texas-Houston Health Science Center School of Public Health El Paso Program

The University of Texas-Houston School of Public Health (UT-H SPH) invites applications for a tenure-track Associate Professor or Professor level faculty position in environmental sciences or related field. The position is with the El Paso Program, which along with similar Master of Public Health programs in Brownsville and San Antonio, comprise the UT-H SPH Border Campus.

Responsibilities include teaching and advising graduate students, research, and community service. Teaching includes introductory and specialty elective courses for students in the MPH degree program. Community service activities should involve and foster collaborative initiatives with local, state, national, and international health agencies that focus on border health problems. Opportunities for border-environmental research are plentiful. The position includes opportunities for collaboration with faculty at the main UT-H SPH campus in Houston, the Dallas MPH Program, and the other border campus sites. Collaboration with programs at the University of Texas at El Paso, such as the doctoral program in Environmental Science and Engineering, is expected. Funding opportunities in the El Paso area for research and service projects are excellent.

General qualifications include: (1) strong interest in teaching and advising graduate students, (2) demonstrated ability to support an active research program in one or more environmental health specialties, (3) strong interest in collaborative research, and (4) excellence in written and oral communication skills. Spanish fluency, and previous state, federal, or border health agency experience or employment are desirable assets.

The University of Texas-Houston is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply. Review of applications will begin immediately and continue until the position is filled.

Please send statement of interest, curriculum vitae and names of three professional references to:

Michael H. Smolensky, Ph.D.
Chair, Environmental Sciences
Search Committee
The University of Texas-Houston
Health Science Center
School of Public Health
P. O. Box 20186
Houston, TX 77225

e-mail: msmolensky@sph.uth.tmc.edu

ALZA, an integrated commercial pharmaceutical company, is focused on expanding the therapeutic value of our drug delivery technology around the world. Moving forward in our role as a developer, manufacturer and marketer of breakthrough products, we remain committed to improving the lives and health of people everywhere. Join us at our new facility in Mountain View as we continue to bring innovations to market for millions of people in the new millennium!

PRODUCT DEVELOPMENT MANAGER

Capitalize on your scientific expertise as you manage product development activities through IND and NDA filing, NDA approval and product commercialization. Your specific activities will include directing a multidisciplinary team; developing work plans for all activities from feasibility to commercialization; coordinating resources for various departments to ensure timeliness and cost effectiveness; and managing the technical direction of product development. You will serve as the principal client contact during product development. To qualify for this challenging role, you must have a PhD in Physical Sciences, Engineering, Pharmacology, Pharmaceutical Sciences, Chemistry, Biochemistry or Life Sciences, 6+ years product development experience for the pharmaceutical industry, and exposure to a broad range of scientific disciplines, including polymer chemistry, protein chemistry, and protein metabolism. An energetic self-starter with superior communication, project management and leadership is ideally suited to this highly collaborative role.

Please send resume to ALZA Corporation, HR Dept., Job Code SCI33100-GS 1900 Charleston Road, PO Box 7210, Mountain View, CA 94039-7210; fax: (650) 564-5656; email: jobs@alza.com (ASCII files only); Job Hotline: (650) 564-5319. Our hiring managers will review all qualified resumes. ALZA is proud to be an EOE.

www.alza.com



CLINICAL DIRECTOR

National Center for Complementary and Alternative Medicine National Institutes of Health

The National Center for Complementary and Alternative Medicine (NCCAM), NIH, is seeking exceptional candidates for the position of Clinical Director, Intramural Research Program, NCCAM. Incumbent directs and oversees multifaceted intramural clinical research involving the safety, efficacy and mechanisms underlying diverse complementary and alternative medicine (CAM) modalities. Incumbent serves in a senior advisory capacity to the Director, NCCAM, and other NCCAM staff on the design and conduct of clinical trials.

This position offers a unique opportunity to create and direct the NCCAM Intramural Research Program and to make important contributions to NCCAM's extramural research portfolio. The duties and responsibilities include: directing and overseeing clinical and translational research programs with; a) responsibility for formulating a vision for clinical investigation to include relevant preclinical and basic research; b) overseeing resource allocations, scientific review, and recruitment of personnel; d) reviewing all clinical research protocols for design, standards, and relevance to mission; e) reviewing all matters pertaining to the provision of patient care in research protocols; f) serving as executive representative of the NCCAM clinical research program at all NIH levels; and (g) assuring adherence to the highest ethical and regulatory standards governing clinical research.

Candidates need to have an established record in the design, conduct and analysis of a clinical research program preferably in areas relevant to and/or incorporating CAM modalities. This experience must include managing a senior-level research program that is recognized nationally. Candidates must have a medical license in at least one state or the equivalent licensure and credentials to practice clinical medicine from their home country. Salary and resources will be commensurate with the qualifications and experience of the candidate. To apply for this position, submit curriculum vitae, bibliography and the names, addresses and telephone numbers of four professional references to: **Dr. Peter Lipsky c/o National Center for Complementary and Alternative Medicine:**

**National Institutes of Health
Building 31, Room 5B37
31 Center Drive, MSC 2182
Bethesda, MD 20892-2182**

APPLICATIONS MUST BE POSTMARKED BY MAY 8, 2000

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Cortical Function

The Department of Neurosurgery at Upstate Medical University is seeking a scientist with interests in human and animal cortical mechanisms relating to sensory, motor, or higher cognitive functions. Facilities include a new human performance center and an MR machine dedicated to research endeavors. There is excellent departmental support for this position. This is a tenure track position at the Assistant or Associate Professor level. The successful candidate will have a significant publication history and a demonstrated ability to generate outside funding. *Upstate Medical University is an equal opportunity employer. Women and minorities are encouraged to apply.*

Experimental Neuro-oncology

The Department of Neurosurgery at the Upstate Medical University is offering a position for a scientist interested in the cellular mechanisms related to central nervous system neoplasia. This is a named (The Robert and Molly King Neuroscientist) position with excellent departmental support and will be an integral part of the academic efforts of the department. The successful candidate will have a proven publication and funding record and will qualify at least for an Associate Professor rank. *Upstate Medical University is an equal opportunity employer. Women and minorities are encouraged to apply.*

Qualified applicants interested in either position should contact:

**Charles J. Hodge, M.D.
Department of Neurosurgery
Upstate Medical University
750 East Adams Street
Syracuse, New York 13210
(315) 464-5510
e-mail: hodgec@upstate.edu**

TEMPORARY POSITIONS IN BIOLOGY THE CLAREMONT COLLEGES

The Biology program of Claremont McKenna, Pitzer, and Scripps Colleges seeks 3 broadly trained biologists to fill one-year positions in biology at the Visiting Assistant Professor level to begin August 2000. Responsibilities include teaching an undergraduate lecture laboratory course in one of the following: (1) vertebrate physiology, (2) comparative vertebrate anatomy, or (3) marine ecology, and offering an upper-division course in a second area such as neurobiology or biostatistics. Additional duties may include participation in the introductory biology course, offering a science course for non-majors, or supervising students in research. A Ph.D. degree is required; prior teaching experience and scholarly publication are desirable.

The Biology program is part of an interdisciplinary department that serves three selective liberal arts colleges in the Claremont consortium. Potential applicants are invited to visit our website at www.jsd.claremont.edu or to contact Newton Copp (email ncopp@jsd.claremont.edu) for further information.

Send a CV, a statement of teaching interests and philosophy, and a statement of research interests to **Velda Ross, Keck Science Center, 925 N. Mills Ave., Claremont, CA 91711** (email: vross@jsd.claremont.edu). Arrange to have three letters of recommendation sent to the same address. Review of applications will begin on April 15, 2000 and continue until the positions are filled.

The Claremont Colleges actively encourage applications from women and members of historically under-represented social groups in higher education.

GORDON RESEARCH CONFERENCES

Conferences at the Frontiers of the Biological, Chemical and Physical Sciences

- The full 2000 Summer and Fall GRC schedule appeared in the February 11, 2000 issue of **SCIENCE**.

visit the *frontiers of science* at:

WWW.GRC.URI.EDU

Our web site contains the complete schedule of current and upcoming Conferences. Apply directly from the web! Check it out now, Conferences fill up fast!

Faculty Positions at Cold Spring Harbor Laboratory

Cold Spring Harbor Laboratory is accepting applications to fill two faculty positions, preferably at the Assistant Professor level. Outstanding graduate students will also be considered for our Cold Spring Harbor Laboratory Fellowship program.

The Laboratory is currently developing a new technology center, which will contain state-of-the-art animal housing, a gene targeting facility, a microarray and genomics core and the CSHL mouse genome sequencing project. Existing research at CSHL is listed on our Web site: www.cshl.org.

Mouse Genetics and Cancer Biology

Areas of research interest for the position include:

- Analysis of tumor initiation, progression and/or metastasis using mouse models.
- Analysis of cancer gene function using knock-out, knock-in and/or conditional gene targeting approaches.
- Novel approaches to generate and/or characterize mouse cancer models.
- Identification of novel cancer genes or modifiers in mice.
- Analysis of murine tumorigenesis using functional genomics.

Plant Biology and Genetics

We seek an applicant working with Arabidopsis genetics, but an outstanding plant biologist working on other plant systems will be considered. The applicant would join a Plant Biology group that currently consists of three interactive faculty members whose research focuses on developmental biology, plant genetics and genomics.

Applicants should submit a CV, summary of research accomplishments, a research proposal, and names of 3 references to: Dr. Bruce Stillman, Director,



Cold Spring Harbor Laboratory
1 Bungtown Road
Cold Spring Harbor, NY 11724

Cold Spring Harbor Laboratory is an equal opportunity employer and encourages applications from women and minorities.

POSTDOCTORAL RESEARCH ASSOCIATE OPPORTUNITIES WAYNE STATE UNIVERSITY DEPARTMENT OF PATHOLOGY

Y.Q. CHEN
tumor suppressor genes
& prostate cancer

K.B. REDDY
signal transduction
& breast cancer

M.L. CHER
prostate cancer
& bone metastasis

F. SARKAR
molecular biology
of solid tumors

R. FRIDMAN
metalloproteinases
& tumor metastasis

L. SCHUGER
smooth muscle
myogenesis

H.R. KIM
growth factor signaling
& apoptosis

S. SHENG
tumor suppressor genes
& tumor invasion

T.H. KUO
mechanisms of
cell death

J.R. TURNER
tight junction regulation
and wound healing

A. RAZ
mechanisms of cancer
metastasis

R. VANDERHEIDE
cell injury & adaptation
cardiac pathology

Please contact investigators at: Dept. of Pathology, 540 E. Canfield, Detroit, MI 48201
www.med.wayne.edu/Pathology/pathresearchers.html

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CELERA
A PE Corporation Business

Director of Mouse Genomics

At Celera, we are unlocking the door to the mysteries of life. We are currently seeking a **Director of Mouse Genomics** to direct Celera's activities in sequencing, annotating, and analyzing the mouse genome in the context of the human genome and other model genomes. The successful candidate will direct the functional analyses of genotypes, including research programs to analyze mouse genotype to phenotype correlations. The individual will also help to create comparative proteomic databases and new programs in functional genomics; assist with Celera's collaborations with pharmaceutical/biotechnology companies and academic institutions; and will develop new knowledge for the company based on murine genome databases.

Requirements: Ph.D. in a Life Science or other related field, approx. 10 years of exp. in mouse genetics and/or genomics, and exp. directing research programs in a multidisciplinary environment. Additionally, the qualified candidate will have a comprehensive knowledge of mouse biology, immunology, genetics, DNA diversity, gene expression, positional cloning, and genotype to phenotype correlations. Experience with gene annotation is highly desired.

For information about career opportunities, please visit www.celerajobs.com

If unable to respond online, please direct your resume to: Celera, Attn: HR/SJM/034100, 45 West Gude Drive, Rockville, MD 20850 or Fax: (240) 453-3311. Celera is committed to drug-free work environment with pre-employment testing. EOE: M/F/D/V.

The Lustgarten Foundation for Pancreatic Cancer Research & Cold Spring Harbor Laboratory present a one-day conference

Cancer Development, Diagnosis & Therapies: Implications for Pancreatic Cancer May 2, 2000

Arranged by:
Ralph Hruban & Scott Lowe

- Overview of current status of research in pancreatic cancer
- TGF beta signaling & its disruption in mice
- Novel strategies for generating mouse models of human cancers
- Hereditary cancer syndromes & syndrome modeling in mice
- New technologies for identifying cancer genes
- Anti-angiogenesis therapies
- Tumor diagnosis with microarrays

Speakers: Patrick O. Brown,
Ronald DePinho, Alfred Knudson,
Jerry McMahon, Tak Mak,
Joan Massague, Harold Varmus,
Michael Wigler

**Cold Spring Harbor Laboratory
Meetings & Courses, 1 Bungtown Rd,
Cold Spring Harbor, NY 11724
Email: meetings@cshl.org
Fax: 516-3678845 Phone: 516-3678346
www.cshl.org/meetings/**

Finding Solutions...Improving Lives

REGENERON PHARMACEUTICALS, INC. is a leader in molecular and cell biology research. We provide top scientists with the resources & tools they need to tackle & cure life-threatening diseases. We seek a committed, talented professional to join our exceptional team as we take on new challenges and discover new solutions.

CLINICAL RHEUMATOLOGIST/IMMUNOLOGIST

Reporting to the VP of Clinical Sciences, we are seeking a creative & experienced Research Physician to design & execute early stage clinical development programs, as well as lead & oversee CROs & CRAs. Candidate will also liaise with preclinical & science groups within the company & consult with experts in academia.

The professional we seek must possess an MD or MD,PhD, at least 2-5 years experience performing clinical trials in industry & 1-3 years research experience in immunology. Familiarity with therapeutic proteins is a strong plus. Knowledge of US regulatory guidelines & strong background in rheumatoid arthritis, immunology & clinical medicine required. Excellent written & oral communication skills are essential.

Regeneron is located on a campus-like corporate park and offers an outstanding benefits package including relocation, medical, dental, vision, Rx, stock options, 401(k) plan with match, tuition reimbursement, short & long term disability, life insurance and paid holidays, vacation and personal days. Please visit our website at www.regn.com for more information. For consideration, please submit a cover letter indicating position of interest, along with a resume and salary requirements specifying Job Code: HPG/222 to:

REGENERON Pharmaceuticals, Inc.

**Human Resources, 777 Old Saw Mill River Road, Tarrytown, New York 10591
Fax: (914) 345-7790 • e-mail text or PDF: jobs3@regpha.com
EOE M/F/D/V Regeneron...we thrive on unique challenges. You'll thrive with us.**

POSITIONS OPEN

FACULTY POSITIONS IN SCIENCE/MATH/ENGINEERING/ EDUCATION

City College of New York, CUNY

As part of a major initiative in science/math/engineering/technology (SMET) education, The City College seeks highly motivated and successful candidates for senior and junior tenure-track faculty positions who can provide leadership in making CCNY a nationally renowned center for precollege and college SMET education. The senior appointment is expected to coordinate and extend current precollege and college SMET work by science, mathematics, engineering, and education faculty.

Qualifications include Doctorate in science, mathematics, or engineering and extensive background in education or a Doctorate in science or mathematics education and very strong background in science or mathematics; a record of successful teaching; and outstanding scholarly achievement. The candidates are expected to work closely with the appropriate departments in the Division of Science and/or the School of Engineering. Candidates from all areas of SMET are invited to apply. Faculty rank and salary are commensurate with the candidate's experience and background. Salary range: **ASSISTANT PROFESSOR** (tenure track): \$32,703 to \$57,089. **ASSOCIATE PROFESSOR** (tenure track): \$42,616 to \$68,174. **PROFESSOR**: \$52,898 to \$81,924.

Closing date: May 7, 2000. Applications: Send a detailed letter of qualifications; research interests; curriculum vitae; and the names, addresses, e-mail addresses, and telephone numbers of three references to: **Dean Alfred S. Posamentier, School of Education, The City College, NAC 3/203-(SMET), Convent Avenue at 138th Street, New York, NY 10031.** An Equal Opportunity/Affirmative Action/IRCA Employer; Minorities/Females/Disabled/Veterans.

ENDOWED CHAIR IN NEUROSCIENCE MICHIGAN STATE UNIVERSITY

The Neuroscience Program at Michigan State University is expanding research programs focused on neural plasticity and development. The Program invites applications for a tenured appointment at the **FULL PROFESSOR** level to hold the endowed **Barnett Rosenberg Chair in Neuroscience**, which provides substantial recurring research support. Applications are welcome in any area of neural plasticity, but individuals with research interests in neural development are especially encouraged to apply. The ideal candidate will have an established track record of research excellence and funding, interest in developing collaborative interactions within the interdepartmental Neuroscience Program, and a strong desire to participate in graduate education and research training. The appointee will work with current faculty and administration to expand in neural plasticity and development and will play an influential role in hiring additional neuroscience faculty. Departmental affiliation will be appropriate to the expertise of the appointee. Information about the Neuroscience Program and links to relevant departments can be found at **website: <http://www.ns.msu.edu/neurosci>**. To ensure consideration, applicants should submit by April 15, 2000, a letter describing research and teaching interests; a curriculum vitae; representative publications; and the names of three individuals who will provide letters of recommendation upon request to: **Dr. Cheryl Sisk, Director, Neuroscience Program, Michigan State University, East Lansing, MI 48824.** MSU is an Affirmative Action/Equal Opportunity Institution. Persons with disabilities have the right to request and receive reasonable accommodation. Applications from women and minorities are encouraged.

The Department of Biomedical Sciences, Ontario Veterinary College. Candidates are being sought for two tenure-track faculty positions at the **ASSOCIATE** or **ASSISTANT** level, one in pharmacology/physiology and one in comparative veterinary anatomy. Please see our **website: www.ovcnet.uoguelph.ca/biomed/index.htm**. Send curriculum vitae and names of three references to: **Dr. Allan King, Acting Chair, Department of Biomedical Sciences, University of Guelph, Guelph N1G 2W1 ON.**

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF BIOENGINEERING The University of Utah

Applications are invited for two **ASSISTANT- or ASSOCIATE-LEVEL, TENURE-TRACK FACULTY** positions in the areas of biointeractive materials. Candidates must have an earned Doctorate and a strong physical science and engineering background, with a special biological direction to their research. We are seeking candidates with demonstrated expertise in one of the following three areas: engineering of tissue scaffolding, engineering of structural biomaterials, or engineering of functional structures and devices.

Appointees will be expected to develop significant research programs and teach appropriate undergraduate and graduate courses. See **website: www.bioen.utah.edu** for further information.

Complete curriculum vitae, names of three references, and a brief career goals/objectives statement should be sent to: **Dr. V. Hlady, Search Committee Chair, Department of Bioengineering, 50 South Central Campus Drive, Room 2480, Salt Lake City, UT 84112-9202.** Applications will be reviewed and continue until qualified candidates are selected.

