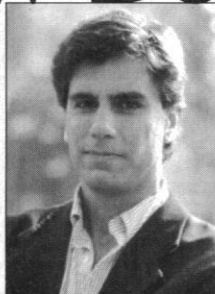


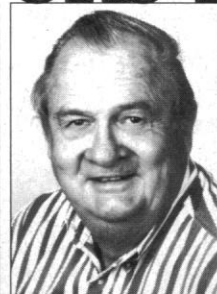
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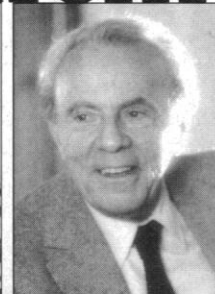
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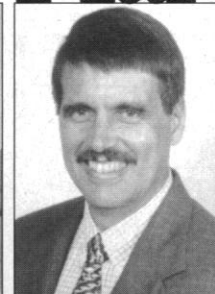
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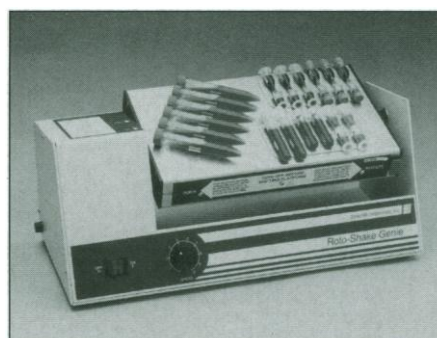
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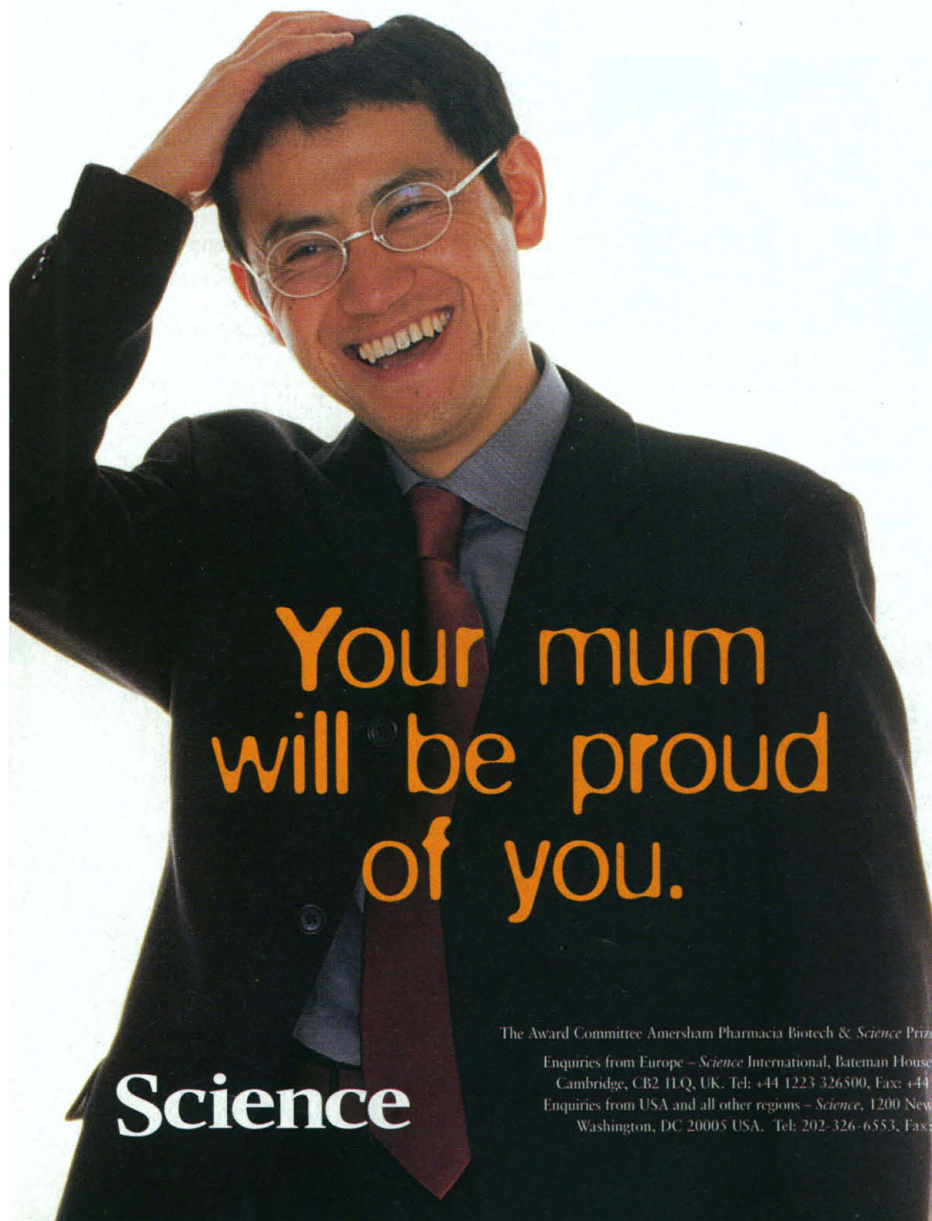
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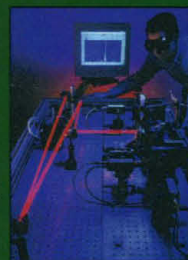
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The people at Axys Pharmaceuticals are putting pieces of that future together every day.

QA Manager

Axys is a leader in the integration of life science technologies with the goal of transforming gene discoveries into drugs. We have a number of promising research collaborations with world-class pharmaceutical companies, covering a broad range of therapeutic disciplines.

As our QA Manager, you will manage the development, implementation and maintenance of the Quality Assurance Systems for our Pharmaceutical Operations. Specifically, you will lead in the execution of all activities necessary to develop, establish and maintain a QA System, ensuring compliance with current pharmaceutical industry standards.

You will be responsible for the initial qualification of contractors and continued communications to ensure compliance. The latter will involve review and negotiation of contractors' master manufacturing and testing documentation; as well as participation in the resolution of internal and contractor technical issues and final Axys release of intermediates and finished drug products. In this position, you will also coordinate inspections of Axys by regulatory agencies and participate in regulatory agency inspections of our contractors.

To be successful in this position, your combined education and experience will be, at minimum, a Bachelor's degree in chemistry, biochemistry, or pharmacy combined with five years in a biotech/pharmaceutical QA/QC management role. Knowledge of cGMP and GLP regulations is essential; familiarity with GCP regulations will be useful. Ideally, you are someone who can define complex issues and processes, collect and organize relevant data, establish facts and draw valid conclusions while working with data management/computerized systems. Developing and maintaining a professional working relationship with the contractors is critical to ensure the success of our work and of the Axys QA function.

We offer an extremely competitive salary, full benefits, and career advancement within a progressive, growing company. Please forward your resume/cv to: Axys Pharmaceuticals, HR Department, (Attn: Job# N99-013-SCI), 180 Kimball Way, South San Francisco, CA 94080; email: human_resources@axyspharm.com.

We look forward to hearing from you. EOE



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Molecular Oncology

Two research openings at levels commensurate with academic experience (Assistant Professor to Professor) in the Department of Pathology, Emory University School of Medicine. Candidates should have a background in basic science as it relates to cancer. There are no preferred sub-areas but approaches utilizing molecular cell biology and/or genetics preferred. Applicants should possess M.D., Ph.D. or M.D./Ph.D. degrees and some experience with or training in pathology is preferred but not required. Candidates are expected to have (or be able to develop, if just leaving post-doc) a strong NIH/NSF funded research program — thus candidates should qualify for funding from these sources. Individuals should be interactive with a record indicating productivity. The Department is research intensive and provides an atmosphere of scholarship and collegiality at a Medical School with outstanding resources and facilities (including research cores), graduate students, interactive programs and Departments, and location. Applicants should submit a curriculum vitae and statement describing current and future planned research and arrange to have three letters of recommendation sent to: **Dr. James L. Madara, W.P. Timmie Professor and Chair, Department of Pathology, Emory University School of Medicine, 1364 Clifton Road N.E., Room H184, Atlanta, GA 30322.**

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your
career**

At **Regeneron Pharmaceuticals, Inc.**, come explore the opportunities for personal and professional growth while discovering the recognition and rewards of individual achievement. We are currently seeking a dynamic individual to fill the following position.

Product Development Leader

A highly visible position reporting to the CEO with the responsibility for developing a novel cytokine trap into a therapeutic product. This would involve the formulation and execution of a development strategy in concert with a team composed of experts in the various disciplines required to obtain product licensure. This team will include representatives from discovery research, toxicology, pharmacology, pharmacokinetics, regulatory/QA, manufacturing, formulation, clinical research and marketing. The successful candidate will accomplish this goal by obtaining team and senior management consensus on the product development plan and subsequently directing the team's effort to execute the plan. The Product Development Leader will have ultimate responsibility for the product through the drug approval process.

This position requires a Ph.D. or MD with a background in immunology or cytokine biology. The position also requires five or more years experience in one of the specific areas required for drug licensure, as described above, and a demonstrated ability to lead a group of professionals in a consensus-driven team environment. Strong interpersonal and communication skills are a necessity. **Respond to Job Code: PDL 1**

We offer a comprehensive benefits package including relocation, medical, dental, vision and Rx, stock options, 401(k) plan with company match, long term disability, life insurance, and paid holidays, vacation and personal days. Please send cover letter, resume and salary requirements to:

REGENERON Pharmaceuticals, Inc.

Human Resources-(specify Job Code)

777 Old Saw Mill River Road, Tarrytown, NY 10591

Fax (914) 345-7790 • E-mail: jobs3@regpha.com

Website: www.regeneron.com

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Living Skin Bank Research Associate

Required Qualifications: Ph.D with a minimum of two years experience in either protein and lipid biochemistry or in cell and molecular biology. Experience with tissue culture.

Preferred Qualifications: Experience in metabolic studies of retinoids and other lipid mediators, with epithelial cell biology and biochemistry, and with HPLC and protein purification.

Please send resumes to: Stony Brook University Hospital Human Resources, Three Technology Drive, UH# 7423 Suite 100, East Setauket, New York 11794-4073

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At Monsanto, we share a common goal-to help people lead longer, healthier lives. We are pioneering the use of life-science technologies to understand how the connections between human health, nutrition and agriculture can be used to develop products to improve the quality of life for everyone, everywhere. To achieve this goal, we are selectively hiring the best and the brightest people in the world-people who can make a difference and want to leave their mark. Imagine the possibilities-a better world, healthier families, a more enjoyable life. We are a team with a dream, and we would like you to be a part of it.

AGRICULTURAL SECTOR - GENOMICS

Monsanto's ability to move from gene to seed in an integrated environment ensures that scientists working at the cutting edge of genomics discoveries will realize the benefits of their contributions in the form of innovative new products in a global marketplace. We are seeking individuals that are committed to the application of genomics for abundant food and a healthy environment.

Genomics Team Leaders (2 openings)

Ag Genomics is seeking individuals to lead cutting edge genomics technology teams that are utilizing DNA microarray technology, and novel gene discovery methodologies in crop species and other targeted organisms. The team leaders will interface with gene discovery teams across the Monsanto Genomics Network. The team leaders will influence the overall vision for genomics technologies by facilitating the identification of pipeline leads for crop biotechnology traits. The successful candidates must be highly innovative, willing to lead by example and possess excellent interpersonal and communication skills. The individuals should be critical thinkers with demonstrated skills in planning, troubleshooting and interested in interacting with scientists across broad disciplines. The individuals should have a Ph.D. with 2+ years demonstrated successful project or team leadership experience. **Job Code: GTL01.**

Genome Molecular Biologist and Senior Genome Biologist (3 openings)

A number of new technologies and genomics capabilities have provided new insights to gene discovery and regulation. The utilization of high-throughput gene expression monitoring technologies and in silico sequence based electronic subtraction methods provides numerous tools to approach complex genome regulation questions. Regulation of gene expression is a central part of plant biotechnology and transgene manipulation. Understanding regulons (genes that are co-regulated) is also vital to understanding the function of genes and the basis of complex traits. We are looking for outstanding molecular biologists that have experience in gene expression that leads to understanding of genome regulation. Candidates must be innovative with the use of bio-informatics tools, must be strong at interpretation of experimental results and possess strong organizational skills. Candidates are required to have excellent communication skills and be able to work in a multidisciplinary team environment. Several positions are available requiring a range of experience. Minimum qualifications are a MS degree +2 years experience in a molecular biology discipline. Senior level positions are available and require a Ph.D. with 2+ years postdoctoral experience in molecular biology or molecular genetics. Training in molecular biology of plants is desirable. Preference will be given to individuals with demonstrated research interest and previous experience in plant gene expression. **Job Code: GM01.**

For consideration, for the above positions, please send resume to: Monsanto Life Sciences, Job Code (insert code from above), Mail Code: 02G, 800 N. Lindbergh Blvd., St. Louis, MO 63167. Fax: 314/694-2303.