The University of Utah, an Affirmative Action/Equal Opportunity Employer, encourages applications from women and minorities and provides reasonable accommodation to the known disabilities of applicants and employees.

FACULTY POSITION IN ZEBRAFISH BIOLOGY University of Wisconsin-Madison

A tenure-track position is available in the area of zebrafish biology. The appointee will join **Drs. Halloran and Pegri** of the Departments of Anatomy/Zoology and Genetics, respectively, in an interdepartmental research group as part of the Zebrafish Cluster hiring initiative. Applications are invited from candidates using molecular, cellular, or genetic approaches to study problems in a variety of areas, including development, neurobiology, morphogenesis, and intra- and intercellular signaling. Primary appointments will be in the Departments of Anatomy and Zoology. Applications should include curriculum vitae, a statement of research and teaching experience and interests, and the names and addresses of three references and should be sent to: **Zebrafish Search Committee, c/o Ms. Heather Daniels, Neuroscience Training Program, 179 Medical Sciences Building, 1300 University Avenue, University of Wisconsin, Madison, WI 53706.** Specific questions concerning the search can be addressed to **Seth Blair** at e-mail: **ssblair@facstaff.wisc.edu**.

An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR, Department of Comparative Medicine. The University of South Alabama, College of Medicine, Department of Comparative Medicine, is currently seeking a new investigator who will develop an independent research program that employs transgenic and knockout animals models. Direct experience with embryonic stem cell technology and animal modeling are preferred. We seek an interactive individual whose activities will enhance the scientific and technical expertise of the Department in this important area of biomedical research. The Department of Comparative Medicine is one of six basic medical science departments within the College of Medicine. The institution offers a stimulating research environment in which collaborative research within and among departments is encouraged. Candidates should respond with a letter of interest, curriculum vitae, and the names of three references. This tenure-track position will remain open until the successful candidate is identified. Correspondence should be addressed to: **Christian R. Abbe, D.V.M., Professor and Chair, Department of Comparative Medicine, University of South Alabama, 307 University Boulevard, Room 992 MSB, Mobile, AL 36688.**

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

POSITIONS OPEN

YOUNG INVESTIGATOR PROGRAMME INSTITUTE OF MOLECULAR AND CELL BIOLOGY, SINGAPORE

The Institute of Molecular and Cell Biology (IMCB), Singapore, is a major centre for research in the life sciences, with an established international reputation (visit our **website: www.imcb.nus.edu.sg**). The Institute places great emphasis on excellence in research, in educating young scientists, and in nurturing young investigators. IMCB is superbly equipped and funded and has excellent computer resources. Singapore is continuing to invest heavily in the life sciences and is recognized as a hub for biomedical research and development in the region.

We are inviting applications from young investigators (who are either recent Ph.D. graduates or who have had up to three years of postdoctoral experience) to join our new Young Investigator Programme. Candidates should have a track record of publications that indicates outstanding potential for independent research. Our Young Investigator Programme is intended to provide promising scientists with an exceptional opportunity to establish their independent research credentials without the distractions normally associated with academic appointments. Research can be in any area of molecular, cell, and developmental biology that will complement, extend, or add a new dimension to the existing programmes in the Institute. Successful candidates will be appointed as **ASSISTANT PROFESSORS** for a fixed term of six years. Three additional research staff positions composed of up to two Postdoctoral Fellows and one Ph.D. student will come with the appointment. All aspects of the research programmes, including conference travel, will be totally funded by the IMCB. A highly competitive remuneration package is offered.

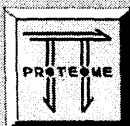
Applicants should post/FAX/e-mail their curriculum vitae and the names of three references to: **The Director, Institute of Molecular and Cell Biology, National University of Singapore Campus, 30 Medical Drive, Singapore 117609, Republic of Singapore.** FAX: 65-777-0402; e-mail: **mcbleemk@imcb.nus.edu.sg**.

RESEARCH FELLOWSHIP CEREBROVASCULAR DISEASE University of California, San Francisco

Research Fellowship positions are offered by the Neurology Department, Veterans Affairs Medical Center, and University of California, San Francisco, for M.D.s or Ph.D.s with interest in the pathophysiology, treatment, and prevention of stroke. The fellowship program will provide trainees with broad experience in cerebrovascular disease research, including the use of MRI and MRS, animal models, cell culture, and molecular genetics approaches. Fellows with M.D. training will also participate in the clinical neurovascular services. Appointments are for two to three years. *Applicants must be citizens of the United States and no more than two years postresidency for M.D.s or four years postdoctorate for Ph.D.s.* Appointments can begin any time after May 1, 2000. Address curriculum vitae or inquiries to: **Dr. Raymond A. Swanson, (127) Neurology VAMC, 4150 Clement Street, San Francisco, CA 94121.** E-mail: **ray@itsa.ucsf.edu**.

ASSISTANT/ASSOCIATE PROFESSOR OF NUTRITIONAL BIOCHEMISTRY/ MOLECULAR NUTRITION University of Arizona

Tenure-track, research/teaching appointment (75%/25%). Successful candidates expected to develop nationally competitive research program in biochemical nutrition or molecular mechanisms of nutrient function in health and disease. Applicants using transgenic approaches in nutrition/medical research problems or for nutritional enhancement of foods especially encouraged. Application review begins 3 April 2000 and continues until position filled. Send complete curriculum vitae, including three references and statement of research interests, to: **Dr. Fred Wolfe, Head, Department of Nutritional Sciences, University of Arizona, Tucson, AZ 85721.** *University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*



Proteome, Inc.

<http://www.proteome.com>

SCIENTIFIC CURATORS

Proteome is a rapidly growing company at the forefront of the bioinformation revolution that provides comprehensively curated protein databases to the pharmaceutical industry and to academia. We have many openings for Scientific Curators, who collect and integrate protein information for our multispecies databases. Candidates must have training in mammalian or model systems, a wide knowledge of cell or molecular biology or related fields, excellent writing skills, and a Ph.D. degree. Curators may work full or part time, on-site or remotely, which offers maximum personal flexibility.

For consideration please send a cover letter and cv to Human Resources, PROTEOME, INC., 100 Cummings Center, Suite 435M, Beverly, MA 01915 or hr@proteome.com or fax to 978-922-3971.

An equal opportunity employer.



**THIRD WAVE
TECHNOLOGIES**

Apply your scientific education and experience to help us develop our Invader technology, which is sought by researchers in academic laboratories and genome centers, clinical reference labs and pharmaceutical companies for drug discovery and clinical applications. Help the world while joining a company that offers casual dress, stock options, relocation assistance, family friendly culture, and career development based on your contributions.

Senior Scientist - Assay Development

Using your 5-10 years of lab experience along with your 3-5 years of team leadership and project management experience, you will help us develop assays in the areas of gene expression, infectious disease, and oncology. Other requirements include a Ph.D. in molecular biology or biochemistry. HTS experience a plus. Familiarity with clinical laboratory procedures and requirements, FDA regulations, and GLP would be helpful.

Scientists & Associate Scientists - Genomic Assays

You will play a critical role in the development of assays to detect genomic variations due to DNA polymorphisms such as SNP's and to measure mRNA expression. Requirements for these positions include a BS/MS with 1-3 years of experience, or a Ph.D. with 0-4 years of experience in molecular biology and nucleic acid hybridization. Familiarity with clinical laboratory procedures and requirements, FDA regulations, and GLP would be helpful.

Scientist - Sample Preparation

Join the scientists in R&D using your experience in preparing clinical samples for genomic analysis and infectious disease diagnosis. Requirements include a BS/MS with 3-5 years of experience or Ph.D. with 0-4 years of experience.

If you are looking for a great place to live and a great company to work for, Third Wave is for you. Third Wave is located in Madison, Wisconsin one of the most livable cities in America offering lakes, sporting events, theaters, world renowned medical facilities, outstanding school systems and much more. For consideration, please submit your resume or CV, the title of the position, and salary expectations to employment@twt.com, or via fax to 608-663-7069, or by mail to Third Wave Technologies, Inc., Attn: SC-1, 502 South Rosa Road, Madison, WI 53719.

More Opportunities Listed at www.twt.com

Equal Opportunity Employer

MEETINGS

Tyrosine Phosphorylation and Cell Signaling: The Third Decade



August 9-13, 2000

**The Salk Institute
San Diego, CA**

Organizers: Bart Sefton and Tony Hunter
Keynote Speaker: Larry Zipursky

Topics to be covered include: Receptor protein kinases • Signaling-based therapeutics • Lymphocyte activation • Protein phosphatases • Adaptors and modular signaling domains • Cytoplasmic and nuclear protein kinases • Lipid signaling pathways • Structures of signaling molecules • Genetic analysis of signaling in growth and development • Cell adhesion and cell-cell mediated signaling

This meeting is the 6th in a series that alternates between the Cold Spring Harbor Laboratory and The Salk Institute. The meeting will consist of short talks and poster sessions. Speakers will be selected from those who submit an abstract.

-Information on registration can be found at
<http://www.salk.edu/meetings.html>

Application and abstract forms can be obtained from Sheila Moles,
The Salk Institute 10010 N. Torrey Pines Rd., La Jolla, CA 92037
(858)453-4100 Fax (858)546-0838. Email: moles@salk.edu

Faculty Positions in Basic Research

The University of Texas M. D. Anderson Cancer Center

Research Trust Investigators

The University of Texas M. D. Anderson Cancer Center has recently established a Research Trust supporting a major recruitment effort to attract outstanding scientists. Several TENURE TRACK FACULTY POSITIONS at the rank of Assistant, Associate and Full Professor are now available in basic research. Support for the Trust will provide substantial start-up funding and stable research support for a period of five years. The successful candidates are expected to establish a vigorous independent research program that focuses on, but is not necessarily limited to, human cancer genetics, organogenesis, cell cycle control, the regulation of signal transduction pathways, control of cytoskeletal organization, genetically modified mouse models of cancer and human disease, mammalian genomics, the control of genome stability, or immunology. Research Trust Investigators will have the option to join the academic department of their choice. The M. D. Anderson Cancer Center, one of the largest comprehensive cancer centers, is located within the Texas Medical Center that is composed of numerous academic institutions and hospitals, all within walking distance of each other. This provides one of the largest and most interactive biomedical research communities in the world. Applicants should provide their curriculum vitae, a description of research interests, and the names, addresses, telephone numbers and email addresses of three references to:

Dr. Margaret Kripke
Senior Vice President/Chief Academic Officer, Box 113
The University of Texas M. D. Anderson Cancer Center
1515 Holcombe Blvd.
Houston, TX 77030
713-745-4495

UTMDACC is an Equal Opportunity Employer; smoke-free environment. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

ENDOWED PROFESSORSHIP THE DEPARTMENT OF INTERNAL MEDICINE Division of Nephrology

The University of California, Davis, School of Medicine is planning an expansion of its cardiovascular medicine program with an emphasis on vascular biology. Resources have been committed for a Chief of Cardiovascular Medicine, a Chief of Endocrinology, an Endowed Professor within the Department of Pathology, and an Endowed Professorship in Inflammation within the Division of Nephrology.

University of California, Davis, has a full-time Endowed Professorship position available in the tenure track as an **ASSISTANT/ASSOCIATE/FULL PROFESSOR**. Appointment will be in the Department of Internal Medicine, Division of Nephrology, and either Human Physiology or one of the other basic science departments. Candidates must possess a Ph.D. and have interests in molecular or cellular biology as related to inflammation and vascular biology. Applicants at the Associate Professor level must have an established externally funded research program. Applicants at the Assistant Professor level must have postdoctoral experience with the potential to build a solid research program based on externally funded support as well as documented productivity. The responsibilities for this position include development of an active, innovative, independent research program and participation in graduate education. Applicants should submit (1) curriculum vitae (including teaching experience); (2) a synopsis of past, present, and future research goals; (3) up to three representative reprints; and (4) five names of reference to: **George A. Kaysen, M.D., Ph.D., TB 136, University of California, Davis, CA 95616**. Open until filled but not later than August 1, 2000. For further information on the vascular biology program, contact: **Dr. Fitz-Roy E. Curry, Associate Dean for Research**, at e-mail: fecurry@ucdavis.edu.

The Division of Public Health Sciences of the Fred Hutchinson Cancer Research Center invites applications from biomathematicians with an interest in modeling biological processes relevant to carcinogenesis and/or AIDS. Familiarity with stochastic processes and statistical estimation procedures is expected. The position will be at the rank of either Assistant or Associate Member (equivalent, respectively, to **ASSISTANT or ASSOCIATE PROFESSOR** at a university). An established track record is required for a position at the Associate Member level. An appointment in an appropriate department at the University of Washington may be possible depending on qualifications and interests. The incumbent will be expected to conduct an active program of independent and collaborative research pertinent to the mission of the Center.

The Fred Hutchinson Cancer Research Center is a world-renowned research institution with large and active efforts in basic biological sciences, human biology, clinical research, epidemiology, biostatistics, and cancer prevention research. Its mission is the elimination of cancer as a cause of human suffering and death. The Center conducts research of the highest standards to improve prevention and treatment of cancer and related diseases.

Closing date for applications: June 15, 2000. Please send applications, including curriculum vitae, a letter describing research interests, and the names of four references to:

Suresh H. Moolgavkar, M.D., Ph.D.
Division of Public Health Sciences MP-665
Fred Hutchinson Cancer Research Center
1100 Fairview Avenue North
Box 19024
Seattle, WA 98109-1024

The Fred Hutchinson Cancer Research Center and the University of Washington are Equal Opportunity Employers. Both institutions are building culturally diverse faculty and strongly encourage applications from female and minority candidates.

POSITIONS OPEN



CHIEF OPERATING OFFICER AND ASSISTANT/ASSOCIATE DIRECTOR OF RESEARCH

International Recruitment for Two Leadership Positions at the World's Leading University Research Reactor

The University of Missouri-Columbia is pleased to announce an international recruitment for two critical positions at the Research Reactor Center. The individuals who fill these positions will devise and implement the tactics necessary to realize the University's vision for this unique Center: continued safe and reliable operation to provide quality nuclear services and products to both the research and global communities. The University of Missouri Research Reactor Center (MURR) places a high priority on collaborative research programs in the life sciences and materials sciences and highest priority on those programs that might lead to potential breakthroughs in health care.

Responsibilities of the second-highest ranking official at MURR, the Chief Operating Officer, include reactor operations, health physics/quality assurance, income-generating operations, finance and accounting, business development, product development, technical support services, and administrative support services. The COO's focus will be on internal operations in order to support the Director's focus on issues and agencies external to MURR. We seek an individual possessing the rare combination of experience in nuclear operations, nuclear industry business acumen, and strong managerial skills. A related technical education and MBA would be ideal.

MURR's major mission is to provide leverage for the expertise and talents resident in other University of Missouri-Columbia (MU) departments and at other institutions. The Assistant/Associate Director of Research will promote interdisciplinary research programs with partnering departments, universities, and federal and industrial laboratories that capitalize on MURR's unique facilities and personnel. This focus on interdisciplinary research also supports MU's educational mission by providing a wide range of research and training opportunities for both graduate and undergraduate students. We seek a published scholar with proven experience in building cross-disciplinary, reactor-based programs, preferably with a focus on life sciences and success in external grant acquisition and administration. A Doctorate in one of the physical, medical, or life sciences is required.

Applicants for the COO should submit a résumé and list of references to: **Ken Brooks, University of Missouri-Columbia, MURR, Research Park, Columbia, MO 65211**; and for the Assistant/Associate Director of Research to: **Ed Deutsch, c/o Human Resource Services, 130 Heinkel Building, University of Missouri-Columbia, Columbia, MO 65211**.

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

The Medical University of South Carolina seeks to fill the Jeffrey Gilliam Memorial Chair for the study of neurodevelopmental disorders. Rank will be at a level of **PROFESSOR**, and the candidate must have an M.D. with evidence of the ability to sustain an extramurally funded research program. Candidate must have research experience in the biological underpinnings of neurodevelopmental and will have a joint appointment in the Department of Physiology/Neuroscience. Candidate should send curriculum vitae, a list of three individuals to contact as references, and a letter containing a research summary to: **Peter Kalivas, Ph.D., Gilliam Chair Search Committee, Department of Physiology and Neuroscience, Medical University of South Carolina, 650 MUSC Complex, Suite 607, Charleston, SC 29425. Telephone: 843-792-4424.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR (THREE POSITIONS) MARINE FISHERIES Ecology and Genetics

Oregon State University announces an expanded research and educational initiative in marine fisheries, including three new tenure-track faculty positions in marine fisheries ecology and genetics. One position (marine fisheries ecology) will be based in the Department of Fisheries and Wildlife on the main campus in Corvallis. Two (marine fisheries ecologist, marine fisheries population geneticist) will be based at the Coastal Oregon Marine Experiment Station, which is located at the Hatfield Marine Science Center in Newport. For additional information, please see the website: <http://hmcs.orst.edu/groups/comes>. Candidates must have a Ph.D. in marine ecology, biology, genetics, fisheries, or related field or be expected to complete such a degree by July 2000. Please submit a letter of interest; a current résumé including a list of current interests, publications and funding history; and names and addresses of at least three references to: **Carol Cole, Coordinator, Coastal Oregon Marine Experiment Station, 2030 S.E. Marine Science Drive, Newport, OR 97365. Telephone: 541-867-0230; e-mail: comes@hmcs.orst.edu**. Applications must be submitted by April 15, 2000.

Oregon State University is an Equal Opportunity Employer and has a policy of being responsive to dual-career needs.

MOLECULAR GENETICIST CANCER RESEARCH CENTER OF HAWAII UNIVERSITY OF HAWAII

The Cancer Research Center of Hawaii, an NCI-designated Cancer Center at the University of Hawaii, invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** (Researcher) level in the area of molecular genetics of cancer. The successful applicant will be expected to establish an independent research program that will complement existing research in the multidisciplinary Cancer Etiology Program. The unique ethnic composition of Hawaii provides for excellent opportunities to conduct genetics research. It is anticipated that this individual will also interact closely with the Genomics Shared Resource of the Center. Minimum requirements: M.D. or Ph.D. degree and a record of published research in the field of molecular biology. Rank and salary commensurate with qualifications and experience. To apply: Send letter of application, curriculum vitae, statement of research interests, and the names and addresses of three references to: **Carl Wilhelm Vogel, M.D., Ph.D., Director, Cancer Research Center of Hawaii, 1236 Lauhala Street, Honolulu, HI 96813. Telephone: 808-586-3013; website: www.hawaii.edu/crch; e-mail: personnel@crch.hawaii.edu**. Closing date: Position will remain open until filled; however, first review of applications will begin June 1, 2000. *Equal Employment Opportunity/Affirmative Action Employer.*

ORGANISMAL PLANT BIOLOGY UNIVERSITY OF PUGET SOUND

Full-time, three-year **ASSISTANT PROFESSOR** position; begins fall term 2000. Teach a team-taught freshman-level majors course in diversity of life (primarily plants and animals) and an upper-level elective course for majors in area of specialty. Participate in one of the following: a sophomore-level ecology course with a quantitative component, a freshman-level principles of biology course, or a second upper-level elective course for majors. Requires Ph.D. (A.B.D. considered) with emphasis in botany (marine, freshwater or terrestrial, vascular or nonvascular plants). Interested individuals are encouraged to submit application materials postmarked no later than April 14, 2000, to ensure consideration. Submit interest letter, résumé, and three reference letters to:

**Three-Year Biology Search
University of Puget Sound
P.O. Box 7297
Tacoma, WA 98406**

ANNOUNCEMENTS

NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE *Research Announcement*

The National Space Biomedical Research Institute (NSBRI) announces an opportunity to participate in the core research program of the NSBRI. The release date for this announcement is February 22, 2000.

**NSBRI Research Announcement 00-01
An Opportunity to Participate in the Core
Research Program of the
National Space Biomedical Research Institute:
Expansion of Current Research Teams**

This announcement is available electronically via the Internet at <http://www.nsbri.org>

Letter of Intent Due: April 14, 2000
Proposals Due: June 16, 2000

Paper copies of this Announcement are available to those who do not have access to the Internet by calling 713-798-7412 or by writing to:

R. J. White

NSBRI

**One Baylor Plaza, NA-425
Houston, TX 77030.**

Director

Children's Cancer Research Center

The University of Texas Health Science Center at San Antonio (UTHSCSA) seeks a nationally recognized physician-scientist to lead the Children's Cancer Research Center (CCRC), a new program funded by a \$200,000,000 endowment from the State of Texas. The CCRC is envisioned as a comprehensive research center that will be a world leader in the identification of new targets and the development of new strategies in the fight against childhood cancer. Successful candidates for director will have an outstanding record of scientific achievement and provide evidence of strong leadership, program development and mentoring skills.

Applications will include a CV, personal statement of goals and objectives and list of professional references. Applications will be submitted to the University's executive recruitment consultant:

Jerry H. Baker
Baker, Parker & Associates, Inc.
Five Concourse Parkway - Suite 2440
Atlanta, GA 30328
jbaker@bpasearch.com

Additional information about CCRC, existing UTHSCSA children's cancer programs and the San Antonio Cancer Institute can be found at their respective websites: <http://www.uthscsa.edu/ccrc/>, <http://www.uthscsa.edu/pedionc/>, <http://www.ccc/saci.org/>

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

ANNOUNCEMENTS

Department of Defense Breast Cancer Research Program



**Fiscal Year 2000
Program Announcement**

**** *Research Funding Available!* ****

Congress appropriated \$175M for breast cancer research. Funds are available for Research, Training/Recruitment, and Infrastructure Awards. Proposals are sought across all areas of breast cancer research.

New this year:

- ◆ Behavioral Center of Excellence Awards
- ◆ Virtual Breast Cancer Center of Excellence Awards*
- ◆ Undergraduate Summer Training Program Awards
- ◆ Clinical Bridge Awards

Additional awards:

- ◆ Idea Awards
- ◆ Clinical Translational Research (CTR) Awards*
- ◆ Collaborative CTR Awards*
- ◆ Predoctoral Fellowship Awards
- ◆ Postdoctoral and CTR Postdoctoral Fellowship Awards
- ◆ Career Development and CTR Career Development Awards
- ◆ Historically Black Colleges and Universities/Minority Institutions Focused Training Awards and Partnership Training Awards

* Preproposals required; receipt deadline April 19, 2000. Other proposal receipt deadlines are June 7 and August 2, 2000. See Program Announcement for complete details.

Join us in the fight against breast cancer

The Program Announcement can be downloaded from the Congressionally Directed Medical Research Programs web site, <http://cdmrp.army.mil>. For questions or assistance, please call 301-619-7079.

MEETINGS



**Don't miss the American Society
for Microbiology's Employment Clearinghouse
AT THE GENERAL MEETING
IN LOS ANGELES**

May 21 - May 25

JOB SEEKERS

- View job postings and meet employers of microbiologists
- Over 80 employers attended the 1999 Employment Clearinghouse with over 150 job openings
- FREE registration for all ASM members
- Easy on-line registration.
- For maximum exposure to employers, register by April 13th

For more information about candidate registration, please call (614) 923-0618 or contact socmember@resume-link.com

EMPLOYERS

- 2 month, searchable, internet access to hundreds of résumés of ASM members
- Each employer can post an unlimited number of positions
- Opportunity to meet and interview job candidates on-site
- Less expensive than other recruiting services
- Save \$\$ by registering by May 1st

For more information about employer registration, please call the ASM Placement Service at (202) 942-9266 or placement@asmusa.org

<http://www.asmusa.org/empinfo.htm>



POSITIONS OPEN

RESEARCH SCIENTIST/ SENIOR RESEARCH SCIENTIST

At Centocor, a wholly owned subsidiary of Johnson & Johnson, we are creating, acquiring, and marketing cost-effective therapies that yield long-term benefits for patients and the health care community at large. Our products, developed through monoclonal antibody and DNA-based technology, help physicians deliver innovative treatments that work to restore patients' quality of life. This is a key supervisory opportunity responsible for developing a DNA delivery program with applications to DNA vaccine and gene therapy programs. You will develop *in vitro* and *in vivo* model system(s) to evaluate various modes of DNA delivery. Requires a Ph.D. with zero to eight years of experience or an M.S. with more than eight years and background in DNA delivery, DNA vaccines, or gene therapy. Centocor offers compensation packages in accordance with its leadership role in health care technology, including career development opportunities and a state-of-the-art work environment. To apply, please send résumé to: **Human Resources, Department Code: 230-00-JC-03A, Centocor, 200 Great Valley Parkway, Malvern, PA 19355. FAX: 610-651-6330; e-mail: jobbank@centocor.com.** For more information or a listing of other positions now available, please visit our website: **www.centocor.com.** *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

DEPARTMENT OF MEDICINE DIVISION OF INFECTIOUS DISEASE University of California, Irvine

The University of California, Irvine, College of Medicine, is seeking a **SENIOR MEDICAL ACADEMICIAN** as Chief of the Division of Infectious Disease in the Department of Medicine. This will be a tenured position. Qualified candidates must have either the M.D. or M.D./Ph.D. degree(s) and be internationally recognized for original research, with a solid track record of peer-reviewed funding. Responsibilities include development and oversight of quality educational, clinical practice, and research programs. Salary and rank are dependent upon experience. Interested candidates should send a copy of the curriculum vitae and a list of five references to: **Alan G. Barbour, M.D., Professor, Department of Medicine, University of California, Irvine, College of Medicine, Medical Sciences L, B250, Irvine, CA 92697-4025.** *The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

ASSISTANT PROFESSOR OF GENETICS

Applications are invited for a tenure-track position in the Department of Genetics with primary research and teaching interests in molecular genetics. The successful candidate will be expected to develop a strong creative research program and have a commitment to teaching at the undergraduate levels. The appointment could begin as early as September 1, 2000. To apply, send curriculum vitae, list of publications, brief statement of research interests, and three letters of reference to:

**Search Committee
Department of Genetics
University of Georgia
Athens, GA 30602-7223**

Application received by May 15, 2000, will be assured of full consideration.

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

POSTDOCTORAL POSITION is available to study structural basis of autophagy (Cell 98:651, 1999) and protein-nucleic acid interactions, using X-ray crystallography and biochemistry. Candidates with a strong background in protein crystallography and/or biochemistry are preferred. Please send curriculum vitae and three references to: **Dr. Hwai-Chen Guo, Department of Biophysics, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118. FAX: 617-638-4041; e-mail: hcguo@bu.edu; website: www.bu.edu/biophysics.** *Boston University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ANDERSONS PROFESSOR OF AGRICULTURAL ECONOMICS

**The Ohio State University
Department of Agricultural, Environmental, and
Development Economics**

We are seeking an individual who can provide exemplary leadership to the Department's research and graduate program while continuing the tradition of involvement with the national and global policy community. Areas of emphasis include but are not limited to agricultural trade, policy, and risk management. This premier position offers an attractive salary and benefits package and substantial funding for program support from the Andersons Endowment. The appointee will have an academic-year, nine-month appointment and will be expected to participate in research, teaching, and outreach activities.

Nominations are to be submitted to the Search Committee by April 21, 2000. Applications will be accepted until June 16, 2000, or until the position is filled. Send a statement of interest and qualifications, a current résumé, and the names of three references to:

**Alan Randall, Chair of Department and
Chair of Search Committee
Department of AEDE
The Ohio State University, 2120 Fyffe Road
Columbus, OH 43210-1067
Telephone: 614-292-6423
FAX: 614-292-4749**

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

ASSISTANT/ASSOCIATE PROFESSORS IMMUNOLOGY/PATHOGENIC BACTERIOLOGY

Two tenure-track positions, one each in the areas of molecular/cellular immunology and in molecular biology/genetics of pathogenic bacteria. Successful applicants will initiate and maintain productive independent research programs, participate in team-taught courses for medical and graduate students, and direct training of doctoral and/or postdoctoral research trainees. Assistant Professor candidates must demonstrate strong potential for success in these endeavors. Associate Professor candidates also must have strong publication records and current extramural research funding. Department provides excellent laboratory space; strong start-up packages; competitive 12-month state salaries; and supportive environment, with 14 full-time faculty and established doctoral program. Mail curriculum vitae, letter describing research and teaching goals, and list of three references to: **Dr. Paul V. Phibbs, Professor and Chair, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, NC 27858-4354.**

East Carolina University is an Equal Opportunity/Affirmative Action University. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** in the Department of Neurological Surgery at the University of Wisconsin Medical School. Applicants should have a Ph.D. with appropriate training in neurooncology, neurobiology, molecular biology, and/or physiology. Applicants will be expected to develop an independent research program to study the cell and molecular biological aspects of neurooncology and to pursue and obtain extramural support for the program. Applicants will also be expected to collaborate and interact with clinical scientists within the Department and participate in Department teaching activities.

Salary and start-up package will be commensurate with experience. Please send curriculum vitae, summary of research plan, and the names of at least three references to: **Robert J. Dempsey, M.D., Chair, Department of Neurological Surgery, University of Wisconsin Medical Center, 600 Highland Avenue, Madison, WI 53792-3232.** *University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR INSTITUTE OF CHEMICAL TOXICOLOGY Wayne State University

A tenure-track faculty position is available at the rank of Assistant/Associate Professor in the Institute of Chemical Toxicology, Wayne State University. The institute offers a research-intensive environment, a highly contemporary equipment and technology base, and is home to the NIEHS-funded Environmental Health Sciences Center in Molecular and Cellular Toxicology with Human Applications. The primary research area of interest focuses on toxicant effect on intracellular signaling and transcription factors in the regulation of gene expression and cell cycle control. Highly competitive salaries, start-up funds, and contemporary research facilities are available. Additional information may be found at website: **http://www.wayne.edu/chsctr.** Applicants should send curriculum vitae, a brief statement of research interests, and the names of three references to: **Dr. Raymond F. Novak, Director, Institute of Chemical Toxicology, 2727 Second Avenue, Detroit, MI 48201.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

VISITING ASSISTANT PROFESSOR in biology at Gonzaga University. The Biology Department invites applications from broadly trained organismal biologists for a two-year leave replacement position with the possibility of appointment for a third year. Teaching responsibilities (two courses per term) will include introductory organismal biology, vertebrate biology, genetics, and courses in an area of specialization. Opportunities are available for summer research with our undergraduates. Interested individuals should send curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: **Dr. Peter Pauw, Biology Department, AD Box 8, Gonzaga University, 502 East Boone Avenue, Spokane, WA 99258.** Review of applications will begin April 17, 2000. For further information, e-mail: **pauw@gonzaga.edu.** *Gonzaga is an Affirmative Action/Equal Opportunity Employer seeking to increase its diversity. Gonzaga University is a Jesuit Catholic humanistic university looking for candidates who can contribute to its educational needs and missions.*

A **POSTDOCTORAL POSITION** is available at the Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, to study the role of alpha-actinin in the development of kidney disease. This project will involve genetic, biochemical, and cell biologic approaches. Applicants must be eligible for NIH training grant support. Please respond to: **Dr. M. Pollak, Harvard Institutes of Medicine 542, 77 Avenue Louis Pasteur, Boston, MA 02115.** E-mail: **mpollak@rics.bwh.harvard.edu.** Applicants should provide the names and telephone numbers of three references.

**LECTURER
(APPLIED POPULATION ECOLOGY,
WILDLIFE MANAGEMENT, AND
CONSERVATION)
Department of Zoology
University of Otago
Te Whare Wananga o Otago
Dunedin, New Zealand**

Applications are invited for the position of Lecturer in the Department of Zoology (equivalent to **ASSISTANT PROFESSOR** in North America). For further information, please see our website: **www.otago.ac.nz/zoology/.**

POSTDOCTORAL POSITION available immediately to study basic molecular mechanisms that regulate mammalian kidney development. Preferred candidate will have experience with molecular techniques, developmental biology, cell culture, and conventional biochemical methods. Applicants must hold a Ph.D., M.D., or both. Send curriculum vitae and statement of current research and future plans with names of three references to: **Lois J. Arend, Ph.D., M.D., University of Rochester Medical Center, Department of Pathology, 601 Elmwood Avenue, Box 626, Rochester, NY 14642. FAX: 716-756-4468; e-mail: lois_arend@urmc.rochester.edu.**



ICAgen, Inc., is a leader in the discovery and development of small molecule drugs that target ion channels in a wide variety of therapeutic areas. Located in the Research Triangle Park, North Carolina, close to the resources of three major universities, the company has assembled a world class group of electrophysiologists, chemists, molecular biologists, and pharmacologists and is adding key new members to the team. We are seeking molecular biologists to join our Molecular Discovery Group. Primary activities will be the molecular cloning and characterization of novel ion channels, receptors and modulators. We are also seeking scientists to join our electrophysiology group.

Sr. Scientist (Job Code: MBD0300)

Applicants must have completed a recent Ph.D., or equivalent program, and possess at least two years of postdoctoral or industry experience in molecular neurobiology. Experience with cloning of novel genes and genomics technologies is highly desired. Special consideration will be given to candidates with proven expertise in the ion channel field. Candidates must have demonstrated excellence in scientific research, possess extensive technical expertise, have strong communication skills and the ability to facilitate discovery in a dynamic team environment.

Electrophysiologists (Job Code: EPD0327)

There is a position available in Biology for M.S./B.S. level scientists. The responsibilities for this position will include conducting electrophysiological experiments in support of both collaborative and internal discovery projects. Strong theoretical background in ion channel biology required with demonstrated proficiency in electrophysiological techniques and data analysis. This position also requires strong communication skills, both written and verbal, and the ability to work in a team environment.

ICAgen provides a comprehensive compensation and benefits package including competitive salaries, stock options, medical and dental plan, and a 401(k) retirement plan. For consideration, please submit your resume or CV and salary history directly to: **ICAgen, Inc., P.O. Box 14487, Research Triangle Park, NC, 27709, Attn: Human Resources** and include the appropriate job code with your cover letter.

ICAgen, Inc. is an equal opportunity employer.

Life's full of possibilities,



So is Glaxo Wellcome.

Imagine the career potential you'll have with a company that invests nearly \$2 billion a year on pharmaceutical R&D. Glaxo Wellcome, one of the world's foremost pharmaceutical companies, offers you outstanding possibilities for a growth-filled career.

For more information and to apply online, please visit our web-site at **www.glaxowellcome.com**. Search for Job ID# under career opportunities. If you do not have Internet access, or if you experience technical difficulties, call 1-888-825-5249, Monday thru Friday 8:00AM-8:00PM ET. (No agency referrals please)

An Equal Opportunity
Employer M/F/D/V

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JobLine: (919) 483-2565

POSITIONS OPEN

CURATOR: RANK OPEN CURATOR OF PALEONTOLOGY (DINOSAURS) The Field Museum

The Department of Geology seeks a productive colleague with an innovative, specimen-based research program in which the *Dinosauria* is a major component, including systematics, phylogenetics, morphologic evolution, and ecology. The successful candidate will have a Ph.D. and a record of scientific achievement and a willingness to build a strong field program. The position entails curation, especially of the dinosaurian portion of the paleohistological collection. Curators participate in a wide range of public learning programs (including exhibits, mentoring, and informal education); development; administrative; and service activities. Participation in undergraduate and graduate education at area universities also is strongly encouraged.

The search is targeted at the **ASSISTANT CURATOR** level, but exceptional candidates at more senior ranks will be considered. Please include curriculum vitae, statement of research objectives, and copies of relevant publications. Direct applications to (and arrange for three letters of reference to be sent to): **Search Committee, Department of Geology, The Field Museum, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605-2496**. Please ensure that all of the listed items (except copies of publications) are also sent as e-mail attachments. The preferred word processing application is Microsoft Word, although WordPerfect is also acceptable. **E-mail:** dinosrch@fmnh.org. Consideration of applications will begin May 30, 2000. For information about the Field Museum, visit **website:** <http://www.fmnh.org/>. *The Field Museum is an Equal Opportunity Employer.*

MICROBIOLOGIST/BIOSENSORS

The Department of Pathobiology at Auburn University is seeking a Microbiologist who possesses a strong record of achievement specializing in biosensors. The successful applicant will be appointed to a tenure-track position at the rank of **FULL, ASSOCIATE, or ASSISTANT PROFESSOR** commensurate with experience and accomplishments. The funding level for this position will allow salary support highly appropriate for an outstanding individual with an international reputation. The successful candidate will hold a Ph.D. degree in microbiology and have a background in the detection of microorganisms by sensor systems. This position will require active participation in a large-scale, cross-disciplinary effort to develop engineered detection for biological hazards. The successful candidate also will be expected to direct a strong individual research program, lead research and development in diagnostic microbiology, and participate in instruction. Review of applications will begin May 15, 2000, and continue until a candidate is recommended for appointment. Position is available July 1, 2000. Applicants should send a résumé and names and addresses of three references to: **Dr. Lauren G. Wolfe, Department of Pathobiology, Auburn University, AL 36849**. **E-mail:** wolfelg@vetmed.auburn.edu; **Telephone:** 334-844-4539; **FAX:** 334-844-2652. General background information on Auburn University can be found at **website:** <http://www.auburn.edu>. *Auburn University is an Affirmative Action/Equal Employment Opportunity Employer and Educational Institution. Minorities and women are encouraged to apply.*

RESEARCH ASSOCIATE

A Research Associate position is available to investigate regulation of α_1 -adrenergic receptor. Applicants with a strong background in molecular biology and protein biochemistry (particularly desensitization pathways) are requested to send their curriculum vitae with three letters of recommendation to: **Debra A. Schwinn, M.D., Department of Anesthesiology, P.O. Box 3094, Duke University Medical Center, Durham, NC 27710**. **FAX:** 919-681-4776; **e-mail:** barbc009@mc.duke.edu.