MONSANTO CORPORATE RESEARCH

Team Leader, Gene Chemistry

The Team Leader will be expected to evaluate the emerging field of gene regulation via small molecules. The analysis will involve both a scientific evaluation as well as an assessment of best fit areas within Monsanto. The Team Leader will then be expected to establish an internal research effort with appropriate hiring, make decisions on external funding of academic research groups, and maintain contact with the several different approaches and programs underway. We are seeking a scientific leader with a Ph.D. having at least 3 years experience in chemistry studies at the gene level. **Job Code: 3881.**

Bio-organic Chemist

As a Bio-organic Chemist, you will contribute to a multidisciplinary team in exploratory research programs that interface with one or more of our life science businesses (Pharmaceutical, Agricultural, Nutrition). Success in this position requires creativity, experience in organic synthesis, a fundamental understanding of biochemical principles, exposure to molecular biology, and the enthusiasm to engage in the disciplines of a newly formed Life Sciences Company. The successful candidate should be a Ph.D. in Bio-organic Chemistry. Postdoctoral experience in a complimentary discipline is highly desirable. **Job Code: 3882.**

ANALYTICAL SCIENCES CENTER

Biological NMR Spectroscopist

Monsanto has an immediate opening for an NMR Spectroscopist in the Analytical Sciences Center of its Corporate Research group in St. Louis. This position represents a full-time, career opportunity in an open access NMR laboratory with more than a dozen modern NMR spectrometers serving a broad range of research and development needs of a life sciences company. The person filling this position will focus on problem solving using state-of-the-art biological NMR & MRI methods in collaborative pharmaceutical, agricultural and nutritional science projects. Additional responsibilities will include infrastructure & user support and the development of the laboratory facilities and its instrumentation.

The successful candidate should have a Ph.D. in biology, physiology or biochemistry, possess good computer skills, and have a basic understanding of spectroscopy and instrumentation. Experience in the application of NMR spectroscopy to biological problems and the operation of super-conducting NMR spectrometers is essential. A strong physiology background with some exposure to *in vitro/in vivo* NMR or MRI methods is desirable. The candidate also must be able to work well in a team environment, have good verbal and written communication skills, and possess clear potential for rapid growth and learning. **Job Code: 3814.**

Scientific & IT Applications Specialist

Monsanto has an immediate opening for a Scientific & Information Technologies Applications Specialist in the Analytical Sciences Center of its Corporate Research group in St. Louis. This position represents a full-time, career opportunity in an exciting, dynamic environment serving a broad range of research and development needs of a life sciences company. The person filling this position must be able to work well in a team environment, have good verbal and written communication skills, and possess clear potential for rapid growth and learning. We require a BS/MS/Ph.D. or equivalent experience in Physical Sciences with a strong computer programming and software maintenance background. UNIX programming experience in C and scripting languages, such as PERL and Tel/Tk, are considered essential. NMR applications experience is strongly desired. Experience with NT platform, laboratory automation and/or Laboratory Information Management System (LIMS) would be helpful. **Job Code: 3813.**

LIFE SCIENCE INFORMATICS

We're putting together a team of top professionals who can work together to help us achieve our goals. You'll have a chance to make your mark and work with all aspects of our business relating to bio-informatics. This includes everything from pharmaceuticals to agriculture to genomics. It's silicon valley technology, right here in the Midwest. As you'd expect, our environment is cutting-edge and entrepreneurial. We can offer you the feel of a start-up and the resources of a global company.

Bio-informatics Scientist

The Bio-informatics team supports the development and implementation of high-speed, high-throughput information and biology technologies which comprise Monsanto's rapidly growing Genomics initiative. The candidate will become a member of the Bio-informatics/Applied Bio-informatics Team and will be expected to use knowledge of biology and computational skills to extract meaningful data from genomics information to identify leads and targets with biological significance for Monsanto's agricultural and pharmaceutical programs.

We require a Ph.D. in molecular biology, genetics or equivalent education and experience in a biological or hard science. At least 2 years experience in bio-informatics with a strong biology and computer background, especially in generating useful information from massive output of data generated by sequencing, genetic fingerprinting, mapping positional cloning, and/or transcriptional profiling efforts is essential. The candidate should have an in-depth knowledge of bio-informatics such as Smalltalk, C++, or PERL. Experience in a commercial environment and a record of publishing is a plus. **Job Code: 99-315.**

For consideration, for the above positions, please send resume to: Monsanto Life Sciences, Job Code (insert code from above), Mail Code: E2NB, 800 N. Lindbergh Blvd., St. Louis, MO 63167. Fax: 314/694-2014.

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**Department of Clinical Studies-Philadelphia
School of Veterinary Medicine
University of Pennsylvania
Pamela Cole Career Development Chair
Companion Animal Oncology**

The University of Pennsylvania School of Veterinary Medicine is pleased to announce the creation of the Pamela Cole Career Development Chair in Companion Animal Medicine. The School invites applications for this tenure-track faculty position with specific emphasis in developing a career as a prominent clinician-scientist in oncology. The Pamela Cole Chair was conceived to provide research and salary support to a junior faculty member for a period of six years, or until tenure status is achieved. The individual chosen will be a key member of the Mari Lowe Center for Comparative Oncology and, as a team member, will act as a vital link between basic research and clinical oncology. The Recipient will have the opportunity to interact and collaborate with basic scientists and clinical oncologists in the School of Veterinary medicine as well as in the Cancer Center within the School of medicine. In addition, there are abundant opportunities to interact with faculty at the Wistar Institute, the Institute for Human Gene Therapy and the Fox Chase Cancer Center. The recipient of the Pamela Cole Chair will be expected to develop an independent research program in an oncology-related area and will participate in the teaching of both veterinary and graduate students.

Candidates must have a veterinary degree and post-doctoral residency training. Preference will be given to applicants who are Diplomates of the American College of Veterinary Internal Medicine (Specialty of Oncology), or who are eligible for board certification in the ACVIM (Oncology). Salary and rank will be dependent upon the candidate's qualifications. Time out of clinic will be scheduled to permit study for board certification, research and other scholarly activities, depending upon the needs and interests of the candidate.

Interested applicants should direct questions or submit a letter of intent along with curriculum vitae and the names, addresses, phone, fax and e-mail information for three references to:

**Dr. Gail K. Smith, Chairman
Department of Clinical Studies-Philadelphia
University of Pennsylvania
School of Veterinary Medicine
3900 Delancey Street
Philadelphia, PA 19104-6010**

(Telephone) 215-898-6678, (Fax) 215-573-8183, (E-mail) smithgk@vet.upenn.edu
The search committee will accept applications until June 15, 1999. The starting date is negotiable.
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**Research Scientist/Senior
Research Associate:**

An immediate opportunity exists for a qualified professional to join a multidisciplinary drug discovery team to develop/validate/execute novel high throughput assays. Responsibilities include assay development, assay automation, high throughput screening and data management. Experience with Oracle and/or MS Access databases desirable. Strong communication skills and evidence of effective team interaction are required. Qualified candidates will have earned a BS/MS/PhD and have 1-3 years of relevant experience.

Cubist Pharmaceuticals is a biopharmaceutical company focused on the research, development and commercialization of novel antimicrobial drugs to combat emerging strains of drug-resistant bacteria and fungi. At Cubist, we offer competitive compensation, outstanding growth opportunities and a comprehensive benefits package including group insurance, 401K and tuition reimbursement. Qualified candidates, please send your resume to:

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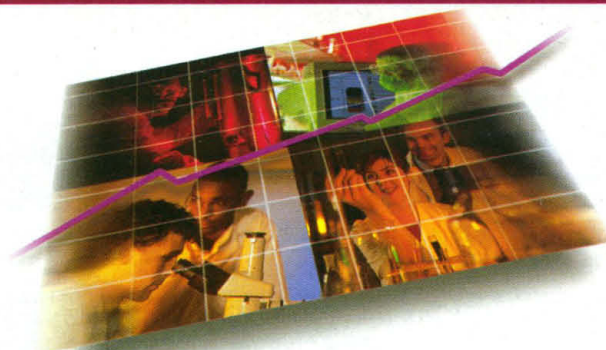
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PATHOLOGY AND EXPERIMENTAL TOXICOLOGY

Pathology and Experimental Toxicology provides scientists the opportunity to belong to teams applying the most sophisticated and emerging technologies in the drug discovery and development process. Our scientists are recognized as leaders in their disciplines and are rewarded for individual and team contributions. To become a member of one of the most dynamic and leading toxicology groups in the biomedical research industry, see how the combination of your education, experience, and interests would contribute to one of the following positions:

CLINICAL AND MOLECULAR PATHOLOGY Senior Scientist/Biochemistry

Job Code: CJM-99179

Pathology and Experimental Toxicology has an immediate opening for an individual with expertise in biochemistry, glucose metabolism, and enzymology. This person will develop and validate assays to support pre-clinical safety and investigative studies, as well as Phase I clinical trials. Emphasis will be on characterizing toxicologic mechanisms and identifying surrogate markers of toxicity. The person selected will maintain an active basic research program, with publications in peer-reviewed journals, and act as a GLP study director. Applicants should have a PhD in Biochemistry, Molecular Biology, Toxicology, or a related field, with 3-10 years of relevant postdoctoral research training.

Senior Scientist/Clinical Pathology

Job Code: CJM-99178

To meet growing demands and expand current testing capabilities, an individual is needed to provide clinical pathology expertise and develop new techniques for identifying toxicities in animal and human studies. Qualified candidates will combine an active research program with GLP-regulated study directing to contribute to Pathology and Experimental Toxicology goals. Applicants should have a PhD in Clinical Pathology, Biochemistry, Experimental Biology, Molecular Biology, Toxicology, or related field. A proven publication record and 3-5 years of relevant research experience are also required.

Senior Scientist **Job Code: CJM/MRB**

This is an immediate opening for a highly-motivated individual with nuclear magnetic resonance experience. This person will be responsible for developing, implementing, and overseeing NMR applications in toxicology studies and clinical trials. A strong, scientifically-based, research program using NMR is expected, as well as application of this technology to mechanistic studies and the drug development process. Applicants should have a PhD in Physics, Pharmacology, Toxicology, Bioinformatics, Biochemistry, or related field, with 3-5 years of relevant research experience.

GENETIC TOXICOLOGY

Senior Scientist/Study Director

Job Code: CJM-99209

This individual will design and conduct GLP regulated toxicology/safety assessment research projects in support of drug discovery and development initiatives. With expertise in genetic toxicology, the individual will evaluate in-house and contracted genetic toxicology research, monitor these studies and assist in in-house research programs. Applicants should have a PhD in Genetic Toxicology or a related field, 3-5 years of experience and broad familiarity with *in vitro* and *in vivo* genetic toxicology testing paradigms.