POSITIONS OPEN

RESEARCH SCIENTIST MALTING BARLEY RESEARCH WINNIPEG, MANITOBA, CANADA

We are accepting applications for an indeterminate, full-time position as a Research Scientist, Malting Barley Research, with the Canadian Grain Commission (CGC), Grain Research Laboratory. As part of the malting barley program, you will develop and implement a strong, viable program of fundamental research at the molecular level to investigate major barley and malt components such as proteins, carbohydrates, or lipids. This program will be focused on improving the end-use quality of malting barley. You will provide technical expertise on barley and malt quality to the CGC and to the Canadian barley industry.

Salary 1: \$38,721 to \$50,944 (CDN). **Salary 2:** \$48,080 to \$72,022 (CDN). The salary will be determined by the successful candidate's qualifications.

To meet these challenges, you must have successfully completed a Ph.D. in plant biochemistry or in a related science discipline and show evidence through work history and scientific publications of experience suitable for developing and carrying out a high-quality program of fundamental research work in an applicable area.

Proficiency in English is essential, but a working knowledge of a second language such as French, Japanese, Chinese, or Spanish would be an asset. An enhanced reliability security check is required prior to appointment.

If you are interested in this position, please apply on-line at **website:** <http://jobs.gc.ca> or submit your application/résumé, quoting Reference Number 00-CGC-OC-WPG-GRL-314, by May 10, 2000, to:

**Canadian Grain Commission
Human Resources Branch
401-303 Main Street
Winnipeg, Manitoba R3C 3G7 Canada
FAX: 204-983-1681
E-mail:** MaE@cm.agr.ca

Lists of qualified candidates may be used for future staffing. We thank all those who apply and advise that only those selected for further consideration will be contacted. *Preference will be given to Canadian citizens.*

We are committed to Employment Equity. We encourage members of employment equity groups to apply and self-identify. Preference may be given to members of employment equity groups (i.e., aboriginal peoples, members of visible minority groups, persons with disabilities, and women in underrepresented professions). Vous pouvez obtenir ces renseignements en français.

FISHERIES BIOLOGIST. Purdue University seeks qualified applicants for a Fisheries Biologist faculty position. This is a tenure-track, academic-year appointment at the **ASSISTANT PROFESSOR** level, with responsibilities functionally divided between teaching (major) and research. Responsibilities include teaching three courses each year, two at the undergraduate level and one at the graduate level; participating in the summer field practicum; directing graduate students; and conducting research in fisheries management, such as the effects of land-use practices on freshwater aquatic ecosystems, food chain dynamics, fish habitat restoration, and predator-prey relationships. The successful candidate must have a Ph.D. in fisheries, fisheries management, aquatic ecology, or related field. Evidence of success in publishing research results is expected. Evidence of success in teaching is desirable, as is international experience. The ability to work effectively with resource management agencies is a necessary component of the position. Salary is commensurate with qualifications. Applications should include a résumé, transcripts, copies of leading publications, and separate statements of teaching philosophy and research interest. At least three letters of reference are required. Inquiries, applications, nominations, and letters of reference should be addressed to: **Dr. Paul B. Brown, Chair, Fisheries Biologist Search Committee, Department of Forestry and Natural Resources, 1159 Forestry Building, Purdue University, West Lafayette, IN 47907-1159**. *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION TUMOR IMMUNOLOGY

**Department of Microbiology and Immunology
Indiana University School of Medicine**

The Department of Microbiology and Immunology is seeking a motivated candidate with a Ph.D. or M.D./Ph.D. degree for a tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** position in the area of tumor immunology.

The faculty member will pursue independent programs in original basic research, secure external grant support, and participate in teaching graduate and medical students. A history of past and present grant support would be advantageous and is a prerequisite for the Associate Professor position.

A competitive start-up package is available, including new laboratory space. The environment is highly interactive and productive, with close ties on campus to other basic science and medical departments and research centers, including the Walther Oncology Center, the Wells Center for Pediatric Research, and the NCI-designated Indiana University Cancer Center. Academic credentials and experience will determine faculty rank.

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

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

Indiana University is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION STANFORD UNIVERSITY SCHOOL OF MEDICINE Division of Medical Oncology

We are searching for a Physician/Scientist to develop a laboratory-based investigative program in cancer research. This position will be at the rank of **ASSISTANT or ASSOCIATE PROFESSOR** in the University tenure track. Preference will be given to candidates who have already obtained peer-reviewed grant funding. The specific scientific areas could include immunology, genetics, virology, pharmacology, or other areas of cancer biology. Newly constructed laboratory space and generous start-up funds are available at the Palo Alto Medical Research Foundation. The individual will have the opportunity to develop over time a multi-investigator section in their area of expertise at the Medical Foundation. Participation in teaching and in clinical service at Stanford University Medical Center will be expected. Please send curriculum vitae, a statement of career plans, and three names of references to: **Ronald Levy, M.D., Chief, Division of Oncology, Stanford University School of Medicine, SUMC M211, Stanford, CA 94305-5115**. *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

WADE'S CENTER FOR HYDROCEPHALUS ORHS HEALTH RESEARCH INSTITUTE Orlando, Florida

Seeks to recruit a **SENIOR RESEARCH SCIENTIST** to study molecular mechanisms of hydrocephalus. The successful candidate must have a Ph.D. degree and more than four years of postdoctoral experience in hydrocephalus research or molecular neuroscience. Qualified candidates should have excellent oral and written communication skills and have demonstrated the abilities to lead and develop lines of independent, externally fundable research. Salary and benefits commensurate with experience and qualifications. Submit curriculum vitae and names of three references to: **Personnel, ORHS Health Research Institute, 110 Bonnie Loch Court, Orlando, FL 32806**.

UNCF•Parke-Davis Scientific Initiatives Program

Postdoctoral Fellowships



The United Negro College Fund and Parke-Davis Pharmaceutical Research, the research and development division of Warner-Lambert Company, have established a partnership to support the career development of under-represented minority post-graduates in the biomedical research fields.

- **Four (4) Fellowships Awarded in 2000**
- **Fellowships up to \$51,000**
- **Support for 12-24 Months**
- **Mentoring by Parke-Davis Staff Scientists**

Applicants must be:

- A Ph.D. or equivalent degree recipient in a life or physical science by the end of the 1999-2000 academic year
- Appointed as a postdoctoral fellow during the 2000 calendar year at an academic or non-academic research institution in the USA, including Parke-Davis (other private industrial labs are excluded)
- A member of a minority group that is under-represented in the biomedical research fields

Submitted applications must be postmarked by May 1, 2000

For application forms and more information, please contact:

Jerry L. Bryant, Ph.D., Director, Science Education Initiatives

The College Fund/UNCF, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511

Phone: (703) 205-3503 Fax: (703) 205-3574 E-Mail: uncfcpd@uncf.org Internet: www.uncf.org

A mind is a terrible thing to waste.



Exciting Career Opportunities in Biomedical Research Administration



The Congressionally Directed Medical Research Programs (CDMRP) office in Frederick, Maryland is seeking qualified, energetic candidates for several biomedical research administration positions. The CDMRP, part of the U.S. Army Medical Research and Materiel Command (USAMRMC), is responsible for administering over \$1.5B in targeted Congressional appropriations including those relating to breast, prostate, and ovarian cancer, and neurofibromatosis.

Several positions are open that require both independent and team work to address a wide range of rapidly changing and diverse issues.

Required: Ph.D. or equivalent in a biomedical/behavioral field with excellent writing and verbal communication skills to fulfill the requirements to synthesize information in written and oral formats. Experience in research and in the scientific administration process, including program design, implementation, and/or evaluation.

Preferred: Experience in review, analysis, planning, organization, and coordination of interdisciplinary scientific research programs. Knowledge of federal, state, and contracting regulations and policies as they pertain to biomedical sciences and research. Experience with contract award negotiation and awarding of grants and contracts. Candidates with experience evaluating research programs are particularly sought.

***For more information about the CDMRP,
visit our web site at <http://cdmrp.army.mil>***

Potential applicants should fax a 3-page biosketch to:

Congressionally Directed Medical Research Programs
ATTN: Science Ad
Fax: (301) 619-7796

USAMRMC is an Equal Opportunity Employer.



MAYO CLINIC POSTDOCTORAL POSITIONS

Positions available at the computer-aided molecular design (CAMD) lab for postdoctoral fellows to develop novel angiogenesis inhibitors and to study chromophores of green fluorescent proteins using ab initio/molecular mechanics calculations, spectroscopic analyses, and organic syntheses. Applicants must have strong total-synthesis experience and/or quantum mechanics and molecular mechanics background. Preference will be given to applicants with their own fellowships or with experience of Beowulf-class computer systems. The CAMD lab has records of developing biologically active molecules and novel methods for zinc protein molecular dynamics simulations and for virtual screen of chemical databases. It has state-of-the-art synthetic equipment, a cluster of dedicated Origin 2000 and 200 servers (16xR10K, 8xR12K, 200Gb disk, and 3Gb memory), and four Octane graphics. Recent patents and publications by the CAMD lab are available from <ftp:m Mayo.edu> (name: anonymous, cd pub/camd). Applications including curriculum vitae, two relevant papers, and two recommendation letters should be sent to:

Yuan-Ping Pang, Ph.D.
Computer-Aided Molecular Design
Mayo Clinic
Guggenheim 711A
200 First Street SW
Rochester, MN 55905
e-mail: pang@mayo.edu

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

POSITIONS OPEN



CORTEX

Cortex Pharmaceuticals, Inc., an Irvine-based neuroscience company focused on novel drug therapies for the treatment of neurological and psychiatric disorders, is currently recruiting for the following positions:

RESEARCH ASSOCIATE

Cortex is currently seeking a Research Associate with the demonstrated ability to screen compounds on field excitatory postsynaptic potentials in the acute hippocampal slice preparation. This position will support the discovery and development of new drug entities for central nervous system disorders. The desired candidate will possess a B.S./M.S. in a biological science and more than two years of extracellular recording experience *in vitro*. The ability to perform basic statistical analyses of experimental results and data organization is essential.

RESEARCH ASSOCIATE

Cortex is currently seeking a Research Associate with solid experience in stereotaxic surgery involving small mammals and the demonstrated ability to conduct chronic electrophysiology studies (recording of field potentials and hippocampal LTP *in vivo*). Experience in behavioral pharmacology of rodents is additionally desirable. This position requires a B.S./M.S. in a scientific discipline and more than two years of research experience.

Cortex Pharmaceuticals, Inc., offers a competitive compensation and benefits package to include medical, dental, vision, and life insurance, 401(k) retirement plan, and stock options.

Interested applicants should mail a résumé (no telephone calls, please) to: **Human Resources, Cortex Pharmaceuticals, Inc., 15241 Barranca Parkway, Irvine, CA 92618. E-mail: jmello@cortexpharm.com; FAX: 949-727-3657.** Cortex Pharmaceuticals, Inc., is an Equal Opportunity Employer.

RESEARCH SCIENTISTS PHYSICIAN/SCIENTISTS Pulmonary Inflammation Pulmonary Development Lung-Brain Interactions

The Department of Pediatrics, Rainbow Babies and Children's Hospital, Case Western Reserve University, is soliciting applications for tenure-track faculty positions for **INSTRUCTORS** or **ASSISTANT PROFESSORS** within a well-developed research community studying the molecular regulation of pulmonary inflammation, pulmonary and neural development, or leukocyte biology. Applicants should have a Ph.D. or M.D., excellent research training, and the goal of establishing an independent extramurally funded research program. Submit curriculum vitae, statement of research interests, and names of three references to: **Claire M. Doerschuk, M.D., Rainbow Babies and Children's Hospital, Room 787, 11100 Euclid Avenue, Cleveland, OH 44106-6003. E-mail: cmd22@po.cwru.edu.**

Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.

RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

For a Ph.D. in cell and molecular biology to evaluate and understand a molecular mark in cancer cell nucleus. Experience in immunohistochemistry and histology a plus. The laboratory is situated in the best part of downtown Chicago next to Lake Michigan, with active cultural and night life. Interested candidates, please contact: **Sui Huang, Department of Cellular and Molecular Biology, Northwestern University Medical School. Telephone: 312-503-4269; e-mail: s-huang2@nwu.edu.**

POSITIONS OPEN

ENVIRONMENTAL MICROBIOLOGISTS/ GENETICISTS

The Environmental Laboratory of the U.S. Army Engineer Research and Development Center is seeking Environmental Microbiologists and Geneticists experienced with recombinant DNA techniques. Applicants will be considered at three levels: **RESEARCH SCIENTISTS** (\$55,000 to \$60,000/year); **POSTDOCTORAL RESEARCH ASSOCIATES** (\$45,000 to \$55,000/year); and **DOCTORAL CANDIDATES** (\$34,000/year). The successful candidates will work in a new and completely equipped nucleic acid research laboratory and participate in an active research group with 15 other Geneticists and Microbiologists. Applicants must have a Ph.D. in a relevant discipline or have completed all course work for a Ph.D. Microbiologists/Geneticists with documented experience in contaminant biodegradation, toxicology, bioinformatics, or phylogeography are preferred. Responsibilities will include leading/conducting experimental research, overseeing work of technicians, developing new research initiatives, and preparing manuscripts for peer-reviewed publication. Good communication, interpersonal, and technical writing skills are essential. Candidate screening will begin immediately and continue until the positions are filled. Send a letter containing a statement of career objectives and research interests, curriculum vitae, examples of recent publications, and the names of three references with postal/e-mail addresses and telephone/FAX numbers to: **Dr. Herb Fredrickson, U.S. Army Engineer Research and Development Center, WES-ES-P, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.**

NEONATOLOGIST ASSISTANT/ASSOCIATE PROFESSOR

Ph.D. candidates being sought for a tenure-track position in the Division of Neonatology, Department of Pediatrics, SUNY at Buffalo and the Children's Hospital, to participate in pulmonary biology research and teaching based at the Center for Developmental Biology of the Lung. Ph.D. and postdoctoral training in areas relevant to pulmonary biology research required. Previous experience in the supervision of graduate and undergraduate students is desirable. The Division is composed of nine neonatologists, has an active Fellowship program, and serves the Children's Hospital of Buffalo Level III 74-bed Neonatal ICU. Candidates should have an interest in the molecular and cellular biology of injury and repair of the developing lung.

Curriculum vitae to:

Rita M. Ryan, M.D.
Chief, Division of Neonatology
Children's Hospital of Buffalo
219 Bryant Street
Buffalo, NY 14222
E-mail: rryan@upa.chob.edu
Telephone: 716-878-7673
FAX: 716-878-7945

SUNY at Buffalo and University Pediatric Associates are both Affirmative Action/Equal Opportunity Employers.

RESEARCH MOLECULAR MECHANISMS

A **SCIENTIST** position is available in the Molecular Mechanisms Group in our Research Department. The successful candidate will develop liposome and lipid-based formulations and physically characterize these systems. Experience with techniques such as DSC, NMR, cryo-EM, etc., is desirable, and an understanding of the physical properties of liposomes, emulsions, and other lipid assemblies is required. The qualified candidate will possess a Ph.D. in biophysics, chemistry, or a related discipline. Prior experience in physical and chemical techniques is desired.

Interested candidates, please send résumé and references to:

The Liposome Company, Inc.
Department: WP
1 Research Way
Princeton, NJ 08540

Equal Employment Opportunity Commission.

POSITIONS OPEN



MOUSE TRANSGENIC FACILITY CARDIOVASCULAR DIVISION UNIVERSITY OF PENNSYLVANIA

Positions are available immediately for a **DIRECTOR** and **RESEARCH SPECIALIST** to staff a new transgenic facility within the Cardiovascular Division at the University of Pennsylvania. Expertise with pronuclear and blastocyst injections is required. Applicants at all levels from technicians to junior faculty will be considered. Generous reimbursement and benefit packages are available commensurate with experience. Successful applicants will work closely with five to six NIH-funded faculty members to design and carry out experiments within brand-new research and animal care facilities. Necessary equipment, technical, and administrative assistance is available. Send curriculum vitae and names of three references to: **Mark Kahn, 952 BRB II, 421 Curie Boulevard, Philadelphia, PA 19104. E-mail: markkahn@mail.med.upenn.edu; FAX: 215-573-2094.**

TERRESTRIAL VERTEBRATE ECOLOGIST

Lawrence University, a selective small liberal arts college, seeks an Ecologist with expertise in terrestrial vertebrate studies for a nine-month, full-time position. Ecology teaching responsibilities for the three academic terms will consist of one laboratory course per term to include principles of biology, general ecology, and an additional course related to the candidate's area of expertise. Interest in conservation or ecological restoration issues is desired but not necessary.

IMMUNOLOGIST/VIROLOGIST

We also seeks an Immunologist for a part-time position. Teaching responsibilities will include either immunology or virology.

Strong potential for excellence in undergraduate teaching is essential for both positions. Ph.D. is preferred, but A.B.D.s in the appropriate field will be considered. Candidates should send a letter of application, curriculum vitae, statements of teaching philosophy and research interests, copies of transcripts (undergraduate and graduate), and contact information for three references to: **Professor Nicholas Maravolo, Biology Department, Lawrence University, P.O. Box 599, Appleton, WI 54912.** Review of materials will begin April 1, 2000, and continue until position is filled. Lawrence University is an Affirmative Action/Equal Opportunity Employer.

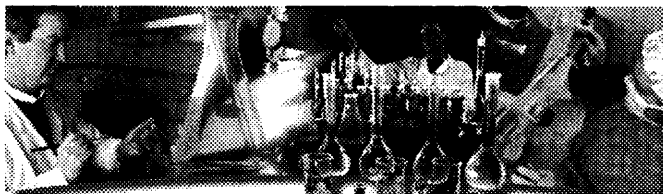
STAFF SCIENTIST BIOMEDICAL IMAGING NATIONAL INSTITUTES OF HEALTH

The Division of Computational Bioscience in the Center for Information Technology, NIH, seeks a staff scientist to develop 3-D reconstruction algorithms for small animal imaging. The selected candidate will devise and implement parallel, iterative methods for positron emission tomography (PET) and electron paramagnetic resonance (EPR) imaging systems. Candidates must have a Ph.D. in computer science, computer engineering, information science, or allied discipline and proven experience with tomographic image reconstruction problems in biomedicine. Experience with high-performance parallel computing is highly desirable. The scientist will collaborate with NIH intramural researchers on imaging projects as part of a multidisciplinary team. A complete application is required. See website: <http://careerhere.nih.gov/>. Vacancy Announcement Number CIT-00-0027. NIH is an Equal Opportunity Employer.