SAFETY PHARMACOLOGY

Senior Scientist/Study Director

Job Code: CJM/MRB

This individual will design and conduct GLP regulated safety pharmacology research in CNS, cardiovascular and pulmonary systems. The applicant should be proficient in utilization of pharmacology/physiology models, advanced radiotelemetry and computerized data acquisition and reporting systems. A program of research toward refinement of existing technologies and development of new capabilities is expected. Applicants should have a PhD in Pharmacology or Toxicology and 3-5 years of experience with expertise in intact animal research.

SAFETY ASSESSMENT

Senior Scientist/Study Director

Job Code: CJM/MRB

This individual will integrate key findings of toxicology studies and relevant data from other pre-clinical disciplines and published literature to provide a comprehensive assessment of safety relative to intended clinical evaluation and therapeutic use of drug candidates. This individual will also prepare responses to regulatory agency requests, and participate in the departmental scientific matrix as a Study Director. Applicants should have a PhD in Toxicology or related discipline, DABT certification, and 3-5 years of relevant experience preparing IND/NDA/MAA documents.

EXPERIMENTAL TOXICOLOGY

Postdoctoral Fellow

Job Code: CJM/MRB

This individual will investigate biochemical, cellular, and physiological mechanisms underlying drug-induced vasculopathy using a combination of *in vivo/in situ* models and *in vitro* organ bath/cell culture techniques. Experience in inflammation research, intact animal models and physiological techniques is highly desirable. Applicants should have a PhD in Pharmacology, Toxicology, or related field, and 0-2 years of postgraduate experience.

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CELL AND MOLECULAR BIOLOGIST B.S./M.S.

The incumbent will work on identifying and characterizing novel therapeutical targets for neurodegenerative disease such as Alzheimer's Disease. This position requires an M.S. or B.S. degree in Cell and Molecular Biology. Ideally, the candidate should have at least two years of research training. Experience in characterization and functional study of novel genes is highly valued.



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Position #990084
Staffing, 5003-24-0
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Kalamazoo, MI 49001
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Or you may e-mail your resume (no attachments, please) to: recruit@am.pnu.com. We are an equal opportunity employer with a commitment to workplace diversity.

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We seek a proven professional with a BS or MS, 1-3 years' relevant experience, and demonstrated expertise with immunological assays, including CTL, ELISA, and proliferation assays. Prior *in vivo* modeling experience is a plus. In addition, candidates should have strong written/verbal communication skills and be able to work in a fast-paced, interdisciplinary team environment.

VALENTIS, Inc., offers highly competitive compensation and benefits and the opportunity for career growth. For confidential consideration, please submit resume (email preferred) to:



VALENTIS, Inc.

VALENTIS, Inc.
Human Resources
Attn: Job# SCI0416-S
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The Woodlands, TX 77381-4248
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The ideal applicant will possess a PhD in Molecular Biology, Biochemistry or Pharmacology with 3-5 years' postdoctoral experience. Excellent communication, publication and computer skills, as well as the ability to work in a team environment, are essential. Successful candidates will discover new chemical entities which have an impact on kinases, phosphatases and proteases controlling growth and differentiation of cells. Job Code: 3159

Postdoctoral Scientist

The Growth Factors team currently has a postdoctoral assignment, offering opportunities for publication in the area of hematology, oncology or diabetes. All assignments are 2 years and are renewable dependent upon performance. As a member of the team, you will contribute to the current drug discovery research programs and will assist in identifying new potential targets for assay development and screening. Job Code: 3160

Postdoctoral Scientist

Applications are invited for a postdoctoral position at the Johnson & Johnson Skin Biology Research Center located in Skillman in central New Jersey. The applicant must have a Ph.D. in any discipline of the Biological Sciences with a strong interest in molecular genetics and excellent skills in all standard molecular biology techniques and computers. The selected candidate will work on an on-going positional cloning project, which involves use of a variety of techniques for gene identification and expression. Expertise in one or more of these areas of research is highly desirable: genetic linkage mapping, physical mapping techniques (contig construction using YAC and BAC vectors, radiation hybrid mapping), DNA libraries screening, differential gene identification, in-situ RNA hybridization, PCR, mutational and DNA sequence analysis. The candidate is expected to have good communication and interpersonal skills. Attending scientific meetings and publications in scientific journals is highly encouraged. The position is initially for two years with renewal for additional years depending on performance. Our facility is well equipped for research in molecular and cell biology with the latest automated genotyping and sequencing technology. The company provides excellent salary and benefits. We are located less than 10 miles north of Princeton. Please send curriculum vitae and the names of three references with phone/e-mail/postal address. **DO NOT APPLY ON-LINE FOR THIS POSITION.** Job Code: 3161

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The Edwin L. Steele Laboratory (MGH/HMS) is committed to improving the detection and treatment of cancer through a better understanding of tumor pathophysiology, and the molecular and cellular transport barriers within tumors. We are actively recruiting for faculty and post-doctoral fellows to work in the areas of *angiogenesis, transvascular transport, metabolic microenvironment, interstitial transport, or cell transport*.

Individuals must possess a Ph.D. and/or M.D., appropriate research experience, strong organizational, interpersonal, communication, and computer skills and be prepared to work in a dynamic team environment. Applicants should send a C.V. indicating their area of expertise, a career statement and three reference letters to: **Rakesh K. Jain, Director of Steele Laboratory for Tumor Biology, Dept. of Radiation Oncology, Massachusetts General Hospital, 100 Blossom St., Cox-7, Boston, MA 02114**



For more information about the research activities of the Steele Laboratory, please visit our web site at:
<http://steele.mgh.harvard.edu>

The MGH is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

MIT

RESEARCH ASSOCIATE

The Department of Chemical Engineering seeks an individual to work on the development of a bioartificial pancreas comprised of alginate-encapsulated insulin-secreting tissue in a planar immunobARRIER chamber with in situ oxygen generation. Research is collaborative under the JDFI Center for Islet Transplantation at Harvard Medical School.

Requirements: a Ph.D. in chemical engineering, strong publication record, and substantial background in tissue engineering. Three or more years' experience required in as many as possible of the following areas: aseptic technique, monolayer and 3D cell culture with insulin-secreting tissue, effect of hypoxia and hyperoxia on viability and glucose-stimulated insulin secretion, cell encapsulation in alginate and/or in planar diffusion chambers, and NMR spectroscopy for assessing metabolism and energetic state of cells in bioreactors.

Interested candidates should submit a resume and cover letter referencing Job No. 99-0248R to: **James McCarthy, MIT Personnel, PO Box 391229, Cambridge, MA 02139-0013.**
To apply on-line: web.mit.edu/personnel/www/resume.htm



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FACULTY POSITIONS (RANK OPEN)

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign invites applications for regular, full time tenure-track or tenured faculty positions in the broad areas of materials research. Applicants with strong research and teaching capabilities in the areas of diffraction and/or imaging techniques utilizing x-rays, electrons or neutrons; ceramic engineering; metallurgy; or polymers will be given preference although applicants with research interests in other areas may be considered. To be considered for a tenured position, the applicant must have recognized national and international stature. Successful candidates will be expected to teach Materials Science and Engineering courses at both the undergraduate and graduate levels. Candidates will also be expected to develop an outstanding research program.

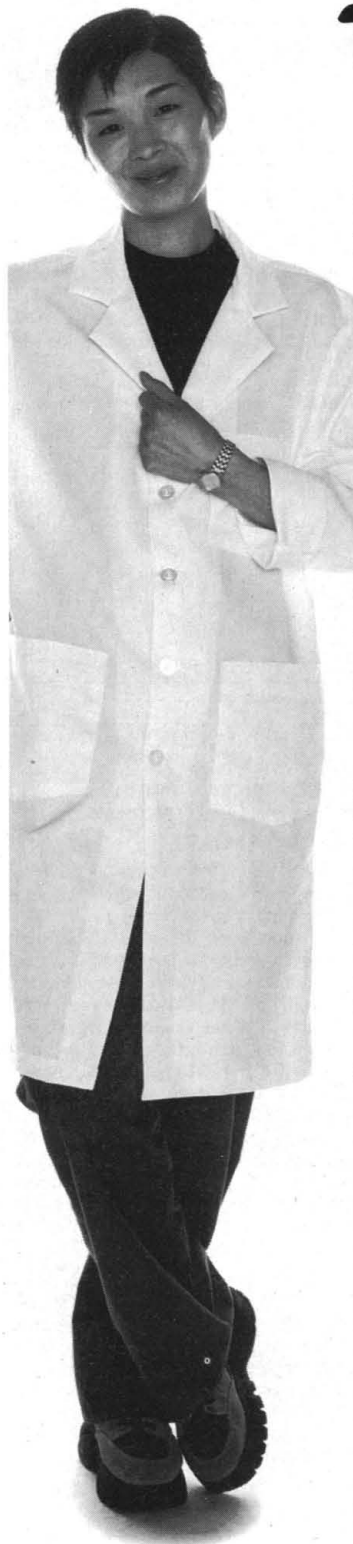
Applicants must hold an earned Doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is August 21, 1999 or later. All applicants are asked to provide a professional curriculum vitae including teaching experience and interests, a list of publications, and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three (3) letters of reference be sent directly to the department. Candidates for tenured positions should include the names, addresses, e-mail and telephone numbers of at least three (3) references. To ensure full consideration, applications must be received prior to June 30, 1999. Interviews may take place during the application period, but a final decision will not be made until after the deadline for applications.

Applications should be addressed to:

Chair, Faculty Search Committee
Department of Materials Science and Engineering
1304 W. Green St.
Urbana, IL 61801
Telephone: (217) 333-1440
Fax: (217) 333-2736
Email: mse@uiuc.edu

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Amersham Pharmacia Biotech is launching a new global postdoctoral programme

Amersham Pharmacia Biotech has always been at the forefront of bringing innovation to the life sciences. Now, through our new postdoctoral research programme, you have the opportunity to contribute directly to the development of technologies that will be of key strategic importance in the future. We can offer a challenging industrial environment together with active academic collaborations, that will enable you to translate your ideas into reality. Scientific publications will be encouraged. These projects will be for 1 year in the first instance, with a possible extension for a further year.

Projects in UK:

Novel bioluminescent probes

Cardiff/Sussex

Development of novel bioluminescent probes from semi-synthetic luciferases in collaboration with a University department. You should have gained a PhD in synthetic organic chemistry, ideally with experience in heterocyclic and combinatorial chemistry.

Contact: Dr J.M. Kendall +44(0)1222 526054
e-mail: bob.kendall@eu.apbiotech.com

Long Wavelength Lanthanide Ion Probes

Surrey/Cardiff

Exploiting the ability to modulate emission lifetimes of lanthanide ions for the use as signalling agents in a joint venture with the Molecular Probes Group (Dr. S. Faulkner and Prof. P. Sammes) at the University of Surrey, UK. Synthetic organic chemistry skills will be essential with experience in the relevant fields of metal chelating agents, lanthanides and fluorescence spectroscopy highly desirable.

Contact: Mark Briggs +44(0)1222 526040, e-mail: mark.briggs@eu.apbiotech.com or Prof. Peter Sammes +44(0)1483 876848, e-mail: p.sammes@surrey.ac.uk
Dept. of Chemistry, University of Surrey, Guildford GU2 5XH

Send your application to: simon.voake@eu.apbiotech.com or Amersham Pharmacia Biotech, Cardiff Labs, Forest Farm Estate, Whitechurch, Cardiff CF4 7YT, UK

Projects in Sweden:

Multi-point affinity binding

Uppsala

Exploitation of multi-point attachment, create larger interaction between ligands and target molecules. You are a PhD in synthetic organic chemistry and experience in combinatorial chemistry, solid phase synthesis and affinity binding.

Contacts: Jean-Luc Maloisel +46(0)18 165683
e-mail: jean-luc.maloisel@eu.apbiotech.com

Living radical polymerisation

Uppsala

Construction of novel separation matrices. You are a PhD in synthetic polymer or in synthetic organic chemistry or in organic solid phase synthesis. Experience in living radical/suspension/emulsion polymerisation is required.

Contact: Jan Näsman +46(0)18 165491
e-mail: jan.nasman@eu.apbiotech.com

Send your application to: nina.holm@eu.apbiotech.com or Amersham Pharmacia Biotech, 751 84 Uppsala, Sweden

Projects in USA:

High-speed high-throughput DNA analysis on microfabricated electrophoresis chips

Sunnyvale

You are a PhD in molecular biology, biochemistry or analytical chemistry with experience in DNA analysis and strong background in analytical instrumentation.

Contact: Shaorong Liu +1 800-800-4383 x 4835
e-mail: sliu@mdyn.com

Send your application to: Professional Staffing Molecular Dynamics, 928 E. Arques Ave, Sunnyvale, CA 94086, fax: 408/773-8343

APEX-arrayed primer extension

Piscataway

Addressing the requirements of re-sequencing, particularly in the area of genotyping. Development of enhanced methods and enzymes. You are a PhD in biochemistry or molecular biology with experience in biochemistry, particularly of polymerases, molecular biology, fluorescent sequencing or dye chemistry.

Contact: Dr. Shauna Brummett +1 216 765 5000 (ext 158), e-mail: shauna.brummett@am.apbiotech.com or Maria Davis +1 216 765 5000 (ext.117)
e-mail: maria.davis@am.apbiotech.com

Send your application to: julie.guilford@am.apbiotech.com

Closing date for applications is May 14.



amersham pharmacia biotech

Gene Expression Technologies Research Associate

Genome Sequence Centre, BC Cancer Research Centre

Vancouver, British Columbia, Canada

The newly-established Genome Sequence Centre has as its Director, Dr Michael Smith with Dr Marco Marra as its Associate Director and Leader of the Genome Mapping & Sequencing Group, as well as Steven Jones as Leader of the Data Analysis & Informatics Group.

Interacting closely with researchers and clinicians at the BC Cancer Research Centre and the BC Cancer Agency, the Genome Sequence Centre has a mandate to deploy the resources and technology of a high-throughput genome mapping and DNA sequencing facility to advance cancer research, diagnosis and treatment, as well as to apply genome-wide analysis to other significant medical and biological problems.

This key appointment requires an individual with extensive experience in RNA isolation and characterization as well as cDNA library construction. Experience with other gene expression technologies including serial analysis of gene expression (SAGE) and DNA micro-array analysis would be advantageous.

A self-motivated individual, you have highly-developed communication and interpersonal capabilities combined with the ability to work effectively in a group environment. Supervisory skills would be an asset. You ideally have a Ph.D degree in biochemistry, microbiology or genetics together with post-doctoral experience; however, very extensive laboratory experience in place of formal qualifications will be considered.

The salary and benefits package is competitive.

In accordance with Canadian Immigration policy, priority will be given to Canadian citizens and permanent residents although all qualified persons are encouraged to apply. Please forward a curriculum vitae, quoting reference #BCSCI, by April 30, 1999 to: Human Resources, BC Cancer Agency, 400 - 555 West 12th Avenue, East Tower, City Square, Vancouver, BC V5Z 3X7, Canada; fax 604.877.6037.



BC Cancer
Research Centre

M14627

SCIENTIST Functional Genomics

Atugen, an industry leader in providing reagents and services to determine gene function and validate therapeutic gene targets, is currently seeking a scientist to join our team in Boulder, Colorado.

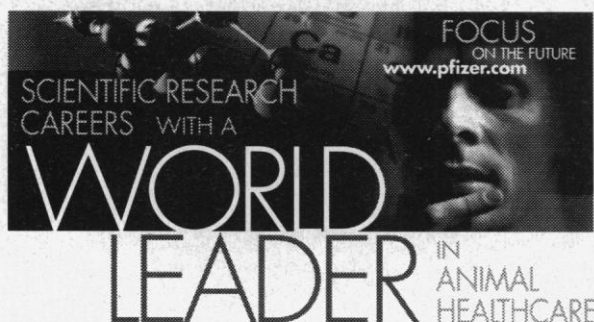
Highly motivated individual will lead a team of cell biologists in developing cell culture assays to examine gene function. The team will be responsible for internal technology development and support of external collaborations. Qualified individual will have a Ph.D. and at least 3 years of related experience, including supervisory experience. Must possess excellent communication skills and the ability to interact with an interdisciplinary team. A background in cellular and molecular biology is required. Experience in cell assay automation is a plus. Please refer to Job #031.

We offer a competitive salary and benefits package, including a stock option plan. For consideration, please send a curriculum vitae and the names of three references to: Atugen/RPI, 2950 Wilderness Pl., Boulder, CO 80301; fax: (303) 449-6995; e-mail: jobs@rpi.com

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Pfizer scientists are involved in some of the most critical research in the world today. Recently voted Company of the Year by Forbes Magazine, we have established a product pipeline that is unparalleled and an intellectual, collaborative environment that inspires scientific achievement. Pfizer Inc's Animal Health Department is currently seeking candidates for the following position.

SCIENTIST/RESEARCH SCIENTIST - BIOLOGICALS

In this position, you will purify and characterize proteins to support discovery projects in veterinarian biologicals as well as develop and employ methods for analytical characterization of natural and recombinant proteins to support novel antigen identification and vaccine development. The successful candidate will have a minimum of a MS or equivalent in Biochemistry and 6+ years' experience, or a recent Ph.D. in Protein Biochemistry. Experience in protein purification and characterization, including protein chemistry analytical techniques, and experience with BioCad, Akta, Millennium and Biorac systems for purification and characterization as well as SDS-PAGE, Westerns, HPLC, LC, UV, IEF, fluorescence spectroscopy and circular dichroism are desired. Some knowledge of protein stability studies and vaccine formulation is also desirable.

Pfizer offers exceptional salaries and benefits, as well as tremendous growth potential. Please send your resume in confidence to: Pfizer Inc., Job Code #9923370SCI, Central Research, c/o Aon Consulting, P.O. Box 25, Findlay, OH 45839. As an Equal Opportunity Employer, Pfizer is focused on building a diverse workforce.



LIFE IS OUR LIFE'S WORK.

TENURE-TRACK FACULTY POSITION ASSISTANT PROFESSOR Crump Institute for Biological Imaging Department of Molecular and Medical Pharmacology UCLA School of Medicine

The Crump Institute for Biological Imaging (www.crump.ucla.edu) is seeking a faculty member with research experience in the development of murine models of disease, and with a strong interest in biological imaging. The individual we seek would have the ability to interact with diverse scientists who have come together to advance biological imaging through the merger of fundamental advances in molecular biology, cell biology, and manipulation of the murine genome with those in biological imaging. The Crump Institute faculty includes scientists with strengths in positron emission tomography (PET), magnetic resonance imaging (MRI), cryo-Electron Microscopy, confocal microscopy, pharmacology, synthetic chemistry, nuclear medicine, molecular biology, imaging physics, and biomathematics. Active areas of current research which bring together various faculty include the repeated imaging of gene expression in living mice using microPET. The ideal candidate will bring to the Institute skills in the development of murine models of disease and in molecular biology, and share with the members of the Institute an interest in imaging biological events in these animals in real time, in a non-invasive manner.

Candidates should have a Ph.D. in Molecular Biology, Cell Biology, Pharmacology, or another relevant field. Foremost, the applicant should be a highly qualified biologist with a strong desire to study biological models in vivo with rapidly evolving imaging modalities (e.g., PET, MRI). Research experience in the development of disease models (e.g., knockout/transgenics) for biological imaging applications is preferred. Exposure to in vivo imaging is preferred but not mandatory. The successful candidate will have made significant scientific contributions and will be expected to develop a well-funded research program. Teaching of graduate students and M.D./Ph.D. students is expected.

Send curriculum vitae and a description of research accomplishments and plans to: Dr. Sam Gambhir, Chair, Faculty Search Committee, Crump Institute for Biological Imaging, UCLA School of Medicine, A-222 CIBI, PO BOX 951770, LA, CA 90095-1770. Applicants should also arrange to have three letters of recommendation sent to the same address.

At Monsanto, we share a common goal - to help people lead longer, healthier lives. We are pioneering the use of life-science technologies to understand how the connections between human health, nutrition and agriculture can be used to develop products to improve the quality of life for everyone, everywhere. To achieve this goal, we are selectively hiring the best and the brightest people in the world - people who can make a difference and want to leave their mark. Can you see yourself working on our dream of helping to improve food, health and hope in the world? Do you think about what you can achieve and the difference you, personally, can make? All of us at Monsanto ask these questions daily. It's what brought us together and keeps us together. Imagine the possibilities - a better world, healthier families, a more enjoyable life. We are a team with a dream, and we would like you to be a part of it.

RESEARCH ENTOMOLOGIST

Working on a team to develop transgenic products for the control of corn insect pests, you will be responsible for the design and coordination of a variety of lab and field tests. As you will be a key decision-maker on the team, we require a Ph.D. (MS w/ appropriate experience) in Entomology, Biological Sciences or a related field. You must have sound knowledge of insect ecology and biology as well as a good understanding of recent advances in biotechnology. Experience in lab experimentation, principles of experimental design and statistical analysis are also essential. Strong communication skills, computer competencies and the ability to excel in a diverse, multi-disciplinary team-based research environment is necessary.

For consideration **FOR THE ABOVE POSITION**, please send your resume to: **The Monsanto Company, Job Code: SCMG-3783, 700 Chesterfield Pkwy North, Mail Code: GG4C, St. Louis, MO 63198; Fax: 314/737-7015.**

SENIOR SCIENTIST

This position requires a self-motivated, creative scientist with a research background in the pharmacology of inflammatory disease processes, including the modulation of activity of inflammatory cells, cytokine production and inflammatory disease modification. You should have a broad mechanism-based understanding of these processes at the molecular, cellular and whole animal levels. Our Discovery Pharmacology group seeks to translate these mechanisms and skills into new therapeutic opportunities in diseases associated with inflammation or angiogenesis. You must be a Ph.D. in Pharmacology and have 6-10 years experience in the field. Experience in the pharmaceutical industry is preferred. You will need strong communication skills and the ability to excel in and contribute to a multi-disciplinary team focused on achieving objectives. **Job Code: SP-MC**

ENZYMOLOGIST

This position requires a skilled professional with a BS (MS preferred) and 3-5 years of academic or industrial experience in enzymology/protein purification. You should have broad knowledge of biochemistry as well as signal transduction biochemistry during immune cell activation in vitro. The technical skills necessary for success in this position include the development of enzyme assays, protein purification technology, column chromatography, electrophoresis, Western analysis and computer skills with an emphasis on data analysis and graphics. You must excel in a challenging team-based environment. **Job Code: ENZ-CT**

MOLECULAR BIOLOGIST (BS/MS)

You must have a BS/MS with 3-5 years of academic or industrial experience in molecular biologic techniques with broad training in biochemistry as well as signal transduction biochemistry during immune cell activation in vitro. Necessary technical skills include cloning, transfection technology, gel shift analysis, and other molecular applications for elucidation of signaling pathways. Computer skills with knowledge of database searching, data analysis and graphics is essential along with the ability to work well in a team-based environment. **Job Code: MB-CT**

POSTDOCTORAL TRAINING POSITION

We are looking for a recent or soon to be Ph.D. scientist trained in biochemistry, pharmacology, and/or lipid metabolism to dissect the role of lipid pathways in immune cell physiology and in vivo models of inflammation. Training in cellular immunology or cellular biology and tissue culture is required and training in arachidonic acid metabolism is advantageous. Please direct CV's with a list of 3 references and a cover letter detailing your experience and scientific interests to Dr. Philip Needleman, Senior Vice President and Chief Scientist and Dr. Catherine Tripp, Senior Research Scientist. **Job Code: PD-CT**

For consideration **FOR THE ABOVE 4 POSITIONS**, please send resume to: **The Monsanto Company, Job Code: (select from above), 700 Chesterfield Parkway North, Mail Code: BB5B, St. Louis, MO 63198; Fax: 314/737-6419.**

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NATIONAL EXPOSURE RESEARCH LABORATORY

The U.S. Environmental Protection Agency's National Exposure Research Laboratory in Research Triangle Park, North Carolina, is seeking qualified candidates to fill a variety of senior Human Exposure Measurements and Modeling research positions. The selected Principal Investigators will plan and conduct high priority human exposure measurements and modeling research in support of the Agency's Particulate Matter (PM), Food Quality Protection Act (FQPA), Dermal/Non-Dietary Ingestion, Biomarker, Pesticides and Persistent Bioaccumulative Toxics (PBTs), National Human Exposure Assessment Survey (NHEXAS), and Air Toxics programs.