PEPTIDE SYNTHESIS TECHNICIAN

Proficiency in peptide design, synthesis, and purification. Experience in organic coupling techniques would be an advantage. Requires a B.S., five years of related experience, or a Doctoral degree. Qualified candidates please send résumé to: **Attention: Human Resources/ER, 10901 North Torrey Pines Road, La Jolla, CA 92037. E-mail: humanresources@burnham.org.** Equal Opportunity Employer.

Research Scientists/Engineers



Gillette Research Institute, a division of The Gillette Company, seeks Research Scientists/Engineers who will be involved in research leading to the development of new personal care products. A Ph.D. degree and experience in academic or industrial research is required.

• Medicinal Chemist

Experience in new drug discovery process and knowledge of topical formulations desirable.

• Biochemical Pharmacologist

Experience in cellular biochemistry and drug-enzyme interactions required.

• Biophysicist or Physicist

Experience in optics and image analysis applicable to biological research required.

• Physiologist

Experience in hormonal regulation of biological cycles desirable.

• Microbiologist

Experience with microbiological techniques required and a strong biochemistry background desirable.

• Colloid Chemist or Physical Pharmacist

Formulation experience and an understanding of surfactant, aerosol chemistry, and formulation scale-up is desirable.

• Chemical or Mechanical Engineer

Degree in engineering, chemistry or polymer science and a strong background in experimental rheology is required.

• Inorganic Chemist

Experience in solid state, sol-gel, solution, precipitation synthetic methods, and surface and bulk characterization methods required.

Positions are available immediately at our Gaithersburg, MD facility outside of Washington, DC with relocation to the Boston area occurring Fall, 2000.

We offer an excellent total compensation package. Qualified candidates should forward a resume to: Gillette Research Institute, Human Resources Department

401 Professional Drive, Gaithersburg, MD 20879

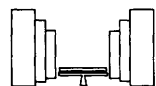
301-590-1509 • FAX (301) 590-1575

nancy_allen@gillette.com

An Equal Opportunity Employer



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Gillette
Company**



**The
Salk Institute**

ASSISTANT PROFESSOR

The Salk Institute for Biological Studies has an immediate opening for an assistant professor position in the Structural Biology Laboratory. The Institute is seeking a new junior faculty member with a vigorous research program that will complement the Institute's programs in molecular biology and neuroscience and the expertise of the Structural Biology Laboratory in x-ray crystallography and the biophysical analysis of macromolecular interactions. Applicants with an interest in protein structure/function and proteomics are encouraged to apply. Applicants must be legally employable in the United States.

The Salk Institute offers a competitive compensation package and excellent benefits. Please send curriculum vitae and three letters of recommendation to:

**The Salk Institute
Structural Biology Laboratory
c/o Aundrea Santos
P. O. Box 85800
San Diego, CA 92186-5800**

The Salk Institute is an
Equal Opportunity Employer
www.salk.edu

EUROPEAN OPPORTUNITIES



Imperial College

OF SCIENCE, TECHNOLOGY AND MEDICINE

NERC CENTRE FOR POPULATION BIOLOGY

Postdoctoral Researchers

Ecologist

We seek a Postdoctoral Research Fellow (PDRF) or Associate (PDRA), to join a multidisciplinary research team using the Ecotron controlled-environment facility at CPB. Current research, sponsored mainly by the NERC Soil Biodiversity Programme, focuses on the contribution of soil biodiversity to ecosystem processes. You will be interested in using model ecosystems to investigate questions in ecosystem processes, community ecology, global change biology or microbial ecology.

Microbial Ecologist

We seek a Postdoctoral Research Associate (PDRA) to work on the population biology of plant-associated bacteria (*Pseudomonas*). You will develop an exciting research programme on some aspect of the population dynamics and population genetics of these organisms, combining molecular and ecological approaches, in collaboration with the NERC Centre for Ecology and Hydrology at Oxford (IVEM).

Applicants for both positions require a PhD and relevant research experience. Salary ranges: PDRF £22,579 - £30,065; PDRA £16,286 - £24,479.

Details: Claire Challis, Centre for Population Biology, Imperial College at Silwood Park, Ascot, Berks., SL5 7PY; Tel: +44 (0)20 7594 2474; E-mail: c.challis@ic.ac.uk; <http://www.sw.ic.ac.uk/cpb/cpb/vacancy.html>

Applications to be received by 25th April 2000.

The College is striving towards Equal Opportunities

Molecular Biology and Gastrointestinal

AstraZeneca is one of the world's leading pharmaceutical companies, with approximately 50,000 employees. Operations are based on innovative research and development of pharmaceuticals in a number of major therapeutic areas. AstraZeneca has a highly developed marketing organisation around the globe, with a number of world-leading products. Production is conducted in some 20 countries. For further information, see: www.astrazeneca.com.

AstraZeneca R&D Mölndal conducts research on cardiovascular and gastrointestinal diseases. The unit has approximately 1,500 employees.

AstraZeneca R&D Mölndal is strengthening its competitive platform for molecular biology research in target and drug discovery that currently consists of about 60 devoted scientists at the Molecular Biology Department. The department is responsible for molecular biology activities and drives several collaborations with external leading scientists and research groups. Our main focus is to identify and characterise biological processes and molecular targets involved in cardiovascular and gastrointestinal disorders and to translate these discoveries into new therapeutic principles.

We are now seeking dedicated experienced researchers for development and further strengthening of our initiatives in Bioinformatics, Mouse Disease Models, Mammalian Genetics and Molecular Biology and invite applications in these areas:

Head of Bioinformatics (37-5/00)

To lead an expanding bioinformatics team, we invite applications for a senior key position as Head of the Bioinformatics Section. You will be responsible for the expansion and implementation of in silico biology in our cardiovascular and gastrointestinal discovery programmes. To maximise our competitive edge you will lead both long-term scientific initiatives and be delivery focussed. Currently, the primary challenges are within the exploitation of large human and model organism data bases, prediction and analysis of gene

in Cardiovascular Discovery Research

function, comparative biology and analysis of complex data sets representing large-scale expression profiling. Active involvement in our genetics initiatives is highly desired. Interaction with AstraZeneca's global Bioinformatics resources to optimally select and integrate new approaches, tools and databases is an important activity. We are looking for a Ph.D./MD with a strong background in biology or medicine with at least five years post-doctoral experience committed to bioinformatics.

Mouse Disease Models (37-6/00)

To develop and strengthen our efforts to explore mouse models to study and understand human pathobiology we invite an experienced Ph.D./MD with a strong background in molecular medicine, genetics and mouse models to lead this initiative. The ambition is to effectively design and generate improved and new animal disease models for identification and validation of novel targets and concepts in cardiovascular and gastrointestinal drug discovery. The experimental programmes will be performed in close collaboration with internal scientists representing our Transgenic Centre and Pharmacology departments and also with leading external scientists.

Mammalian Genetics/Positional Cloning (37-7/00)

To increase our strength in mammalian genetics research we are seeking a senior-level geneticist to join our positional cloning team.

The person appointed will work in ongoing genomic projects to identify cardiovascular disease genes, and will also have a key role in the development of new genetics projects aiming at identifying new therapeutic targets in the cardiovascular and gastrointestinal research areas. The position requires experience in disease gene identification and analysis. Important areas of expertise include genetic and physical mapping, high-throughput DNA sequencing and genotyping, comparative genomics and mutation detection techniques. A successful candidate has a Ph.D./MD with strong background in molecular biology and mammalian genetics, in particular mouse or human genetics.

Molecular Biologists (37-8/00)

To further expand our activities in target discovery and functional genomics we are seeking highly experienced molecular biologists. Key responsibilities for the positions will be to clone full-length cDNAs of candidate target genes, design and production of recombinant DNA vectors for transgene experiments in model organisms and analysis of such models in collaboration with other scientists. Important skills include cloning of cDNA and genomic DNA, DNA sequencing, construction of recombinant vectors and recombinant gene expression. Applicants could have either a BS, MS, Ph.D. or equivalent and also several years of experience from experimental molecular biology.

For further information contact Björn Löwenadler, +46 31 776 24 37, Kristina Forsman-Semb, +46 31 776 28 08 or Lennart Hansson, +46 31 776 27 41.

Send your application marked with the respective number not later than April 17 to AstraZeneca R&D Mölndal, Human Resources, Att: Victoria Persson, SE-431 83 Mölndal, Sweden.

POSITIONS OPEN

MOLECULAR BIOLOGIST who will be responsible for high-throughput sequencing using automated DNA sequencers, mutation and polymorphism detection; full-length cDNA sequence finishing, automation and annotation, microbial and plant genome finishing, shotgun cloning and library construction, DNA purification; PCR and AT cloning, sequence assembly using softwares including Sequencer, Phred/Phrap/Consed, Cap/Gap, sequence analysis using softwares including GCG/SeqLab, DNASTar, Oligo, laboratory data management using applications including Excel, Access, and BioLIMS, sequence processing and automation-related computer programming using languages including Perl, C, and UNIX shell scripting; utilizing principles of coursework in nucleic acids, proteins, biochemical toxicology, and statistical problems in toxicology. Degree requirements include a minimum of a Master of Science degree in biochemistry or toxicology combined with three years and six months of experience in the job offered or three years and six months of experience as an **ASSOCIATE SCIENTIST** and/or **RESEARCH ASSISTANT**. Work experience must have included automated sequencing; cDNA sequence finishing; genome sequence finishing; Sequencer, Phred/Phrap/Consed; and Perl programming as related to automated sequence processing and finishing. Coursework must have included: nucleic acids, proteins, biochemical toxicology, and statistical problems in toxicology. Forty hours per week; 9 a.m. to 5 p.m.; \$58,943.70 per year. St. Louis location. *Must have proof of legal authority to work permanently in the United States.* Send two copies of both résumé and cover letter to: **Missouri Department of Labor and Industrial Relations, Division of Workforce Development, Attention: Ms. J. Gaston, 4040 Seven Hills Drive, Suite 166, Florissant, MO 63033-6700.** Please include Job Number 212182. No calls. *An employer-paid ad.*

ASSISTANT PROFESSOR SENIOR LECTURER

The Department of Biological Sciences at Vanderbilt University invites applications for a nontenure-track position at the level of Assistant Professor or Senior Lecturer. The appointment will be for two years with the possibility of renewal. The successful candidate will be expected to teach an introductory course in the fall semester and one to two other courses in the area of specialty in the spring semester. Preference will be given to applicants who have an active research program in the area of biological clocks and/or photoperiodism and would like to continue research in that area in the laboratories of **Drs. Carl Johnson** and/or **Terry Page**. Applicants can learn more about the Department at our website: <http://www.biosci.vanderbilt.edu>. Applicants should submit curriculum vitae and a description of teaching experience and research interests and arrange to have three letters of recommendation sent by May 1, 2000, to: **Biology Search Committee, Department of Biological Sciences, Box 1634, Station B, Vanderbilt University, Nashville, TN 37235.** *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN SIGNAL TRANSDUCTION Department of Cell Biology Lerner Research Institute Cleveland Clinic Foundation

Overexpression and dominant negative studies have defined an essential role for Ras in controlling a number of biological systems. These approaches, however, do not distinguish Ras isoform-specific functions. We have an NIH-funded postdoctoral position to examine (1) cooperative Ras isoform functions in the transformation process and (2) differences in Ras isoform-specific signaling modules. The successful candidate will have a Ph.D. in biochemistry (or related discipline) and excellent oral and written communication skills. Interested applicants should send their curriculum vitae and a list of three references to: **Dr. Alan Wolfman; e-mail: wolfmaa@ccf.org; FAX: 216-444-9404.** Mail to: Department of Cell Biology, NC10, 9500 Euclid Avenue, Cleveland Clinic Foundation, Cleveland, OH 44195.

POSITIONS OPEN



LECTURER IN MOLECULAR, CELL, AND DEVELOPMENTAL BIOLOGY

One-year Lectureship in molecular, cell, and developmental biology to begin fall 2000; 75% employment. Duties include teaching lecture/laboratory course required for majors, plan and coordinate laboratory activities for multiple sections of major course, participate in ongoing course development, supervise course teaching assistants, manage the acquisition and maintenance of course materials, develop computer applications for the classroom, supervise student projects, maintain office hours, and participate in departmental and advisory committee meetings. Qualifications require a Ph.D. degree in the biological sciences; demonstrated experience in undergraduate teaching at the university level; and experience with design, development, and teaching of laboratory instruction in molecular biology. Level of appointment and salary commensurate with qualifications, experience, and duties.

Send current curriculum vitae, including relevant publications; written statement of teaching interests and background; and the names, addresses, and telephone numbers of three references by May 1, 2000, to: **Molecular, Cell, and Developmental Biology Lecturer Search, University of California, Box 951606, Los Angeles, CA 90095-1606.** *The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

MAMMALIAN SYSTEMATIST

Applications are invited for a full-time permanent GS-12/13 position as **RESEARCH ZOOLOGIST** with the U.S. Geological Survey (USGS) Patuxent Wildlife Research Center stationed in the Smithsonian Institution's National Museum of Natural History, Washington, D.C. Incumbent must have a Ph.D. degree in zoology or related discipline OR appropriate training and experience, which includes specimen-based research on mammalian systematics. Incumbent will develop a program of research founded on systematics, biogeography, and biodiversity of mammals with emphasis on but not limited to North American species. Scope of research includes site- and problem-specific studies at regional, national, and international scales. Incumbent serves USGS and the scientific community as an authority on mammals and represents USGS in contacts with other agencies and organizations on matters involving policies and programs, application of research results, and coordination in the field of wildlife research. Incumbent will publish results of research in peer-reviewed journals and present findings at professional meetings. Incumbent may be expected to travel as a representative of USGS and in the course of research activities. Salary commensurate with experience (GS-12 salary range is \$51,204 to \$66,564; GS-13 salary range is \$60,890 to \$79,155). Generally, first-time federal employees are hired at the entry-level salary for the grade level at which they are appointed. Contact the USGS Office of Personnel at **Telephone: 703-648-6131** to receive a complete vacancy announcement that includes a full description of the job and qualification requirements (including knowledge, skills, and abilities [KASOCs] required for this position) and application and evaluation procedures. Applications (Optional Application for Federal Employment OF-612 or résumé) must be received at the address below by May 11, 2000, and should reference H-00-905. A narrative qualifications statement addressing the KASOCs also should be submitted by the above date and will be used in evaluation of candidates. **Address: U.S. Geological Survey, Office of Personnel, Staffing Services Branch, MS601, Reston, VA 20192.**

The USGS is an Equal Opportunity Employer. U.S. citizenship is required.

POSITIONS OPEN

MOLECULAR AND CELLULAR PHYSIOLOGY STANFORD UNIVERSITY School of Medicine

Mechanisms of Molecular and Cellular Function in Biological Systems

The Department of Molecular and Cellular Physiology at Stanford University School of Medicine has openings for two full-time, tenure-track positions to be filled at either the **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** rank for investigators of mechanisms of molecular and cellular function in biological systems. Within this broad scope, the following research areas will be considered but not limited to: signal transduction, second-messenger control of gene expression, communication and interaction between cells, establishment and maintenance of cell morphology, neurophysiology and synaptic plasticity, and membrane transport and excitable membranes. Individuals with multidisciplinary approaches using some combination of biochemical, structural, genetic, electrophysiological, biophysical, transgenic, genomic, and imaging techniques are encouraged to apply. Candidates should have a strong record of research accomplishment. The individuals filling these positions will play a major role in the research, graduate training, and teaching programs of the Department.

The Department of Molecular and Cellular Physiology offers an outstanding environment for basic biomedical research, state-of-the-art scientific resources, and a wide variety of opportunities for research collaborations. Current research interests of the faculty focus on: how channels and G protein-coupled receptors work at the molecular level and their role in physiological processes (**R. Aldrich, B. Kobilka, R. Lewis, R. Tsien, W. Weis**); the cellular basis of synapse development, cell-cell interactions, and neurotransmitter release (**W. Nelson, R. Scheller, S. Smith, R. Tsien, W. Weis**); mechanisms involved in vesicle trafficking in cells, including polarized neurons and epithelial cells (**B. Kobilka, W. Nelson, R. Scheller, S. Smith, W. Weis**); and synaptic transmission and cellular forms of memory (**D. Madison, R. Tsien, R. Scheller**).

Applicants are encouraged to submit curriculum vitae, a bibliography, a brief (one to two pages) description of research interests and future plans, and three letters of recommendation to:

Dr. Richard W. Aldrich
Chair, Search Committee
c/o Ruth Ong
Department of Molecular and Cellular Physiology
Beckman B-171
Stanford, CA 94305-5345

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

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

We are seeking a **POSTDOCTORAL FELLOW** to study virus receptor proteins (including DAF and CAR) and bacterial receptor proteins (including CD14, TLRs, and other pattern recognition proteins) and their roles in viral and bacterial pathogenesis, using human cells and mouse models.

Candidates should have a Ph.D. or M.D. degree or have completed degree requirements. Experience in molecular biology and/or biochemistry and publication of papers in the areas of receptor biochemistry and/or cell signaling required. Those interested should send curriculum vitae and names of three references by e-mail, FAX, or mail to:

Robert Finberg, M.D.
Chair, Department of Medicine
University of Massachusetts Medical School
55 Lake Avenue North
Worcester, MA 01655
FAX: 508-856-5090
E-mail: Robert.Finberg@UMASSMED.edu



SERVIER

SERVIER Research Group

The leading independent French Pharmaceutical company

In our Research

center near Paris,

a major and

expanding

scientific and

medical hub

within Europe,

and within easy

reach of the

French

countryside,

we offer :

Our company, France's 3rd pharmaceutical group, which employs 12 000 people world-wide, has achieved a turnover of 10 billion French Francs in 1999. This success depends upon the dynamism of our research directed towards the discovery of novel drugs, mainly in diabetes, cardiovascular disease, neuroscience, oncology, bone and joint disease. Thanks to its 2 000 specialised researchers, our growing company has a pipeline of drugs in development.

NEW POSITIONS IN CANCER GENOMICS, PROTEOMICS AND SIGNALLING

***Molecular biologists preferably with experience of genome analysis and array technologies (ref : P04/01)**

***Protein biochemists with experience in analysis of protein expression, the identification of novel proteins and/or molecular modelling (ref : P04/02)**

***Biochemists/molecular biologists with proven abilities in the analysis of signalling cascades (ref : P04/03)**

You will join an expanding and multidisciplinary team pursuing the search for new approaches to cancer treatment. Our company provides an atmosphere that encourages publication and collaboration, and our material and technical facilities are excellent. The successful candidates are innovative, enthusiastic and hard-working Scientists, with normally at least six years postdoctoral experience, a strong publication record. Industrial experience would be an advantage.

Graduate scientists (technicians) are also sought to support the molecular biology efforts of the team.