Human Exposure Measurements Scientist (GS 13/14/15)

Primary responsibilities include: developing exposure measurements study designs; planning/conducting exposure field studies; analyzing, validating and interpreting exposure results; and reporting the results in the peer reviewed scientific literature.

Human Exposure Modeling Scientist (GS 13/14/15)

Primary responsibilities include: developing and validating personal and population exposure and dose models; statistically analyzing available multimedia exposure data; developing inputs and exposure factors to multimedia exposure models; integrating microenvironmental pollution and multimedia exposure data with demographic and cohort-specific time-activity data; and reporting the study results in the peer reviewed scientific literature.

Environmental Statistician/Modeler (GS 13/14/15)

Primary responsibilities include: conducting multipathway human exposure modeling research; conducting time activity and survey questionnaire research; and performing statistical analysis of multimedia, multipathway environmental measurement, human exposure, and exposure and physical factors data collected by various ORD field studies.

Statistician (GS 13/14/15)

Primary responsibilities include: developing statistical techniques for assessing exposures to environmental pollutants; developing statistically-defensible field exposure study designs/surveys; and analyzing, interpreting, and reporting environmental measurement, human exposure, time activity, and exposure and physical factor data collected by various ORD field studies.

Multiple full-time positions with full benefits (relocation expenses, health/life insurance, retirement, and vacation/sick leave) are anticipated to be filled with a salary range from \$56,951 to \$102,907 based on documented qualifications. **U.S. citizenship is required.** Candidates must meet the U.S. Office of Personnel Management qualifications requirements including specific educational coursework. Potential candidates are requested to submit their resumes documenting their past and current exposure assessment research, national and/or international recognition as a human exposure researcher, scientific publications, and other special qualifications to: **Ms. Dianne Dean, US EPA, HEAB/HEASD/NERL, MD-56, Research Triangle Park, NC 27711, no later than July 2, 1999.**

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THE CHINESE UNIVERSITY OF HONG KONG

Faculty of Medicine

The University (founded in 1963) offers comprehensive programmes up to PhD level, with student enrolment in 1998-99 standing over 12,000. The Faculty of Medicine offers undergraduate and postgraduate programmes in Medicine, Nursing and Pharmacy. The MBChB programme admits 160 students annually. Clinical courses are taught at the Faculty's 1,450-bed teaching hospital, the Prince of Wales Hospital (which is one of the regional hospitals in Hong Kong) and at the Lek Yuen Health Centre.

Applications are invited for the following post:

Department of Surgery

Lecturer (carrying the academic title of Assistant Professor or Associate Professor, as appropriate)
(Ref. 99/026(665)/2) (closing date: 15 May 1999)

Applicants should have a PhD degree, several years' postdoctoral experience, a proven track record of scientific excellence, good communication skills (including demonstrated written and oral proficiency in English), and the ability to organize and motivate. Experience in molecular biology and/or immunology and/or cell biology and biochemistry is required. The appointee will supervise a research division of eight to nine technical staff, coordinate and assist in running on-going projects, as well as supervise postgraduate research students' studies. Experience in laboratory administration will be an advantage. Appointment will initially be made on a two-year contract, renewable subject to mutual agreement. The appointee is expected to assume duty in mid-November 1999 or as soon as possible thereafter.

Annual Salary and Fringe Benefits

Lecturer: HK\$554,280 to HK\$925,980 by 10 increments (approx. exchange rate in March 1999: £1 = HK\$12.55; US\$1 = HK\$7.75) Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full pay, medical and dental care, and where applicable children's education allowance, housing benefit for eligible appointee (subject to the rules for the prevention of double housing benefits) and a contract-end gratuity (up to 15% of basic salary).

Further information about the University and the general terms of service for teaching appointees is available on our World Wide Web homepage <<http://www.cuhk.edu.hk>>.

Application Procedure

Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees to the Personnel Office, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong (Fax: (852) 2603 6852) on or before **15 May 1999**. Please quote the reference number and mark "Application" on cover. [Note: The University reserves the right not to fill the post or to fill the post by invitation.]

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Fax: 202-289-6742
E-mail: science_displayads@aaas.org

Europe: Debbie Cummings
Phone: 44 (0) 1223 326 500
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Maria Y. Giovanni, Ph.D.
Division of Extramural Research
National Eye Institute
301-496-0484
myg@nei.nih.gov

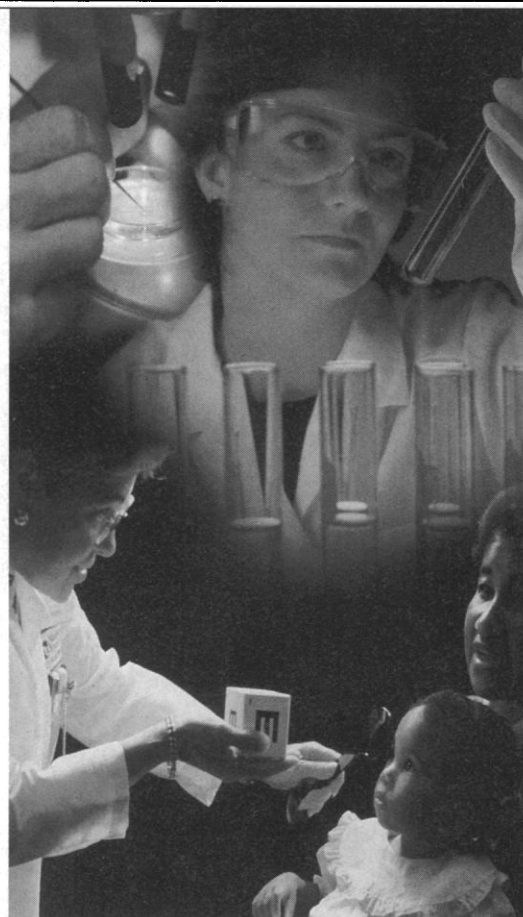
NEI Web site: <http://www.nei.nih.gov> and click on "Funding Information"

NEI Scholars must be U.S. citizens, non-citizen nationals, or U.S. permanent residents.

■ Scientists with 5 years or less of postdoctoral training are eligible to apply.

■ NEI Scholars receive up to 4 years of support for laboratory or clinical research training at the NEI.

■ NEI Scholars then receive 2 years of grant support at an extramural institution.



Upstate BioTechnology, Inc. is the established leader in biomedical reagents for cell signaling research located in Lake Placid, NY, the site of the 1980 winter Olympics, with a sales and marketing office in Boston, MA (www.Upstatebiotech.com). Our mission is to work with researchers in life sciences to identify and develop those reagents, which currently limit the pace of research. We are seeking outstanding candidates to fill the following two positions:

1) **New Product Acquisition and Development Specialist.** Primary responsibilities include acting as scientific liaison between academic researchers and internal staff and assist R&D Director to coordinate New Product Development activities. Candidates must have a M.S. in Biology with extensive hands-on experience with immunoblotting, immunoprecipitation, and enzyme assays. Must be proficient in English with good verbal, written and communications skills. Excellent personal skills are essential.

2) **R&D Technician.** Candidates must have more than 2 years experience in related field with a B.Sc. or a M.S. in Biological science. Experience with antibody purification and characterization using analytic skills including immunocytochemistry, immunoblotting, and immunoprecipitation is highly desirable.

Applicants should send a cover letter and resume to: **Employee and Public Relations Department, Upstate Biotechnology, Inc. 199 Saranac Ave., Lake Placid, NY 12946. FAX (518) 523 1336. E-mail: nfinn@upstatebiotech.com. EOE**

Clinician-Scientist in Ophthalmology

Applications are invited for a full-time retina clinician-scientist in patient care, teaching, and vision research to join a growing team of established investigators with vision related interests and a balanced ophthalmology practice. Responsibilities include independent and collaborative research with both basic scientists and clinicians, and medical student, postdoctoral and resident teaching and patient care. Candidates must complete an accredited ophthalmology residency, but applications will be accepted by candidates currently in ophthalmology residency or fellowship training. Candidates must be Board eligible at the time of starting their appointment and have a valid Washington State Medical license. Fellowship training in retina should be completed or planned. A solid background and foundation in basic research as evidenced by training and publication in scientific journals is required. A minimum of one-year postdoctoral research experience is required. Individuals with specific interests in retinal degeneration or molecular genetics are encouraged to apply. Exceptional candidates will be considered for The Ray and Grace Hill Endowed Chair. An appointment at the Acting Instructor or Assistant Professor level will be considered for applicants in training or recently out of training. Candidate with exceptional qualifications will be considered for appointment at the associate professor or professor level.

Applicants should send their curriculum vitae, a specific statement of research plans, and arrange for four letters of recommendation to:

Steven E. Wilson, MD
Professor & Chair
Department of Ophthalmology
University of Washington School of Medicine
Department of Ophthalmology, Box 356485
Seattle, WA 98195-6485.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

IMMUNOLOGY FACULTY POSITIONS ROSWELL PARK CANCER INSTITUTE

Under the leadership of a newly appointed Department Chair, the Roswell Park Cancer Institute is committed to the expansion of its immunology program. The Department of Immunology invites applications for four tenure-track positions equivalent to the **ASSISTANT, ASSOCIATE, and FULL PROFESSOR** level. Candidates are sought with special interest in tumor immunology to complement and broaden the expertise of existing faculty in the department. Specific research areas would include, but are not limited to, T cell activation, antigen processing and presentation, cytokines, and gene therapy.

Selection will be based on excellence in research and potential to maintain an outstanding independent research program. We encourage applicants who desire an environment that fosters interaction with a diverse group of scientists and clinicians both within the Institute and the State University of New York at Buffalo. Applicants should send a curriculum vitae, description of research accomplishments and future objectives, and the names and addresses of three references to:

Dr. Yasmin Thanavala, Search Committee Chair
Department of Immunology
Roswell Park Cancer Institute
Elm and Carlton Streets
Buffalo, NY 14263

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TENURE-TRACK FACULTY POSITION IN ECOLOGY DEPARTMENT OF BIOLOGY PENN STATE

The Department of Biology at The Pennsylvania State University ([website: http://www.psu.bio.edu](http://www.psu.bio.edu)) has an opening for an Ecologist at the **ASSISTANT PROFESSOR** level (tenure-track) or **HIGHER RANK**, depending on qualifications. We are seeking a candidate with expertise in quantitative or theoretical ecology and whose interests complement existing research programs in our department. Successful applicants will be expected to develop an externally funded research program and to contribute to teaching at the undergraduate and graduate levels. The starting date is negotiable. Please send curriculum vitae, selected reprints, and statements of research and teaching interests, and have at least three letters of reference sent to: **Dr. Austin Hughes, Search Committee Chair, Box S, Department of Biology, 208 Mueller Laboratory, University Park, PA 16802**. Preliminary review of the applications will begin June 1, 1999, but the position will remain open until filled. *Affirmative Action/Equal Opportunity Employer.*

RETINA/VITREOUS/GENETICS

Storm Eye Institute seeks candidates to fill two **FACULTY POSITIONS**. Retina/vitreous: Fellowship-trained Clinician and Investigator in the field of retina/vitreous. Board-certified. Senior physician with academic experience preferred. Excellent research collaboration opportunities. Retina/genetics: Full-time **RESEARCH POSITION** for Ph.D. or M.D. to conduct research in the area of retinal cell biology or ocular genetics of retinal diseases. Large patient base for clinically related studies. Preference will be given to candidates with existing grant support and productive publication record. Growing faculty of 17 in a recently expanded university eye institute. Rapidly growing practice, competitive salary, excellent benefits. Applications accepted until positions filled. Cover letter, curriculum vitae, and names of three references to: **M. Edward Wilson, M.D., Chairman, Department of Ophthalmology, Medical University of South Carolina, 167 Ashley Avenue, P.O. Box 250676, Charleston, SC 29425. FAX: 843-792-1166.** *Equal Opportunity Employer/Minorities/Females/Disabled. Qualified minority, women, and disabled candidates are encouraged to apply.*