Interested candidates should send their letter of application, along with their curriculum vitae and photo to : Dr. Jean-Pierre LAFITE, IDPS, 11, rue des Moulineaux - 92150 SURESNES - FRANCE
fax : 01 47 33 60 00 - e-mail : recrutement@servier.com - website : www.servier.com

POSITIONS OPEN

The Departments of Medicine and Radiology at Columbia University College of Physicians and Surgeons seeks candidates for a **POSTDOCTORAL** or **ASSOCIATE RESEARCH SCIENTIST** position. Salary will be commensurate with experience. Applicants must have a Ph.D. or equivalent degree and research experience in *in vivo* nuclear magnetic resonance (NMR) imaging and spectroscopy. Knowledge of multinuclear NMR and, in particular, of sodium NMR would be an asset. The successful candidate will be intimately involved with the further development and application of proton and sodium NMR techniques to the cardiovascular system, as well as to cancer and other clinically relevant programs. He/she will also be involved with biological studies of relevance to these investigations. Research will be carried out mostly on the high-field (4.23T) whole-body MRI system at Columbia University. Applicants should send curriculum vitae, a list of references, and one relevant manuscript to: **Dr. Jose Katz, Division of Cardiology, Department of Medicine, 630 West 168th Street, New York, NY 10032. FAX: 212-305-4648; e-mail: jk32@columbia.edu; Telephone: 212-305-9008 or Dr. Ed X. Wu, Hatch NMR Research Center, Department of Radiology, Unit 63, 710 West 168th Street, New York, NY 10032. FAX: 212-305-9785; e-mail: xew1@columbia.edu; Telephone: 212-305-1840. Website: <http://lucas.cpmc.columbia.edu>. We take Affirmative Action toward Equal Employment Opportunity. Women and minorities are encouraged to apply.**

ANIMAL PHYSIOLOGIST CELLULAR/MOLECULAR BIOLOGIST

The Biology Department at Lake Forest College seeks two full-time **VISITING ASSISTANT PROFESSORS** for noncontinuing leave-replacement appointments. Animal Physiologist for 2000-2001 academic year; Teaching duties include animal physiology course with laboratory for juniors and seniors in fall semester and introductory organismal biology in spring semester. Additional courses may be an advanced course in comparative animal physiology in spring and a senior seminar on a specialized topic in fall, depending on interests of the successful candidate. Cellular/Molecular Biologist for spring semester 2001: Teaching duties include a cellular and molecular biology course for sophomores, plus a lecture/laboratory course for juniors and seniors in this general area of biology. Small class sizes are typical, and laboratory assistance is available. Ph.D. and teaching experience required. Send application letter specifying either position description and curriculum vitae including description of teaching philosophy by e-mail: zamer@lfc.edu; have three reference letters sent to: **Dr. William E. Zamer, Department of Biology, Lake Forest College, 555 North Sheridan Road, Lake Forest, IL 60045. Review of applications will begin on April 14, 2000. Applications from minorities and women are encouraged.**

EVOLUTIONARY BIOLOGIST: one-year appointment with possible renewal. Experience with molecular techniques preferred. Appointee will teach courses in evolutionary biology and comparative vertebrate anatomy, participate in an innovative interdisciplinary core course in the natural sciences, may participate in a cell/molecular biology course, and will supervise student research. Ph.D. required. Submit letter of application, curriculum vitae, unofficial transcripts, and have three letters of recommendation sent to: **Dr. James P. White, Dean, School of Arts and Sciences, St. Bonaventure University, St. Bonaventure, NY 14778. FAX: 716-375-7665. Review will begin May 1, 2000. Affirmative Action/Equal Employment Opportunity Employer.**

POSTDOCTORAL POSITION available to study neuroendocrine mechanisms of reproduction using anatomical, molecular biological, and physiological approaches. Background in molecular biology is desirable. Please send curriculum vitae and names of three references to: **Lothar Jennes, Ph.D., Department of Anatomy and Neurobiology, University of Kentucky, Lexington, KY 40536. E-mail: ljenn0@pop.uky.edu. Equal Opportunity Employer.**

POSITIONS OPEN



CURATION AND BIOINFORMATICS POSITIONS AT THE RAT GENOME DATABASE

The Bioinformatics Research Center, Medical College of Wisconsin, is seeking candidates in the fields of data curation and bioinformatics to work on rapidly expanding rat genome database (RGD). The RGD project is charged with the organization, collection, and distribution of all rat genetic and genomic information. The following positions are available:

CURATOR (two positions): Successful candidates will be primarily responsible for data acquisition and analysis, evaluating and annotating data to be incorporated into the databases. They will also work with the informatics staff in the development of new and existing RGD data analysis tools. Applicants should have experience with molecular biology or mammalian systems and be versed in genetics, genomics, cellular, or developmental biology. Ph.D. in life sciences or M.S. with appropriate experience preferred.

BIOINFORMATICS (three positions): Successful candidates will be involved in the development of the informatics infrastructure and software tools required by the rat genome database. Proficiency with Perl, CGI, and relational database design and implementation (preferably Oracle) required. A background in biology/genetics would be highly advantageous. Master's in computer science or a biological science (with strong computational background) required.

For additional information, see website: <http://rgd.mcw.edu/jobs/index.html>. Applications should be sent to: **Sandra Stryker, Bioinformatics Research Center, Medical College of Wisconsin, 8701 West Watertown Plank Road, Milwaukee, WI 53206.**

The Medical College of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

An individual with experience in tissue culture and molecular biology techniques including molecular cloning, Southern hybridization, and PCR analysis is sought to work in the Gene Targeting Facility of NIAID. Experience in generating transgenic and gene knockout mice is particularly welcome. Will be recruiting for one position and will fill it in one of two ways, either as a **BIOLOGIST/MICROBIOLOGIST/CHEMIST GS-7/9/11 (\$28,866 to \$55,541)** and the other as a **RESEARCH FELLOW**. The GS position requires U.S. citizenship as a permanent position. Mail résumé and three letters of recommendation to: **Joann Martin, NIAID, Building 10, Room 7A27, 31 Center Drive, Bethesda, MD 20892. Telephone: 301-496-4634. Please include Announcement Number AI-00-059. Please call the above number for the detailed vacancy announcement. Closing Date: April 21, 2000. The Research Fellow position does not require citizenship and is not a permanent position. Salary for the Research Fellow will be based on education and experience. Please mail résumé and three letters of recommendation to: **Dr. Hua Gu, Laboratory of Immunology, DIR, NIAID, NIH, 12441 Parklawn Drive, Rockville, MD 20852 U.S.A. (Announcement Number AI-00-059). E-mail: hgu@niaid.nih.gov. Closing date: April 21, 2000. NIH is an Equal Employment Opportunity Employer.****

POSTDOCTORAL POSITIONS to study intracellular transport and cytoskeletal organization. Opportunities to focus on either basic mechanisms or applications that involve cell motility in cancer, atherosclerosis, or inflammation. Please send curriculum vitae with names of three references to: **Victor Hsu, M.D., Harvard Medical School, Brigham and Women's Hospital, One Jimmy Fund Way (Smith 538B), Boston, MA 02115. FAX: 617-525-1104; e-mail: vhsu@rics.bwh.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION MOLECULAR GENETICS

Postdoctoral position available immediately to study mechanisms of a novel oncogene that has important roles in angiogenesis of human tumors. We are studying its role in normal and abnormal cell growth. Projects include protein-protein interactions, signal transduction, and identification of downstream genes. Applicants require a Doctoral degree and an excellent background in molecular, cellular, and tumor biology. Applicants should not be more than five years beyond the most recent Doctoral degree. Send curriculum vitae to: **Thomas F. Deuel, M.D., Director, Division of Growth Regulation, Beth Israel Deaconess Medical Center, Research East-213, 41 Avenue Louis Pasteur, Boston, MA 02115.**

STAFF SCIENTIST. The Ernest Gallo Clinic and Research Center, a biomedical research institution affiliated with the University of California San Francisco, is undergoing substantial growth and expansion of its laboratories. We seek innovative and dynamic individuals for the following positions: Staff Scientists at all levels (B.S./M.S. or Ph.D.) interested in using microarrays to identify genes involved in drug addiction in *Drosophila*. The successful applicants should possess good molecular biology skills (DNA/RNA), strong analytical/computational skills, and working experience with performing gene expression analyses preferred (for further information, visit our website: <http://gallo.ucsf.edu>). Please send curriculum vitae, description of prior research, and names of two academic references to: **Human Resources, Ernest Gallo Clinic and Research Center, University of California San Francisco, 5858 Horton Street, Suite 200, Emeryville, CA 94608. FAX: 510-601-7943; e-mail: hr@gallo.ucsf.edu. We are an Equal Opportunity Employer/Affirmative Action Employer committed to workforce diversity.**

POSTDOCTORAL POSITION/ IMMUNOLOGY

Yale University School of Medicine

Ph.D. or M.D./Ph.D. position to study autoimmune T-B cell collaboration or $\gamma\delta$ T cell regulation in autoimmunity and pathogen resistance (see website: http://info.med.yale.edu/immuno/fac_craft.html). Experience and/or interest in T cell cloning, costimulatory factors, apoptosis, and/or animal models of autoimmunity necessary. Send curriculum vitae and research interests to e-mail: joseph.craft@yale.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS FUNCTIONAL GENOMICS

Postdoctoral positions in functional genomics/proteomics are available immediately. Candidates should be highly motivated with a strong background in molecular biology or informatics. Send research interests, curriculum vitae, and three references to: **C. Wilson Xu, Ph.D., Sloan-Kettering Institute and Graduate School of Medical Sciences of Cornell University, 1275 York Avenue, New York, NY 10021. FAX: 212-639-2767; e-mail: w-xu@ski.mskcc.org.**

POSTDOCTORAL POSITION WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

A Postdoctoral position is available for the study of the human genetic disorders of iron and copper metabolism (see *PNAS* 96:13363 and 97:2886). Experience in molecular biology and transgenic animals required. Send curriculum vitae and references to: **Jonathan Gitlin, M.D., Department of Pediatrics, St. Louis Children's Hospital, One Children's Place, St. Louis, MO 63110. E-mail: gitlin@kids.wustl.edu. Washington University is an Equal Opportunity Employer.**

GLOBAL OPPORTUNITIES

National Health Research Institutes (NHRI) Taiwan, R.O.C.

Epidemiologists Wanted

Epidemiologists are wanted at postdoctoral up to research leadership levels at the Division of Clinical Research, National Health Research Institutes (NHRI), Taipei, Taiwan. We are studying and contributing toward improving the serious problem of antibiotic resistance in Taiwan. A national surveillance system of bacterial isolates from 44 out of 65 major hospitals has been established. Ongoing projects are in the areas 1) epidemiology of antibiotic resistance in different types of bacterium-antibiotic combinations and in different populations, type and location of hospitals and in hospital acquired infections; 2) epidemiology of antibiotic resistance in domestic feed animals; 3) epidemiology of antibiotic usage in the community and in hospitals and its correlation with antibiotic resistance.

Applicants for junior positions should have a master's or Ph.D. degree in epidemiology with strong computer competence and preferably but not necessarily a background in infectious diseases. Applicants for senior positions should be physicians or Ph.D. degree holders in epidemiology. Familiarity with microbiology and infectious diseases is desirable. Senior applicants must show evidence of having designed and carried out epidemiological studies.

NHRI is an equal opportunity mission oriented research institution with a staff of 400. Salaries are internationally competitive.

Interested candidates should send their c.v. to:

Dr. Monto Ho

National Health Research Institutes

128 Yen-Chiu-Yuan Road, Sec II,

Taipei 115, Taiwan, R.O.C.

Tel : 886-2-2652-4090; Fax: 886-2-2789-0254

E-mail: monto@mail.nhri.org.tw

NHRI Web site—<http://www.nhri.org.tw/en>

EUROPEAN OPPORTUNITIES



Fundación Marcelino Botín

GENE THERAPY FOUR POSITIONS OPEN

The Fundación Marcelino Botín invites applications for two Project Leader positions and two Associate positions, to begin from January 2001. Incorporated scientists will be part of a new Gene Therapy Program at the CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas) Madrid.

All candidates must be Spain citizens, have a PhD degree, at least 4 years of post-doctoral or equivalent experience in the field of Gene Therapy and a strong publication record. Candidates will be expected to interact closely with basic and clinical researchers.

Please state the position of interest and send a detailed CV with three letters of reference and a statement of present and future research interest to Fundación Marcelino Botín "Proyecto Terapia Génica", Pedrueca, 1. (39003) Santander (España). Candidates to Project Leaders should also include a brief report summarising a suggested Project to be developed at the CIEMAT.

For more information of these positions

Web: <http://www.fundacionmbotin.org>

Tel: +34-942-22.60.72

Fax: +34-942-22.60.45

E-mail: subdireccion@fundacionmbotin.org



EUROPEAN
SCHOOL OF HAEMATOLOGY



EUROPEAN
HAEMATOLOGY ASSOCIATION

FIRST ESH-MD ANDERSON CANCER CENTER CONFERENCE ON MECHANISMS OF CELL DEATH AND DISEASE : ADVANCES IN THERAPEUTIC INTERVENTION

13-17 May 2000 - Dublin, Ireland

Chairs : T.J. McDonnell, K-M. Debatin, J. Hickman

With the support of CEC and the Ares-Serono Foundation

This conference will focus on the clinical implications and applications of recent findings in the field of cell death research.

TOPICS :

INFECTIOUS DISEASE AND THE IMMUNE SYSTEM,
CANCER, NEURODEGENERATIVE DISEASES

INTERNATIONAL CONFERENCE ON CHRONIC MYELOID LEUKAEMIA

22-25 September 2000 - Portofino, Italy

Chairs : A.M. Carella, J.M. Goldman

TOPICS :

MOLECULAR AND CELL BIOLOGY,
IDENTIFICATION OF PHILADELPHIA-NEGATIVE CELLS :
USE OF ANIMAL MODELS,
GVL/GVHD, INTERFERON-ALFA,
STI-571 AND OTHER NEW AGENTS, BCR-ABL VACCINATION,
ALLOGRAFTING AND MINI-ALLOGRAFTING, AUTOGRAFTING

SECOND EUROCONFERENCE ON IMMUNOBIOLOGY OF TRANSPLANTATION : FROM BASIC SCIENCE TO PRATICAL MEDICINE

With the support of CEC

11-13 November 2000 - Porto, Portugal

Chairs : H. Alves, D. Charron, J.J. Van Rood

TOPICS :

IMMUNOGENETICS OF HISTOCOMPATIBILITY,
IMMUNE REGULATION,
IMMUNE RECONSTITUTION AND MONITORING,
IMMUNOGENETICS OF TRANSPLANTATION

For further information : EUROPEAN SCHOOL OF HAEMATOLOGY
Centre Hayem, Hôpital Saint-Louis - 1, avenue Claude-Vellefaux, 75475 Paris cedex 10, France
Tel. (33)1 42 06 65 40 - Fax (33)1 42 06 05 87
e.mail : ghyslaine@esh.org OR eshdi@chu-stlouis.fr - visit our website : www.esh.org

POSITIONS OPEN

POSTDOCTORAL FELLOW ANTISOCIAL DRUG DEPENDENCE GENETICS AND TREATMENT

Studies of the behavioral genetics of clinical psychiatric disorders require interdisciplinary teams of molecular geneticists, behavioral geneticists, and clinical researchers. The Institute for Behavioral Genetics, the Department of Psychiatry's Division of Substance Dependence, and the Department of Molecular, Cellular, and Developmental Biology of the University of Colorado (Boulder and Denver campuses) are collaborating in twin and adoption studies and QTL sibling analyses of clinical populations aimed at defining genetic mechanisms and gene loci contributing to the clinical conditions of conduct disorder, antisocial personality disorder, and substance dependence. Positions are open for Postdoctoral Fellows in psychiatry, psychology, behavioral genetics, and molecular genetics, supported by National Institute on Drug Abuse. Senior faculty include T. J. Crowley, P. D. Riggs (Psychiatry); J. K. Hewitt, R. P. Corley, M. C. Stallings (Behavioral Genetics); E. A. Whitmore (Clinical Psychology); L. L. Thompson (Neuropsychology); and K. S. Krauter (Molecular Genetics). Interested U.S. citizens and permanent residents should send a letter of interest, including career goals, curriculum vitae, and three letters of reference, to: Thomas J. Crowley, M.D., Department of Psychiatry, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Box C268-35, Denver, CO 80262. Review of applications will continue until a suitable candidate is identified and the position filled. *The University of Colorado is an Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE

We seek a qualified Postdoctoral candidate to study the molecular basis of integral membrane protein sorting to the inner nuclear membrane. A novel photo cross-linking technology will be used to identify proteins that mediate sorting by comparing protein trafficking and interactions in viral-infected and uninfected cells. Training and experience in protein biochemistry are strongly preferred. This position is available immediately. Salary commensurate with experience. Please send résumé and the names of three references to either:

Dr. Arthur E. Johnson
College of Medicine
Texas A&M University System
Health Science Center
116 Reynolds Medical Building
College Station, TX 77843-1114
E-mail: aejohnson@tamu.edu

Website: <http://tamushsc.tamu.edu/aejohnson/home/index.html>

OR
Dr. Max D. Summers
Department of Biochemistry and Biophysics
Texas A&M University
Minnie Belle Heep Building, Room 324
College Station, TX 77843-2475
E-mail: m-summers@tamu.edu
Website: <http://www.bio.tamu.edu/FACMENU/faculty/summers.htm>

Two POSTDOCTORAL POSITIONS are available in the Boyer Center for Molecular Medicine at Yale University to study immune cell-endothelial cell interactions and adhesion biology in the context of allograft and xenograft rejection. Specific areas include leukocyte integrin regulation and function, T cell costimulation, endothelial MHC gene regulation, and NK cell biology. Candidates with a strong background in molecular immunology are encouraged to apply. Interested candidates should send curriculum vitae and direct inquiries to: Jeffrey R. Bender, M.D., Boyer Center for Molecular Medicine, 454C, P.O. Box 9812, 295 Congress Avenue, New Haven, CT 06536-0812. E-mail: jeffrey.bender@yale.edu.

POSITIONS OPEN



Two POSTDOCTORAL POSITIONS in muscle biology are currently available for highly motivated individuals to study transcription factors and gene expression in skeletal muscle during hypertrophy, atrophy, and sarcopenia in animal models. Candidates will have a Ph.D. and/or M.D. degree, and they must demonstrate the capability to work independently. Preferred candidates will have a background in biochemistry, neuroscience, exercise physiology, or aging, but this is not essential. One position requires experience in cell culture, immunocytochemistry, and *in situ* hybridization. The other position requires experience in molecular biological techniques. Please send curriculum vitae, a brief summary of research experience and interests, and the names and addresses of three references to: Stephen Alway, Ph.D., Associate Professor and Director of Graduate Studies, Division of Exercise Physiology, Department of Human Performance and Exercise Science, School of Medicine, Robert C. Byrd Health Science Center, West Virginia University, Box 9227, Morgantown, WV 26506-9227. FAX: 304-293-7105; e-mail: salway@hsc.wvu.edu. *WVU is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION CELL AND MOLECULAR BIOLOGY/NEUROBIOLOGY

We seek an individual with a Ph.D. in cell/molecular biology or neurobiology for a funded project that focuses on the role of corneal Schwann cell in affecting the extracellular environment and the modulation of epithelial and stromal cell behaviors by neuropeptides. The position is immediately available and offers a unique interdisciplinary training opportunity with interactions among faculty in the Schools of Veterinary Medicine and Medicine. A background in both cell/molecular biology and the generation of transgenic/knockout murine lines would be most desirable. Please submit curriculum vitae, a letter describing your interests and relevant experiences, and the names of three references to: Dr. Christopher J. Murphy, Department of Surgical Sciences, School of Veterinary Medicine, 2015 Linden Drive, University of Wisconsin-Madison, Madison, WI 53706. Telephone: 608-265-2454; e-mail: murphyc@svm.vetmed.wisc.edu. *The University of Wisconsin is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION AT THE NIH

The Radiation Oncology Branch, Division of Clinical Sciences, National Cancer Institute, NIH, seeks candidates with credentials in molecular biology and biochemistry for a Postdoctoral position. Experience in molecular mechanisms involved in the radiosensitization of prostate cancer cells by nonsteroidal anti-inflammatory agents and/or in NFκB biology is required. Candidates must have a Ph.D. in biology. If interested, please send a cover letter and your curriculum vitae to: Nancy Kesteven, Radiation Oncology Branch, NCI, Building 10, Room B3B69, 10 Center Drive MSC 1002, Bethesda, MD 20892-1002. Telephone: 301-496-5457; FAX: 301-480-5439. *NIH is an Equal Opportunity Employer.*

POSTDOCTORAL TRAINING: regulation of prohormone processing and targeting. An NIH-funded postdoctoral training program is available in the laboratories of Dr. David V. Cohn (protein processing) and Dr. Sven-Ulrik Gorr (protein targeting). Project focuses on the role of protein processing in the targeting of secretory proteins in endocrine and neuroendocrine cells (see website: <http://www.louisville.edu/dental/bbs.sven.htm>). *U.S. citizenship or permanent residency required.* Preference given to candidates with experience in biochemistry, cell, and molecular biology. Respond to e-mail: dvcohn@louisville.edu.

POSITIONS OPEN

POSTDOCTORAL TRAINING in the functional genomics of plant-insect interactions. The NSF-supported Research Training Program in Plant-Insect Interactions at the University of Arizona invites applications from prospective POSTDOCTORAL FELLOWS. We are particularly interested in identifying candidates to employ functional genomics to analyze the interactions of lepidopteran and homopteran herbivores with host plants. Individual projects include but are not limited to studies of gene expression (1) within generalist and specialist insect pests, (2) associated with insect digestive and olfactory processes, and (3) involved with the transmission of phytopathogenic agents. Salary range is \$25,500 to \$36,000 based on years of postdoctoral experience. Further information can be obtained from our website: <http://ag.arizona.edu/pii-rtg> or from Human Resources at website: <http://www.hr.arizona.edu>. To apply, send a statement of research accomplishments and aspirations; a résumé; and names of three references to: Plant-Insect Interactions Interdisciplinary Program, Attention: Dr. David Galbraith, 303 Forbes Building, University of Arizona, Tucson, AZ 85721. Please reference Job Number 17803. Review of applications will begin April 24, 2000, and will continue through December 31, 2000. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans. Applicants must be citizens or permanent residents of the United States.*

POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL

Immediate positions available to study the mechanisms of Ebola virus entry, the interplay between host and signaling mechanism(s) involved in HIV-1 infection, and strategies for the gene therapy of AIDS. Projects include the use of our 15 billion member human sFv-phage display library for the isolation and *in vitro* and *in vivo* testing of intracellular antibodies as discovery tools to delineate mechanisms of viral pathogenesis (*Gene Therapy* 4:11, 1997; *J. Immunol. Meth.* 231:207, 1999). Moloney and lentivirus vectors are used for *in vivo* delivery of intracellular antibodies to evaluate their use as gene therapeutics for AIDS (*Mol. Med.* 2:96, 1997; *Human Gene Therapy* 10:1453, 1999; *ibid.* 10:2505, 1999; *J. Immunol. Meth.* 231:223, 1999). Recent Ph.D. and experience in molecular virology/immunology are required. Send curriculum vitae, brief description of research experience, and names of three references to: Dr. Wayne A. Marasco, Dana-Farber Cancer Institute, JF 824, 44 Binney Street, Boston, MA 02115. FAX: 617-632-3889. *Equal Opportunity Employer.*

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Position with excellent salary available in gene therapy and tissue engineering of the skin. Projects focus on manipulation of skin function by genetic modification (*Hu. Gene Therapy* 9:529, 1998) and microfabrication (*FASEB J.* 14:593, 2000). Background in molecular/cellular biology, immunology, or bioengineering required. Send curriculum vitae and names of three references to: Jeff Morgan, Ph.D., Shriners Hospital for Children, 51 Blossom Street, Boston, MA 02114.

POSTDOCTORAL POSITION available to study the role of paxillin and associate proteins in integrin-mediated cell adhesion, growth factor signaling, and cytoskeletal organization (see *J. Cell. Biol.* 145:851-863). Experience in cell biology and/or molecular biology techniques essential. A background in cell adhesion/signaling desirable. Send curriculum vitae and names of references to: Dr. Chris Turner, Department of Cell and Developmental Biology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210. *An Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act Employer committed to excellence through diversity.*

2000 CRC Senior Cancer Research Fellowships

The Cancer Research Campaign is the largest supporter of cancer research in British universities and medical schools and is committed to developing the next generation of leaders in the field of cancer research.

The Campaign is pleased to invite preliminary applications for its Senior Cancer Research Fellowships. The aim of this fellowship scheme is to support outstanding young investigators who have shown special promise in their initial studies in a cancer relevant research field and to provide them with an opportunity to establish an independent research group.

Candidates should have a PhD, have completed at least 3 years' postdoctoral experience and should not normally be over 35 years of age. However, equal consideration will be given to those over this age where their career has been affected either by a late start, or by interruption for personal or family reasons. Applicants should not currently hold a tenured position at the proposed host institution.

The CRC Senior Cancer Research Fellowships may be held in any CRC-funded research institute, laboratory or research group, or alternatively in an appropriate UK university department, subject to the usual CRC funding restrictions.

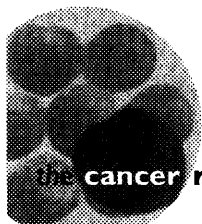
The fellowship will provide personal support for the CRC Senior Cancer Research Fellow, research assistance, consumable costs and a set-up equipment grant in the first year. The Fellows will also have the opportunity to apply for additional support (running costs for externally funded postdoctoral scientists, studentships and equipment) from the Campaign during the course of the fellowship. The award will be tenable for six years in the first instance. The fellowship will be renewable after a successful bid for programme grant funding during the course of the fellowship and the potential exists for negotiations with the host institution to secure a tenured appointment. The Campaign hopes to appoint five Senior Cancer Research Fellows to commence in the year 2001.

Applicants are invited to submit a two page preliminary proposal outlining their proposed programme of research, an indication of the likely host institution should be included, plus a full CV. Successful applicants will then be invited to submit a full application.

For further information, please contact Dr Lynn Turner on 020 7317 5178, e-mail: ltturner@crc.org.uk, or write to:

The Cancer Research Campaign, 10 Cambridge Terrace, London NW1 4JL.

Closing date for preliminary applications: Friday 26th May 2000.



the cancer research campaign

MEETINGS



**BRITISH ASSOCIATION
FOR CANCER RESEARCH**

2000 Meetings

BRITISH CANCER RESEARCH MEETING 2000

9-12 July 2000

University of Sussex, Falmer, Brighton, UK

BACR/MEG-UKEMS CONFERENCE

*Applicability and Relevance of Methods Used for
Molecular Cancer Epidemiology*

21-23 September 2000

Low Wood Hotel, Lake Windermere, Cumbria, UK

BACR SPECIAL CONFERENCE/ 7th EUROPEAN WORKSHOP ON Cytogenetics and Molecular Genetics of Human Solid Tumours

7-10 September 2000

Edinburgh Conference Centre at Heriot-Watt University

For further details on meetings and other activities of the
British Association for Cancer Research contact:

BACR Secretariat

c/o Institute of Cancer Research, 15 Cotswold Road, Sutton
Surrey SM2 5NG, UK

Tel: +44 (0) 20 8722 4208 Fax: +44 (0) 20 8770 1395

e-mail: bacr@icr.ac.uk

Web site: <http://www.icr.ac.uk/bacr/home.htm>

SYMPOSIUM



PLURIPOTENT STEM CELLS: PROPERTIES, THERAPEUTIC PERSPECTIVES AND ETHICAL QUESTIONS

*International symposium organized by the
Marcel Mérieux Foundation*

Les Pensières, Veyrier-du-Lac (near Annecy, French Alps)

21-23 June 2000

The purpose of the symposium is to define the state of the art in pluripotent stem cells research in animals and humans and promote collaboration; to discuss the therapeutic applications of pluripotent stem cells; to facilitate discussion between bioethicists and researchers, towards the harmonisation of regulation relating to research and therapeutics concerning embryonic stem cells.

Information and registration

Fondation Mérieux

17 rue Bourgelat, BP 2021, 69227 Lyon Cedex 02, France.

Fax: 33 (0) 4 7240 79 50

E-mails: bdodet@fond-merieux.org &
symposium@fond-merieux.org

Web site: <http://www.fond-merieux.org>

POSITIONS OPEN

POSTDOCTORAL POSITION CELL AND MOLECULAR BIOLOGY/MATERIALS SCIENCE

We seek an individual with a Ph.D. in cell/molecular biology or materials science for a funded project that focuses on the interaction of cells with nanostructured surfaces. The approach combines the design of nanostructured surfaces with state-of-the-art cell/molecular biology approaches to investigate the modulation of cell behaviors via the underlying substrate. The position is immediately available and offers a unique interdisciplinary training opportunity with interactions among faculty in the College of Engineering and the Schools of Medicine and Veterinary Medicine. A background in both cell/molecular biology and engineering would be most desirable.

Please submit curriculum vitae, a letter describing your interests and relevant experiences, and the names of three references to: **Dr. Christopher J. Murphy, Department of Surgical Sciences, School of Veterinary Medicine, 2015 Linden Drive, University of Wisconsin-Madison, Madison, WI 53706. Telephone: 608-265-2454; e-mail: murphyc@svm.vetmed.wisc.edu. The University of Wisconsin is an Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is available to study alcohol and anesthetic actions on neurotransmitter-gated ion channels using patch clamp electrophysiological recording. A strong background in neurophysiology or neuropharmacology is required. Applicants must have fewer than five years of postdoctoral experience. Salary range is from \$30,000 to \$36,000 depending upon experience.

Send curriculum vitae and three letters of reference to:

Dr. Robert W. Peoples
Unit on Cellular Neuropharmacology
LMCN/NIAAA/NIH
Park 5 Building, Room 158
12420 Parklawn Drive MSC 8115
Bethesda, MD 20892-8115
E-mail: bpeoples@helix.nih.gov

POSTDOCTORAL POSITIONS IMMUNOLOGY AND GENE THERAPY UNIVERSITY OF PENNSYLVANIA

Two Postdoctoral positions are available to study (1) molecular mechanisms of tumor-mediated immune suppression and cancer gene therapy (**Eck**) and (2) apoptosis and autoimmune diseases (**Chen**). A strong background in molecular biology techniques and immunologic methods is preferred. Send curriculum vitae and names of three references to: **Dr. Stephen L. Eck or Dr. Youhai Chen, University of Pennsylvania School of Medicine, 512 BRB II/III, 421 Curie Boulevard, Philadelphia, PA 19104-6160. E-mail: eck@mail.med.upenn.edu or yhc@mail.med.upenn.edu.**

POSTDOCTORAL POSITION available to study the role that intracellular signaling pathways play in malignant cell growth and immune function. We focus on the regulation of transcription factors, such as STATs, with a goal of developing novel antineoplastic and immunomodulatory strategies. Please send curriculum vitae, statement of research interests, and names of three references to: **David Frank, M.D., Ph.D., Dana-Farber Cancer Institute, Harvard Medical School, 44 Binney Street, Boston, MA 02115. E-mail: david_frank@dfci.harvard.edu. Equal Opportunity Employer.**

POSTDOCTORAL: immediate opening; prefer experiences in immunohistochemistry, *in situ* hybridization, electrophoresis, DNA analysis, cell culture, cytogenetic analysis. Research in carcinogenesis, gene damage, and AIDS-related project. Send curriculum vitae with a cover letter summarizing expertise, career goal, and references to: **Jiang Gu, M.D., Ph.D., Professor, Department of Biomedical Sciences, UCOM 6000, University of South Alabama, Mobile, AL 36688 U.S.A. E-mail: jgu@usmail.usouthal.edu.**

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

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

<http://www.training.nih.gov>

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

POSITIONS AVAILABLE POSTDOCTORAL AND RESEARCH SPECIALIST

Two Postdoctoral positions are currently available to study the mechanisms of amyloid accumulation and pathogenesis in Alzheimer's disease and the structure and assembly of amyloid fibrils. One position is for a Cell Biologist or Biochemist with a background in protein trafficking and processing. Expertise in cell culture, immunoprecipitation, and subcellular fractionation is preferred. A background in biophysics or biochemistry is desired for the second position. These Research Specialist positions require three or more years of postdoctoral experience. Qualified applicants should send curriculum vitae and the names of three references to:

Dr. Charles Glabe
Department of Molecular Biology and Biochemistry
University of California, Irvine
Irvine, CA 92697-3900

Applications close April 30, 2000.

The University of California is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL POSITIONS are now available in the National Institute of Mental Health Intramural Research Program's Section on Molecular Neuroscience to investigate (1) a novel signal transduction pathway mediating transsynaptic regulation and neuronal differentiation by the neuropeptide PACAP and (2) cell-specific transcriptional regulation and targeting of the cholinergic gene locus in central and peripheral cholinergic neurons. Applicants should have received an M.D. or Ph.D. degree within the past five years. Training in molecular biology and experience with primary neuronal culture are strongly preferred. Contact: **Lee E. Eiden, Ph.D., Section on Molecular Neuroscience, Laboratory of Cellular and Molecular Regulation, NIMH, Building 36, Room 2A-11, 9000 Rockville Pike, Bethesda, MD 20892. Telephone: 301-496-4110; FAX: 301-496-0200; e-mail: eiden@codon.nih.gov.**

POSTDOCTORAL POSITION PROSTATE CANCER RESEARCH

Our interest is to understand the stromal-epithelial interactions that are important for the pathogenesis and metastasis of prostate cancer. We address this question by mechanistic studies of cell proliferation, survival, and motility in primary cell cultures using cellular, biochemical, and molecular approaches. Our laboratory is friendly and interactive. A background in molecular biology and signal transduction is preferred. Please contact: **Beatrice Knudsen, M.D., Ph.D., Department of Pathology, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021. Telephone: 212-746-6402; e-mail: bknudsen@mail.med.cornell.edu.**

POSTDOCTORAL POSITIONS available immediately to study the molecular basis of hereditary colon cancer. Candidate should have a Ph.D. or an M.D./Ph.D. degree with research experiences in molecular biology. Interested applicants should send curriculum vitae and the names of three references to: **Dr. Bo Liu, University of Pittsburgh Cancer Institute, E1047 Biomedical Science Tower (BST), 200 Lothrop Street, Pittsburgh, PA 15213-2582. FAX: 412-624-7737; e-mail: Liub@msx.upmc.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION AVAILABLE IN G PROTEIN SIGNALING

Several projects are in progress studying the molecular mechanisms involved in signaling by heterotrimeric GTP binding proteins. Specific projects are directed at understanding the structural basis for protein-protein interactions, characterization of G protein signaling pathways, and dissecting the roles of G protein pathways in cell biological systems. For more information, see the departmental website: www.urmc.rochester.edu/phph/faculty/smrcka.html; e-mail: Alan.Smrcka@urmc.rochester.edu. Mail: **Dr. Alan Smrcka, Department of Pharmacology and Physiology, University of Rochester School of Medicine, 601 Elmwood Avenue, Rochester, NY 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available for an NIH-funded study of regulated exocytosis by goblet cells in the airways. Recent Doctoral degree with a strong background in molecular biology or protein biochemistry required. Experience in signaling pathways and/or plasma membrane/cytoskeletal domain particularly desirable. Candidates may expect to round out their skills within the context of an intellectually challenging and clinically relevant cell physiology/biology environment. Send curriculum vitae, names of three references, and a brief description of research experience and career goals to: **C. William Davis, Ph.D., Cystic Fibrosis Research Center and Department of Cell and Molecular Physiology, 6009 Thurston-Bowles, University of North Carolina, Chapel Hill, NC 27599-7248. E-mail: cwdavis@med.unc.edu. The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP

A full-time Postdoctoral Training Fellowship is available in the Metabolism Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to focus on signaling by the insulin-like growth factor I receptor. Applicants should have an M.D. or Ph.D. Experience in molecular biology and cell biology is required. Stipend will range from \$31,500 to \$38,460 per annum. Please send curriculum vitae, the names and addresses of three references, and a brief summary of research accomplishments and interests to: **Peter Nissley, M.D., Building 10, Room 4N115, NIH, Bethesda, MD 20892-1374.**

The National Cancer Institute is an Equal Employment Opportunity and Affirmative Action Employer that values and fosters diversity throughout the entire organization.