POSITIONS OPEN

TENURE-TRACK POSITION LABORATORY OF CELLULAR AND MOLECULAR BIOLOGY

The Laboratory of Cellular and Molecular Biology (LCMB), Division of Basic Sciences (DBS), of the National Cancer Institute (NCI), National Institutes of Health has a long tradition of excellence in the investigation of signal transduction pathways involved in both normal cellular function and malignant transformation. The Laboratory now invites applications for a tenure-track position to study the Cell Biology of Signal Transduction. The applicant should have the potential to develop an independent basic research program in cellular and molecular biology, with emphasis on understanding basic signal transduction processes involved in normal or malignant proliferation. Preference will be given to candidates with expertise in the imaging of live cells. This position is available for a Ph.D., M.D., or M.D.-Ph.D. with a salary commensurate with education and experience. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: **Ms. Michelle Porturica, Executive Secretary, Laboratory of Cellular and Molecular Biology, DBS, NCI, Building 41, Room A101, Bethesda, MD 20892-5055. Telephone: 301-435-2515; FAX: 301-435-2779; e-mail: porturim@dc41.nci.nih.gov.** *Candidates must be U.S. citizens or permanent residents.* NIH tenure track Investigators with educational debts may be eligible for the NIH Loan Repayment Program. Applications to be post-marked by June 14, 1999. *The NCI is an Equal Opportunity Employer.*

Plant molecular genetics position available immediately (**ASSISTANT, ASSOCIATE, or PROFESSOR**) to develop and maintain a nationally recognized basic research program emphasizing soybean molecular genetics. The successful individual will work with a strong team of plant breeders and other plant research groups within and outside the university. For additional information and full announcement, contact: **Professor Arnel Hallauer, Search Committee Chair, Department of Agronomy, Iowa State University, Ames, IA 50010. E-mail: mlents@iastate.edu; Telephone: 515-294-7823.** Closing date is May 31, 1999 or until suitable candidate is identified. Details available at [website: http://www.iastate.edu/~hrs_info/jobs/2academic.htm#993137](http://www.iastate.edu/~hrs_info/jobs/2academic.htm#993137).

Analytical chemistry. Cleveland State University invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR** in analytical chemistry for fall 1999. The Department of Chemistry offers the B.S., M.S., and Ph.D. degrees. The Ph.D. program specializes in clinical/bioanalytical chemistry and is jointly administered with the Cleveland Clinic Foundation. Applicants must have a Ph.D. in chemistry or related field, be able to develop a nationally competitive research program, and be able to teach both undergraduate and graduate analytical chemistry courses. Postdoctoral experience and demonstrated accomplishments in research that complements existing expertise in the department (i.e., bioanalytical, biomedical, clinical, pharmaceutical areas) are preferred.

Qualified applicants should submit a curriculum vitae, a description of research plans, a statement of teaching experience and/or interests, copies of graduate transcripts, and arrange for three letters of recommendation to be sent to: **Dr. Yan Xu, Chair, Analytical Chemistry Search Committee, Department of Chemistry, Cleveland State University, Cleveland, OH 44115.** Review of applications will begin on June 1, 1999, and will continue until the position is filled. For further information, visit the Internet site at [website: http://www.csuohio.edu](http://www.csuohio.edu). Or **Telephone: 216-687-3991; FAX: 216-687-9298.** *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.*

POSITIONS OPEN

ASSISTANT PROFESSORS DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCES The Johns Hopkins University

The Department of Environmental Health Sciences has openings for two tenure-track Assistant Professors. Applicants should have interests and accomplishments in the area of molecular toxicology or biomarkers research. Successful candidates will be expected to establish independent research programs ranging from molecular mechanisms of cellular injury to the development and application of biomarkers that are related to an important human health problem. The research interests of the faculty include chemical carcinogenesis, inflammatory processes, oxidative stress, DNA damage and repair, xenobiotic metabolism, mechanisms of signal transduction, chemoprevention, pulmonary smooth muscle regulation, health effects of air pollutants, determinants of host susceptibility, and molecular biomarkers. The successful applicant will have research interests and employ experimental approaches that complement one or more of these areas. The new Assistant Professors will also be expected to participate with the other faculty in Departmental teaching programs and mentoring of pre- and postdoctoral students. Interested candidates should send a curriculum vitae, a succinct statement of their research accomplishments and future plans for developing an independent research program, along with the names of three individuals who can be contacted for references to:

**Molecular Toxicology and Biomarkers
Search Committee**
c/o Kay Castleberry, Search Coordinator
Department of Environmental Health Sciences,
Room 1102
The Johns Hopkins School of Hygiene
and Public Health
615 North Wolfe Street
Baltimore, MD 21205

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

BIOINFORMATICS SOFTWARE ENGINEER. Santa Fe, New Mexico. Create, design, and implement bioinformatics data models for Integrated Bioinformatics Information System; conceptualize algorithmic solutions of biology mechanisms and translate them into software applications; design, develop bioinformatics methods for biological data acquisition, storage, analysis, and integration, with object-oriented design; design, analysis, and implement bioinformatics software with Corba, Java, C++, Perl, Tcl/tk, Unix shell, and relational database Sybase or Oracle in the client-server Internet communication manner. Master's degree in computer science; two years of experience in job; must have two years of experience in life science research and biological data analysis with bioinformatics software tools; 40 hours per week; \$50,680.00 per year. *Proof of legal authority to work in United States.* Send résumé in duplicate to: **NMDOL, New Mexico State Employment Service Office, 301 West DeVargas, Santa Fe, NM 87501** to the attention of **Charles Pacheco**, with a reference to Job Order #0426754.

BIOLOGY. Full-time, one-year position for the 1999-2000 academic year to teach both semesters of introductory biology. Ph.D. preferred. Ursinus College, 25 miles northwest of Philadelphia, is a highly selective, residential, coeducational, liberal arts college of 1,250 students with a long tradition of strength in science. Laboratory facilities, supported by numerous grants from NSF and HHMI, are outstanding. Research not required for position but would be supported if it involved undergraduates. Send letter of application, curriculum vitae, and three letters of recommendation to: **Dr. Robert Dawley, Department of Biology, P.O. Box 1000, Ursinus College, Collegeville, PA 19426-1000.** Review of applications begins immediately and continues until position is filled. *Ursinus College is Equal Opportunity Employer/Affirmative Action.*

**National Institutes of Health
National Heart, Lung, and Blood
Institute**

Post-Doctoral Research
Fellowship Positions

The Pulmonary - Critical Care Medicine
Branch (P-CCMB), NHLBI

Post-doctoral research fellowship positions are available for individuals interested in cell and molecular biology, as well as bench to bedside translational research. Opportunities for post-doctoral research fellowships exist within intramural PCCMB laboratories investigating clinical and basic research relating to signal transduction, nitric oxide, G proteins, protein modification, vesicular trafficking and cyclic nucleotide phosphodiesterases. Positions are available for a minimum of 2 years and may be extended for additional training. Candidates should possess a Ph.D. or M.D. degree or equivalent. Positions are available immediately. Interested individuals should submit a letter of interest, curriculum vitae, and three letters of recommendation to Joel Moss, M.D., Ph.D., Chief, Pulmonary-Critical Care Medicine Branch, NHLBI, NIH, Building 10, Room 6D03, MSC 1590, Bethesda, Maryland, 20892-1590.

**NIH IS AN EQUAL OPPORTUNITY
EMPLOYER**

**Staff Scientist
Analytical Services**

ViroMed Biosafety Laboratories' newly created Analytical Services Dept., which provides GLP/GMP compliant contract testing services for the biotech, pharmaceutical, and medical device industries, has an opening for a Staff Scientist. Using state of the art equipment, you will be responsible for the planning and implementation of the overall testing strategy as well as assay development and validation for Analytical Services. In addition, you will serve as study director and interact with clients and regulatory authorities.

Qualified candidate will have an MS or PhD in the biological or chemical sciences plus 2 or more years' experience working in an analytical lab in a biopharmaceutical or contract testing environment. A strong background in GMP/GLP guidelines is highly desirable.

ViroMed Biosafety is located in the greater Philadelphia region - an area rich in scientific, cultural and recreational diversity. We offer excellent opportunities for professional growth, a competitive salary, relocation assistance, health benefits and a 401(k) plan. Send c.v. and salary requirements, to:

ViroMed Biosafety Laboratories,
Attn: SAS499/R,
Seetharam,
1667 Davis St.,
Camden, NJ 08104.
FAX (609) 342-8078.
EOE M/F/D/V



GLOBAL OPPORTUNITIES

**Industry Department
The Government of the Hong Kong Special Administrative Region**

**Vacancies for Senior Biotechnology Officer
and Biotechnology Officer
(Non-Civil Service Contract Staff)**

We are looking for suitable candidates to fill the vacancies of Senior Biotechnology Officer and Biotechnology Officer in the Industry Department of the Hong Kong Special Administrative Region.

Duties:

The Senior Biotechnology Officer and the Biotechnology Officer work as a team to carry out the following duties.

- (i) to provide technical advice on biotechnology-related matters;
- (ii) to examine and evaluate biotechnology-related project proposals and monitor the progress of approved projects under Industry Department's funding schemes;
- (iii) to provide secretariat and technical support to the Biotechnology Committee of the industry and Technology Development Council and its sub-committees;
- (iv) to implement programmes that facilitate the development of biotechnology-related industries;
- (v) to maintain regular contacts with local and overseas manufacturers, trade and industrial organisations, educational and training institutions and other relevant bodies in the biotechnology field; and
- (vi) to undertake ad hoc projects or studies in relation to biotechnology-related industries.

Qualifications:

Applicants should have:

- (i) a 1st or 2nd class honours degree in biotechnology, biochemistry, biology, or a related subject from a Hong Kong university, or equivalent. A higher degree in relevant disciplines is preferred; and
- (ii) eight years' post-qualification experience in the relevant field for the post of Senior Biotechnology Officer and three years for the post of Biotechnology Officer. Experience in assessing the technical and commercial merits of projects in biotechnology-related fields and managing their operation is preferred.

Terms of Appointment:

Successful candidates will be appointed on 2 1/2 years non-civil service contract terms.

Salary:

HK\$917,820 per annum for Senior Biotechnology Officer and HK\$423,420 per annum for Biotechnology Officer.

Fringe Benefits:

- (i) A gratuity equivalent to 15% of the total basic salary drawn may be granted if the contract is satisfactorily completed with consistently high standard of performance and conduct.
- (ii) Rest days, statutory holidays (or substituted holidays), annual leave, maternity leave, sickness allowance, where appropriate, will be granted in line with the provisions in the Employment Ordinance of Hong Kong.
- (iii) A contribution to a Mandatory Provident Fund Scheme will be made where applicable, when Section 7A of the MPF Schemes Ordinance (Cap. 485), as amended by the Provident Fund Schemes Legislation (Amendment) Ordinance 1998, comes into effect in Hong Kong.

Application Procedure:

Application should be made in letter form together with a full C.V. giving details of personal particulars, education, and present and previous employment (copies of academic qualification certificates and record of previous employment should be provided). Applications should reach the Personnel Section, the Industry Department, Room 501, 5/F, Ocean Centre, 5 Canton Road, Tsim Sha Tsui, Kowloon, HONG KONG not later than **15 May 1999**. Candidates who are selected for interview will normally receive an invitation in about six weeks from the closing date for application. Only shortlisted candidates will be notified of the result of application.

POSITIONS OPEN

RESEARCH ASSOCIATES/ POSTDOCTORAL POSITIONS SIGNAL TRANSDUCTION

Three positions are available to study endothelin-induced intracellular signaling pathways, cellular regulation of prostaglandin synthesis, and signaling through adaptor proteins. One position is to study mechanisms which link G-protein-coupled endothelin receptors to activation of MAP kinase signaling cascades (Foschi et al., "Biphasic activation of Ras by endothelin-1..." *EMBO J.* 16:6439-6451, 1997; Dulin et al., "RGS3 inhibits G protein-mediated signaling..." *Mol. Cell. Biol.* 19:714-723, 1999). The second position is to study the role of distinct intracellular signaling cascades in the regulation of cyclooxygenase 2 (COX-2) and COX-2-mediated gene expression (adenoviral-mediated gene transfer and screening of cDNA micro-arrays will be used). The third position is to study cellular regulation of signaling through adaptor protein Crk (Sorokin et al., "Crk protein binds to PDGF receptor and IRS-1..." *Oncogene* 16:2425-2434, 1998). Requirements include a Ph.D. or M.D. degree and a sound background in biochemistry, cell biology, and molecular biology. Interested candidates should send their curriculum vitae plus names and telephone numbers of three references to: **Andrey Sorokin, Ph.D., Medical College of Wisconsin, Cardiovascular Research Center, 8701 Watertown Plank Road, Milwaukee, WI 53226.** E-mail applications can be sent to e-mail: sorokin@post.its.mcw.edu.

SCIENCE DIRECTOR OF DIABETES RESEARCH

The Department of Pediatrics of the University of Pennsylvania School of Medicine at The Children's Hospital of Philadelphia, is recruiting a full-time M.D., M.D.-Ph.D., or Ph.D. laboratory scientist in the Division of Endocrinology with basic research related to diabetes, including insulin regulation or insulin action. The position is as **ASSOCIATE or FULL PROFESSOR** in the tenure track. Rank will be determined based on qualifications and background. Please send curriculum vitae to: **Dr. Thomas Moshang, Jr., Division Chief, Endocrinology, The Children's Hospital of Philadelphia, 34th and Civic Center Boulevard, Philadelphia, PA 19104.** The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOINFORMATICS RESEARCH ENGINEER. Santa Fe, New Mexico. Duties include collect and analyze genetic research data on gene sequence, expression, signal transduction, biological pathways, and other raw data by applying knowledge of bioinformatics, related tools, and algorithm; integrate data for multidisciplinary research projects. Master of Science degree in biology or microbiology with two years of experience in job offered required. Must have two years of experience in biological or bioinformatics research. Work 40 hours per week. Wage: \$46,731 per year. Proof of legal authority to work in United States. Send résumé in duplicate to: **NMDOL, New Mexico State Employment Service Office, 301 West De Vargas, Santa Fe, NM 87501** to the attention of Charles Pacheco, with a reference to Job Order #0426750.

RESEARCH ASSOCIATE POSTDOCTORAL POSITION IN IMMUNOLOGY

A NIH-funded Postdoctoral position available immediately to investigate the role of TNF family members in the regulation of immune responses. Experience in molecular biology and immunology is required. Please send curriculum vitae and names of references to: **Yang-Xin Fu, M.D., Ph.D., Department of Pathology, N401, MC6027, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637.** E-mail: yfu@midway.uchicago.edu. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



AMERICAN CHEMICAL SOCIETY INTERNATIONAL ACTIVITIES

The American Chemical Society (ACS) has a job opportunity in our International Activities Office working on issues related to Chemists and Chemical Engineers; analyzing/interpreting data on the international chemical enterprise; writing reports; coordinating projects; identifying funding sources; writing proposals; attending meetings; budgeting; and assisting with office management. The ideal candidate will possess a degree in international relations or a related area and five years of related experience. A chemistry/science degree or background is highly desirable. The job requires international travel. The ACS offers a complete benefits package. Send a cover letter, résumé, and salary requirements to: **American Chemical Society, Attn: ELM22-99, 1155 16th Street N.W., Washington, DC 20036.** FAX: 202-776-8295. Visit the ACS website: www.acs.org.

Equal Opportunity Employer.

GENE TARGETING SPECIALIST/ MOLECULAR BIOLOGIST ES CELL CULTURE

The Transgenic Mouse Facility of the Memorial Sloan-Kettering Cancer Center, headed by **Dr. Elizabeth Lacy**, seeks a highly motivated Research Specialist experienced in gene targeting and ES cell culture; genotyping of transgenic and targeted mice by Southern and PCR; and preparation/purification of transgene and targeting vectors. Requires two to three years of relevant experience. Animal husbandry experience also desirable. Candidates at all levels (B.S., M.S., and Ph.D.) will be considered.

Salary will be commensurate with experience. Interested individuals should send their curriculum vitae and the names and contact information of three references to: **Employment Department, #99070.3R, Memorial Sloan-Kettering Cancer Center, 633 Third Avenue, 5th Floor, New York, NY 10017.**

Equal Opportunity Employer/Affirmative Action.

Memorial Sloan-Kettering Cancer Center. The Best Cancer Care. Anywhere.

BIOLOGIST. Davis and Elkins College invites applications for the tenure-track position of **ASSISTANT PROFESSOR** of biology to teach human anatomy and physiology, cell biology, histology, vertebrate physiology, and participate in the major's introductory biology sequence. Ph.D. in an appropriate field, a broad background in biology, and a demonstrated potential for effective college teaching are required. Davis and Elkins College is a small, private, church-related liberal arts institution. Further information regarding the College and the Biology and Environmental Science Department can be found at the website: www.dnc.edu. Review of applications will begin May 1, 1999, and the position starts August 16, 1999. Interested candidates should send a letter of application including a statement of teaching philosophy, current curriculum vitae, and three references to: **Dr. Laurence B. McArthur, Interim Vice President and Dean of Faculty, Davis and Elkins College, 100 Campus Drive, Elkins, WV 26241.**

An Equal Opportunity/Affirmative Action Institution.

RESEARCH FELLOW

POSTDOCTORAL POSITION available for study of ways to suppress the immune response to coagulation factor VIII in a mouse model of severe hemophilia A. Experience and significant accomplishments in mouse research on the mechanisms of development and suppression of immunity are required. Good verbal and written skills are also required. Position funded by NIH grant to **Dorothea Scandella, Ph.D.** Submit curriculum vitae and three references to: **Dr. Scandella, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855.** *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

POSITIONS OPEN

NMR SPECTROSCOPIST LABORATORY MANAGER TEXAS A&M UNIVERSITY

The Biomolecular NMR Facility at Texas A&M University invites applications for an NMR Spectroscopist/Laboratory Manager to play an integral role in the new High Resolution NMR Laboratory located in the Department of Biochemistry and Biophysics. The Laboratory houses two new four-channel Varian Inova spectrometers (500 and 600 MHz) both of which are equipped with triple-axis pulsed field gradient amplifiers and probes. It is anticipated that this individual will play a major intellectual role, collaborating with an expanding faculty in the area of NMR spectroscopy of proteins and nucleic acids. This individual will also help implement new multidimensional pulse sequences and periodically upgrade the NMR instrumentation. A Teaching Assistant will be available to help supervise and maintain the NMR spectrometers, and to train new users. Importantly, he/she will be a member of the NMR users committee and be able to participate in policy-making decisions. The successful applicant will have extensive experience in maintaining and troubleshooting NMR spectrometer hardware. Expertise in maintaining, upgrading, and interfacing computer software and hardware is also a plus. A Ph.D. in chemistry or related field is highly desirable, although not required. Salary and benefits are highly competitive and depend upon the level of experience. Applicants should submit a curriculum vitae, and arrange to have three letters of reference sent to: **Dr. David P. Giedroc, Faculty Director, High Resolution NMR Laboratory, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128.** *Texas A&M University is an Equal Opportunity Employer.*

PLANT PHYSIOLOGIST/BIOCHEMIST

The National Research Initiative Competitive Grants Program of the U.S. Department of Agriculture seeks a qualified scientist to serve as **PROGRAM DIRECTOR** for grants administration in the area of plant physiology and biochemistry. Candidates must have an advanced degree with major study in one of the areas listed above or a closely related field. It is preferable that the candidate have a Ph.D. or equivalent specialized experience. Familiarity with plant molecular biology and plant genetics is required for this position. This is a competitive vacancy, open to all United States citizens.

Closing date is May 17, 1999. Applicants will be evaluated against Quality Ranking Factors, which are detailed in the vacancy announcement. For information on the position, contact: **Mr. Jeffery Conrad, Acting Division Director, National Research Initiative Competitive Grants Program, Cooperative State Research, Education, and Extension Service, USDA, STOP 2241, 1400 Independence Avenue S.W., Washington DC 20250-2241.** Telephone: 202-401-6188; e-mail: jconrad@recusda.gov. For information on application procedures/forms, contact: **The Human Resources Division, Telephone: 301-344-3960.** The Vacancy Announcement can also be obtained from the Human Resources Division or via the Internet, website: <http://www.recusda.gov/hrd/99-082.htm>. *USDA is an Equal Opportunity Employer.*

RESEARCH FELLOW WASHINGTON, D.C. AREA

Two positions available immediately for Ph.D. Biochemist or Cell and Molecular Biologist to investigate structure and function of proteins involved in cell adhesion and extracellular matrix interactions. Previous experience in protein expression and transfection desirable. Send curriculum vitae and names of three references to: **K. C. Ingham, American Red Cross Holland Laboratory, Rockville, MD 20855-2743.** *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

Postdoctoral Fellowship in Renal Diagnostics and Therapeutics

Several positions are available to use animal, genomic and translational approaches to find novel methods to detect and treat acute renal failure. Several projects are already in clinical trials. Major interests include alpha-MSH, IL-10, inflammation, rapid renal function tests, and informatics. Experience in tissue injury/repair, molecular or cell biology, or clinical research desirable. Position available June 1999. Applicants must have a M.D. and/or Ph.D. Please send CV, research interests, and names of 3 references to:

Dr. Robert Star, Renal Diagnostics and Therapeutics Unit, Metabolic Diseases Branch, Building 10, Room 3N110, 10 Center Drive MSC 1268, Bethesda, MD 20892-1268. Voice (301) 496-3092. Fax (301) 402-0014. E-mail: robertst@intra.niddk.nih.gov

GLOBAL OPPORTUNITIES

THE HOWARD FLOREY INSTITUTE OF EXPERIMENTAL PHYSIOLOGY AND MEDICINE

MELBOURNE, AUSTRALIA

HOWARD FLOREY INSTITUTE SENIOR RESEARCH FELLOWSHIPS

We are seeking outstanding scientists who wish to establish a research career in Australia in the general field of neuroscience, especially:

- Neurochemistry
- Neural Development
- Genomics

It is expected that the candidates would have relevant research experience at the postdoctoral level and have a substantial record of publications in the relevant area of research in leading international journals, demonstrating leadership, innovation and achievement.

The Howard Florey Institute is a leading biomedical research institute with an increasing focus in the neurosciences, and is situated on the campus of the University of Melbourne. The Institute has available state-of-the-art facilities in molecular biology, peptide and protein chemistry, and functional neuroimaging. The Fellowship, tenable for 5 years, will provide \$A150,000 per annum towards the Fellow's salary, technical and operating costs. The level of appointment will be commensurate with experience.

Details of the position and further information about the Institute can be obtained by contacting the Director. Applications should include a detailed curriculum vitae, an outline of research interests and future plans, and the names of 3 referees, and be addressed to:

Professor F. A. O. Mendelsohn, Director,
Howard Florey Institute, University of Melbourne,
Parkville, Melbourne, Victoria, Australia 3052.
Email: faom@hfi.unimelb.edu.au
Web page: <http://www/hfi.unimelb.edu.au>
Phone: (613) 9344 7333. Fax: (613) 9348 1707.
Closing date: 31 May 1999.