POSTDOCTORAL POSITIONS ALLERGIC INFLAMMATION Beth Israel Deaconess Medical Center Harvard Medical School

Postdoctoral positions available on an NIH training grant to study diverse aspects of allergic inflammation. Faculty include **Dr. S. Balk, Dr. A. Dvorak, Dr. R. Geha, Dr. C. Gerard, Dr. N. Gerard, Dr. J.-P. Kinet, Dr. A. Nicholson-Weller, and Dr. P. F. Weller.** Please send curriculum vitae and names of three references to: **Peter F. Weller, M.D., Allergy and Inflammation Division, Beth Israel Deaconess Medical Center, DA-617, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-277-6061. BIDMC is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION available in a laboratory studying a recently discovered endogenous inhibitor of the inositol 1,4,5-trisphosphate receptor (**Watras et al., Biochemistry, April 2000**). Previous experience with patch clamping and the measurement of intracellular calcium using fluorescent dyes is highly desirable. Please send letter of interest, curriculum vitae, and the names of three references to: **Dr. James Watras, Department of Physiology, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3505. FAX: 860-679-1269. E-mail: watras@sun.uchc.edu. An Affirmative Action/Equal Opportunity Employer; Minorities/Females/Persons With Disabilities/Veterans.**

CONFERENCES

ESMO also invites all physicians interested in the field of medical oncology to join its membership and receive **important benefits**, such as full subscription to **Annals of Oncology**, a leading specialist journal, at the yearly fee of only 100.— Euros (approx. 105.— US dollars)

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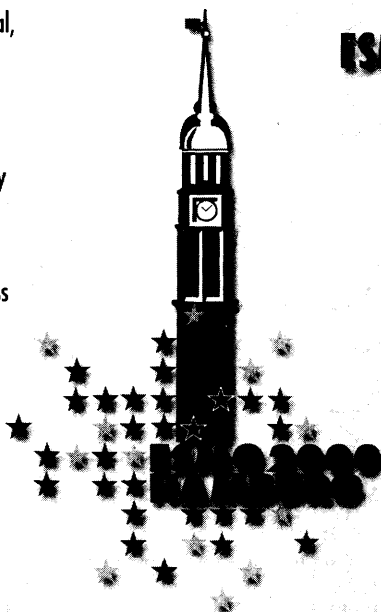
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the voice of Medical Oncology in Europe



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European Congress
in Medical Oncology**

**25th ESMO ANNIVERSARY
and
25th ESMO CONGRESS
HAMBURG, GERMANY
13-17 OCTOBER 2000**

**Abstracts' deadline:
20 April 2000**



CONFERENCES

VIIIth INTERNATIONAL CONGRESS OF THE METASTASIS RESEARCH SOCIETY

24th – 27th September 2000
Imperial College of Science, Technology and Medicine,
Kensington, London, UK

The Paget-Ewing Award Lecture
ISAIAH J FIDLER (USA)

New Discoveries in the Pathogenesis of Metastasis

The Kurt Hellmann Award Lecture
STEPHEN K CARTER (USA)

The Clinical Research Challenge of Metastatic Disease

SYMPOSIA

Genes and Micro-Environment, Cell Signalling, Cytoskeleton and Motility, Multiple Functions of Proteases, Molecular Therapeutics, Angiogenesis: Conundrums & Controversies

ADDITIONAL EVENTS

Bioinformatics Workshop, Members' Oral Proffered Papers (including four "Young Investigator Award" presentations), Poster Sessions, Welcome Reception, Gala Dinner at The Royal College of Surgeons.

Abstract deadline: 28th April 2000
Early Registration deadline: July 3rd 2000

Further details from:

Dr Suzanne Eccles, The McElwain Laboratories, Institute of Cancer Research, Cotswold Road, Sutton Surrey SM2 5NG UK
Tel: + 44 (0)20 8722 4208 Fax: + 44 (0)20 8770 1395.
Web site: www.metastasis.icr.ac.uk

MEETINGS



EUREGENETHY MULTIDISCIPLINARY FORUM ON SAFETY AND REGULATORY ISSUES IN GENE THERAPY

- **Dates:** June 9-10-11, 2000
- **Venue:** Paris-FR, Hotel Méridien Montparnasse-75014.
- **The programme of the meeting will include the following main topics:**
 - Legislation & Guidelines: European Centralised & US
 - Safety & scientific issues relating to gene transfer technology
 - Implementation of Clinical trials.

Representatives of official bodies in charge of regulation (i) in each member state of the EU, (ii) at the European Centralised level, (iii) in the USA, NIH, and FDA, have agreed to participate.

- Scientists are consulted on the regulatory implications of novel technologies.
Abstracts Deadline: April 3rd, 2000.

- **Faculty (tentative):** J-M. Alexandre (CPMP); M. Blaese (USA); J. Boesen (NL); R. Bolhuis (NL); F. Bosch (ES); P. Brunet (EC-DGIII); M. Carrondo (PT); K. Cichutek (DE); O. Cohen-Haguenaue (FR); C. Coutelle (UK); O. Danos (FR); J.L. Darlix (FR); N. Deglon (CH); B. Demeneix (FR); T. Dubensky (USA); Z. Eshhar (IS); A. Fischer (FR); G. Gahrton (SE); B. Gansbacher (DE); P. Greenberg (USA); P. Hokland (DN); J-A Horowitz (USA); C.L. Julou (FR); P. Kind (EC-DGXII); D. Kirm (USA); D. Klinmann (USA); K. Lambert (UK); N. Lenoir (FR); A. Lever (UK); D. Loukopoulos, (GR); M. Marty (FR); F. Mavilio (IT); C. Melani (IT); C. Mickelson (USA); A. Miller (USA); L. Naldini (IT); H.K.A. Nisser (NL); P. Nogushi (USA); J. Ostrove (CA); M. Papamichail (GR); M. Papaluca-Amati (EMEA); G. Parmiani (IT); A. Patterson (USA); M. Perricaudet (FR); E. Rankin (UK); F. Rosenthal (DE); S. Rusconi (CH); J-H Trouvin (FR); L. Tsang (UK); T. Tursz (FR); I. Verma (USA); D. White (UK); C. Wilson (USA); J. Wilson (USA); N. Wivel (USA); S. Yla-Herttuala (FI); H. Zwierzina (AT)

- **Contact:** EUREGENETHY/Dr. Odile COHEN-HAGUENAUER
Fax: (33-1) 42 41 42 56
E-mail: sectgom@chu-stlouis.fr or o.haguenaue@chu-stlouis.fr
Web-site: <http://193.48.40.240/www/euregenethy/euregenethy.html>

POSITIONS OPEN

POSTDOCTORAL POSITIONS GEORGETOWN UNIVERSITY MEDICAL CENTER

A Postdoctoral position is available immediately to study the biochemical and molecular aspects of *ataxia-telangiectasia* and prostate cancer. The projects include biochemical analysis, isolation of novel genes, and clinical translation studies for gene therapy. Recent Ph.D. training in molecular or cellular biochemistry. Prefer experience in these areas and less than five years of postgraduate. Send curriculum vitae and names of three references to: **Mira Jung, Ph.D., Associate Professor, Department of Radiation Medicine, Division of Radiation Research, Georgetown University Medical Center, 3790 Reservoir Road N.W., E211A, The Research Building, Washington, DC 20007-2197. FAX: 202-687-0400.**

Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP position available immediately to join a group of scientists at the Population Council working to develop vaginal and rectal products for the prevention of AIDS and other sexually transmitted infections. Research will focus on developing animal systems to test products for efficacy and safety. The Fellow will be able to choose from a number of topics for her/his research including but not limited to the following: rodent systems to test efficacy of products against any one of a number of STIs, animal systems to study vaginal and rectal safety, pharmacokinetic studies, laboratory aspects of clinical studies of vaginal distribution and rectal irritation, and studies of the mechanism of action of products. Send letter of interest, curriculum vitae, and the names and addresses of three references to: **Dr. David Phillips, Population Council, 1230 York Avenue, New York, NY 10021. Telephone: 212-327-8744; FAX: 212-327-7678; e-mail: dphillips@popcouncil.org.**

POSTDOCTORAL POSITION TISSUE-SPECIFIC CELL SIGNALING Emory University

An NIH-funded Postdoctoral position available to study tissue-specific cell signaling. Angiotensin II is a peptide that acts to raise blood pressure through several different physiological mechanisms (vasoconstriction, aldosterone release, salt reabsorption, etc.). The different responses are triggered in individual tissues after ligand binding to a single receptor. This raises the question of how a single ligand binding to a single receptor can induce tissue-specific responses. This is a wonderful project for someone interested in biochemistry, physiology, or cell biology. Reply to: **Ken Bernstein, Department of Pathology, Emory University, Atlanta, GA 30322. E-mail: kbernst@emory.edu.**

Emory is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in bacterial pathogenesis to study the molecular basis of *Staphylococcus aureus* disease. Studies will involve cloning and characterization of staphylococcal adhesions that are involved in tissue colonization and invasion. Experience in cellular and molecular biology necessary. Send curriculum vitae and the names and addresses of three references to: **Frank Lowy, M.D., Division of Infectious Diseases, Columbia University, Box 82, 630 West 168th Street, New York, NY 10032. E-mail: fl189@columbia.edu. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS to study mechanisms of integrin modulation of signal transduction. A Ph.D. in a biomedical science and substantial experience with molecular biology techniques are essential. Please send curriculum vitae and names of two references to: **Dr. R. L. Juliano, Department of Pharmacology, CB# 7365, University of North Carolina-CH, Chapel Hill, NC 27599-7365. Website: <http://www.med.unc.edu/wrkunits/2depts/pharm/juliano.htm>. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION MEDICAL DIAGNOSTICS/MATERIALS SCIENCE

We seek an individual with a Ph.D. in engineering/materials science, molecular biology, or virology and who has a strong interest in medical diagnostics for a funded project that focuses on the development of novel assays to detect biomolecular interactions. The approach combines the design of nanostructured surfaces with liquid crystal display technology. The position is immediately available and offers a unique interdisciplinary training opportunity with interactions among faculty in the College of Engineering, the School of Veterinary Medicine, and the School of Medicine. A background in both engineering and biomedical sciences would be most desirable.

Please submit curriculum vitae, a letter describing your interests and relevant experiences, and the names of three references to: **Dr. Barbara A. Israel, Department of Pathobiological Sciences, School of Veterinary Medicine, 2015 Linden Drive, University of Wisconsin-Madison, Madison, WI 53706. The University of Wisconsin is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available immediately to study the molecular aspects of leukemogenesis at Yale University. Recent graduates of Ph.D. or M.D. programs with an interest in genetic mechanisms of myeloid leukemogenesis and application of cDNA microarrays to myeloid cellular differentiation are invited to apply.

We are interested in the genetic mechanisms involved in myeloid leukemogenesis and are using proviral tagging in mice to identify new genes involved in leukemia. We are using cDNA microarrays to identify transcriptional changes induced by leukemogenic oncoproteins, specifically focusing on the leukemogenic zinc finger protein Evi-1.

Please send curriculum vitae and names of three references to: **Archibald S. Perkins, M.D., Ph.D., Department of Pathology, Yale University, P.O. Box 208023, New Haven, CT 06520-8023. E-mail: archibald.perkins@yale.edu.**

POSTDOCTORAL AND RESEARCH FELLOWS

The Department of Pediatrics, Rainbow Babies and Children's Hospital, Case Western Reserve University, is soliciting applications from Postdoctoral Fellows within a well-developed research community studying (1) the molecular regulation of pulmonary inflammation, (2) pulmonary development, (3) pulmonary-neural interactions during development, or (4) leukocyte biology. Applicants should have a Ph.D. or M.D. and prior research training. Submit curriculum vitae, statement of research interests, and names of three references to: **Claire M. Doerschuk, M.D., Rainbow Babies and Children's Hospital, Room 787, 11100 Euclid Avenue, Cleveland, OH 44106-6003. E-mail: cmd22@po.cwru.edu.**

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Available immediately for the investigation of molecular mechanisms of stress responses in cardiovascular systems. Studies include gene expression profiling using high-throughput technologies, signal transduction, cell structure/function analysis, and tissue engineering. Experiences in molecular biology, bioengineering, DNA microarray technology, or database management are desirable. *Candidates must be U.S. citizens or permanent residents.* Please send curriculum vitae and three references to: **Dr. Shu Chien, Whitaker Institute of Biomedical Engineering, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0427. FAX: 858-534-5453; e-mail: schien@bioeng.ucsd.edu. Equal Opportunity Employer.**

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As part of a multidisciplinary program, positions are available to examine the conformation and dynamics of damaged DNA and repair proteins. The selected candidate will determine solution structures of lesion-containing DNA duplexes and DNA/protein complexes using NMR spectroscopy and computational methods. Applicants must have a Ph.D. in chemistry, biophysics, or a related field and strong background and practical experience in NMR spectroscopy. Salary will be commensurate with experience. Send curriculum vitae and the names of three references to: **Carlos de los Santos, Department of Pharmacological Sciences, BST8-140, State University of New York at Stony Brook, Stony Brook, NY 11794-8651. FAX: 516-444-3649; e-mail: cds@pharm.sunysb.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Positions available to study the roles of cell adhesion and signal transduction in the regulation of angiogenesis and tumor growth. Studies require experience in molecular biology, protein biochemistry, and cell biology. Send curriculum vitae and three reference letters to: **Dr. Judith A. Varner, Cancer Center, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0684. E-mail: jvarner@ucsd.edu.**

WORKSHOPS

WORKSHOP

"Complementary and Alternative Medicine in Cardiovascular, Lung, and Blood Research": June 12-13, 2000, Bethesda, Maryland; sponsored by National Heart, Lung, and Blood Institute and National Center for Complementary and Alternative Medicine.

Chairs: **Kenneth K. Wu; John C. Longhurst; M. Eric Gershwin.**

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Confirmed speakers are: **Barbara Altman, Vernon Barnes, Z. H. Cho, John Farquhar, Eric Gershwin, Norman Gillis, William Harlan, Lawrence Horwitz, Wayne Jonas, Norman Kaplan, Lixing Lao, Larry Lawson, Peng Li, John Longhurst, Cynthia Mulrow, Ted Rozema, Robert Schneider, Stephen Straus, Varro Tyler.**

Contact for information and registration: **Michael C. Lin; Telephone: 301-435-0560; FAX: 301-480-2849; e-mail: michael_lin@nih.gov and Richard Nahin; Telephone: 301-496-4792; FAX: 301-402-4741; e-mail: nahinr@od.nih.gov.**

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He/she embarks on current research (fetal and adult wound healing, cultured skin substitutes, *in utero* pathophysiology) and develops basic science research programs with clinicians. She/he assumes leadership as director of our laboratory and shows strong commitment towards fund raising. Profile: Ph.D. and/or M.D. with three to five years of postdoctoral experience in molecular and cell biology, possibly tissue engineering, and/or gene transfer. Track record of innovative research with significant publications. Employment starts July 1, 2000, or later at earliest convenience. Tenure at the rank of Director of Research. Salary dependent on experience. Usual benefits. For information, contact: **Martin Meuli, M.D.; e-mail: mmeuli@kispi.unizh.ch. Telephone: ++41 1 266 71 11; FAX: ++41 1 266 71 55.** Send curriculum vitae, publication list, reprints of three papers, and names/addresses of two references to: **Professor U. G. Stauffer, Director, Department of Surgery, University Children's Hospital, Steinwiesstrasse 75, 8032 Zurich, Switzerland. Closing date: April 28, 2000.**

TRAINING

POSTDOCTORAL TRAINING IN THE IMMUNOBIOLOGY OF CANCER

This NIH-sponsored program offers training in a wide variety of cancer-related areas of immunology, including immune recognition, regulation, and tolerance; lymphocyte development; cell signaling and adhesion; and cancer immunotherapy. Our website: <http://www.med.upenn.edu/~micro/training1.html> describes the research interests of the 22 primary trainers in the program.

Positions are open immediately for Ph.D. graduates and for those who expect to graduate in the next six months. Applicants must be American citizens or permanent residents. Interested candidates should send curriculum vitae and names of three references to: Dr. Yvonne Paterson, Program Director, Department of Microbiology, 323 Johnson Pavilion, University of Pennsylvania Medical Center, Philadelphia, PA 19104-6076. FAX: 215-573-4666; e-mail: yvonne@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN MOLECULAR GENETICS OF DIABETES NATIONAL INSTITUTES OF HEALTH

The Clinical Diabetes and Nutrition Section of the National Institute of Diabetes and Digestive and Kidney Diseases, located in Phoenix, Arizona, is seeking a junior- or senior-level POSTDOCTORAL SCIENTIST. The two-year fellowship is available in March 2000. Candidates must have either a Ph.D. or an M.D. with significant experience in molecular genetics and/or physiology. The recipient will work towards identifying novel genes that predispose Pima Indians to Type 2 diabetes. Please send curriculum vitae and statement of research interests to: Leslie Baier, Ph.D., NIDDK, NIH, 4212 North 16th Street, Phoenix, AZ 85016. FAX: 602-200-5225; e-mail: lbaier@phx.niddk.nih.gov.

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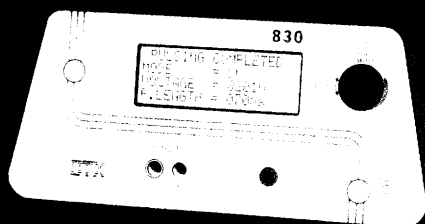
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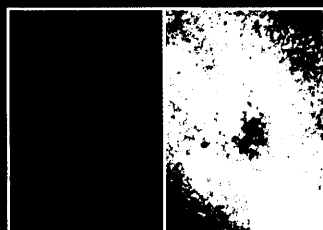
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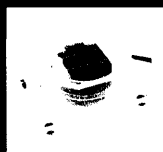
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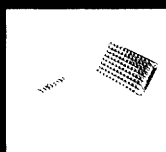
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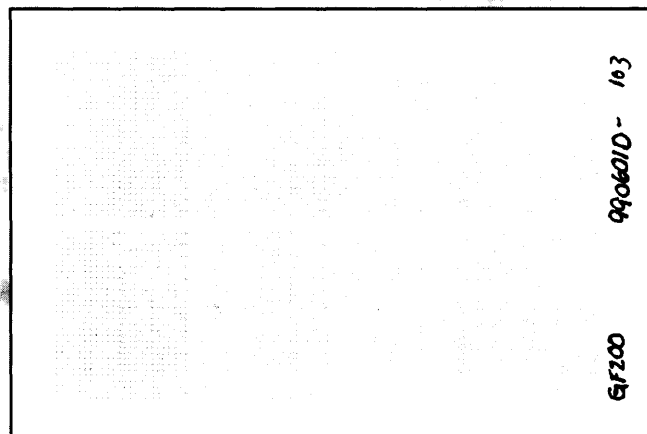
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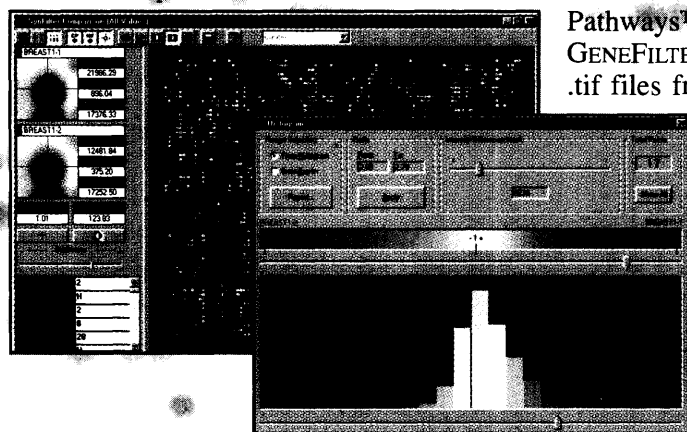
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1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares, M.B. (1996) *Genomics* 33, 151-152.
 2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>
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