TMPV95241

UNIVERSITY OF PENNSYLVANIA

CHAIR OF THE DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

Recommendations and nominations are invited for the Chair of the Department of Computer and Information Science at the University of Pennsylvania. The Department has outstanding programs and superb research facilities in algorithms and computational biology, computer graphics and animation, computer vision and robotics, databases, logic and computation, natural language processing, networks and distributed systems, programming languages, and real time systems. In addition the Department is central to several interdisciplinary initiatives across the University through the Institute for Research in Cognitive Science (IRCS), jointly sponsored with the School of Arts and Sciences, and the Bioinformatics Center, sponsored by IRCS and the Institute for Medicine and Engineering (IME).

The University is seeking candidates with distinguished research backgrounds interested in leading a significant increase in the size and scope of the Department over the next several years. Since the Department has been selected as one of the six thrusts of the University's Agenda for Excellence, the new Chair will oversee substantial growth in faculty size and construction of its new building.

The Committee will now begin reviewing applications; the search will remain open until the position is filled. Recommendations and applications, accompanied by a CV and appropriate supporting materials, should be sent to:

Professor David Pope, Chair
of the Search Committee,
c/o Department of Materials Science
and Engineering, School of
Engineering and Applied Science,
University of Pennsylvania, 3231 Walnut Street,
Philadelphia, PA 19104-6272



*The University of Pennsylvania is an Equal Opportunity/
Affirmative Action Institution*

GLOBAL OPPORTUNITIES



RIKEN Brain Science Institute, Japan **LABORATORY FOR MOLECULAR PSYCHIATRY** **STAFF SCIENTIST**

This newly established laboratory invites applications for positions to study the molecular genetic mechanisms of psychiatric diseases. The research fields include linkage analysis, positional cloning, systematic genome analysis and functional analysis of candidate genes, and QTL mapping approach to animal behavioral traits. The RIKEN Brain Science Institute is a rapidly growing international research center located near Tokyo, Japan. Over 27 laboratories are engaged in molecular, cellular and system level investigations of the nervous system. The positions are well-funded and renewed annually for up to five years.

Applicants should have a Ph.D. and experience in at least one of the following areas: molecular biology, genome research, molecular genetics.

Candidates should submit a full curriculum vitae with two references to: **Dr. Takeo Yoshikawa, Laboratory for Molecular Psychiatry, Brain Science Institute, RIKEN, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan**
FAX: 81-48-467-9627, e-mail: takeo@brain.riken.go.jp

Closing date: 31 May 1999.

POSITIONS OPEN

RESEARCH ASSOCIATE FLOW CYTOMETRY MICROBIOLOGY

The Institute of Marine Science seeks a qualified scientist to operate a leading facility in the analysis of small cells, particularly marine bacteria, by flow cytometry. Minimum qualifications include a Bachelor's degree in microbiology or related sciences, demonstrated ability in advanced instrumentation; additional degree(s) are preferred. Duties include all aspects of flow cytometry operation and development, participation in research programs and field work involving aquatic microorganisms. Independent initiatives are encouraged. Beginning salary is \$16.46 per hour. For questions regarding this vacancy please contact: **Dr. D. K. Button, Telephone: 907-474-7708; e-mail: dkbutton@ims.uaf.edu.** For a more complete job description please access the following website: <http://uafjobs.alaska.edu/jobs/Exempt.html>. Send curriculum vitae to: **Juan A. Goula, School of Fisheries and Ocean Sciences, Room 245 O'Neill Building, University of Alaska Fairbanks, Fairbanks, AK 99775-7220.** The University of Alaska is an Affirmative Action/Equal Opportunity Employer and Educational Institution. In our efforts to diversify, we encourage applications from women and members of culturally diverse groups. Candidates must be eligible for employment under the Immigration Reform and Control Act of 1986. Your application for employment may be subject to public disclosure should you be selected as a finalist.

SYSTEMATIC ENTOMOLOGIST CALIFORNIA ACADEMY OF SCIENCES

The California Academy of Sciences invites applications for a regular faculty position (10-month annual basis) of **ASSISTANT CURATOR** of entomology. Individuals are sought who (1) have primary interest in, and commitment to, collection-based research in systematic entomology (including arachnids and myriapods); (2) are familiar with, and capable of employing, a range of systematic methods and techniques (e.g., comparative morphological, molecular, phylogenetic, and historical biogeographic analyses) in their research; (3) have interest and experience in field work; and (4) will contribute to the development and curation of a major collection of worldwide scope and use. Candidates must have a Ph.D. and an active research program. Responsibilities include original research, and participation in curatorial, administrative, and educational activities of the Academy. Detailed position description and other information are available through the Academy's website: www.calacademy.org/research. Applicants should forward a curriculum vitae, description of research goals, and the names, mailing and e-mail addresses, and telephone and FAX numbers of three references to: **Human Resources #ACE, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599.** Deadline for applications is September 1, 1999.

POSTDOCTORAL FELLOW. Applications are invited for immediate Postdoctoral Fellowships in cancer biology and genetics and hematopoietic stem cell development. Candidates must have a Ph.D. or M.D. with laboratory experience in molecular biology and protein analysis. Studies will examine the genetic regulation of cell growth and differentiation in normal and malignant tissue. Submit curriculum vitae and the names of three references to: **Mike Clarke, University of Michigan Medical School, 1500 East Medical Center Drive, 4-310, CCGC, Box 0936, Ann Arbor, MI 48109-0936. FAX: 734-763-4226.** An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

Postdoctoral position in Department of Pharmacology/Tulane Cancer Center available immediately for study of oxygen-regulated gene expression. Ph.D. required, graduate training in molecular biology is essential. Excellent salary and benefits. Send curriculum vitae to: **Dr. Barbara Beckman, FAX: (504) 588-5283; e-mail: bbeckman@tmcop.tmc.tulane.edu.**

POSITIONS OPEN

ENVIRONMENTAL HEALTH SCIENTIST EPIDEMIOLOGIST

The National Center for Environmental Assessment-Cincinnati (NCEA-CIN) of the U.S. Environmental Protection Agency is seeking candidates for an Environmental Health Scientist (Epidemiologist) position, GS-12/13 (\$48,995 to \$75,741 per year, based on qualifications) located in Cincinnati, Ohio. The principal duties are to serve as a scientific leader and interdisciplinary team member for research in environmental epidemiology; prepare evaluations of complex technical issues for risk assessment; apply epidemiological methods for estimating effects in humans; contribute to the development of epidemiological methods for health risk assessments; and provide technical assistance on the application and utilization of epidemiologic data and information.

The applicant must have a Ph.D. or equivalent degree with a major field of study related to the health sciences appropriate to the work of the position and one year of specialized experience in epidemiology research.

Please submit a résumé, transcripts, SF-171 or OF-612 (current and former Federal employees must submit a copy of their last SF-50) by May 14, 1999, to: **Jessie Hopkins, U.S. EPA, (Mail Code 3653) 401 M Street S.W., Washington, DC 20460. Telephone: 202-260-2965.** EPA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AT BOSTON UNIVERSITY GENE EXPRESSION DYNAMICS

Available immediately to develop gene networks capable of precisely controlling the temporal expression of therapeutic genes in gene therapy applications. Applicant will work with Molecular Biologists, Physicists, Mathematicians, and Biomedical Engineers in the Center for BioDynamics and the Center for Advanced Biotechnology to design, build, and analyze the gene networks. Applicants must have a Ph.D. or M.D. and be experienced in eukaryotic cell culture and transfection, microscopy, and standard recombinant DNA techniques. Experience with viral-, liposome-, or receptor-mediated gene transfer techniques is also desirable.

Position available for one to three years. Applicants should send a brief statement of past and current research interests, a curriculum vitae, and names of three references to: **Dr. J. J. Collins, Boston University, 44 Cunningham Street, Boston, MA 02215. E-mail: abl@bu.edu.**

POSTDOCTORAL ASSOCIATE. Position available for Biochemist or Organic Chemist in a diverse laboratory to study the effect of ultrasound on organic molecules. Requires a Ph.D. in biochemistry, chemistry, biotechnology, biophysics, or related field. Extensive experience in one or more of the following areas is desirable: mass spectroscopy, HPLC, or peptide purification. Position especially suited for an individual with a strong background in quantitative biochemistry and technology development. Send curriculum vitae, letter of interest, and names of three references to: **Dr. David Soll, Department of Biological Sciences, University of Iowa, 138 Biology Building, Iowa City, IA 52242-1324.** The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST POSITIONS MOLECULAR BASIS OF CANCER

Positions available to join research group cloning and characterizing novel genes mediating tumorigenesis, cancer progression and suppression, apoptosis, and cell differentiation. Training in molecular biology, emphasizing gene cloning, transgenic mice, protein analysis, and purification or protein-protein interactions. Send curriculum vitae and three references to: **Dr. P. B. Fisher, Columbia University, College of Physicians and Surgeons, BB 15-1501, 630 West 168th Street, New York, NY 10032. FAX: 212-305-8177; e-mail: pbf1@columbia.edu.** An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FOUR MOLECULAR ONCOLOGY RESEARCH POSITIONS IN EXPERIMENTAL PATHOLOGY

A division of experimental pathology is being created to enhance translational research in the Pathology Department of the University of Tennessee Medical Center. Four (4) M.D. or M.D.-Ph.D. Pathologists who are Board-certified or Board-eligible in anatomic and/or clinical pathology are being recruited for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** appointments. Candidates with research interest in molecular oncology are encouraged to apply. Preference will be given to those candidates with interests in one of the following fields: (1) signal transduction in growth regulation/apoptosis/differentiation, (2) functional genomics, or (3) tumor angiogenesis and invasion. Candidates should have a strong publication record and the ability to attract extramural funding. In addition to a primary role in research and teaching, candidates will be expected to contribute to the clinical service responsibilities of the department. Interested applicants should submit a curriculum vitae, statement of research and clinical interests, and three letters of recommendation to: **Dr. Lawrence Pfeffer, Co-Chair, Search Committee, Professor and Director of the Graduate Program in Pathology, The University of Tennessee, Memphis, Room 576-BMH Main, 899 Madison Avenue, Memphis, TN 38163.** The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

Available immediately: several **POSTDOCTORAL OPENINGS** in the Liver Study Unit, University of Nebraska Medical Center (UNMC) and the Omaha Veterans Administration Medical Center (OVAMC). The general area of interest is the determination of and mechanisms involved in toxic effects of alcohol on cellular systems, especially in the liver. Positions are through NIH and/or VA Merit Awards and funding is for a minimum of two to three years (initial one-year appointment); reappointments on a yearly basis. If interested send curriculum vitae to: **Carol A. Casey, Ph.D. (alcohol and endocytosis) or Tom Jerrells, Ph.D. (alcohol and immunity to infectious agents and immunopathology) or Terrence M. Donohue, Ph.D. (alcohol and protein degradation) or Geoffrey Thiele, Ph.D. (immune responses to aldehyde-modified proteins), c/o Liver Study Unit, Omaha Veterans Administration Medical Center (151), 4101 Woolworth Avenue, Omaha, NE 68105.** UNMC/OVAMC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Not an H-1 or J-1 opportunity.

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Position available to study signal transduction pathways and developmental mechanisms associated with genes responsible for human neurodegenerative diseases. Projects focus on molecular mechanisms of neuronal apoptosis and the role of the presenilin genes in Notch and Wnt signaling. For reference see: *Nature* 395:698, 1998; *JBC* 272:14505, 1997; *Neuron* 16:921, 1996; *Nature* 378:776, 1995. Experience in molecular and cell biology is required. Send curriculum vitae, a brief description of research experience, and names of three references to: **Dr. Bruce Yankner, Children's Hospital, Enders 260, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-738-1542.** Equal Opportunity Employer.

A POSTDOCTORAL POSITION in organic synthesis is available. Candidates with a Ph.D. degree either in synthetic organic or medicinal chemistry are solicited to join a research team to develop imaging agents for central nervous system dopamine and serotonin receptors, and amyloid aggregates in Alzheimer's disease. Major emphasis will be in organic and inorganic synthesis of novel compounds. Send résumé to: **Dr. Hank F. Kung, Room 305, 37000 Market Street, Departments of Pharmacology and Radiology, University of Pennsylvania, Philadelphia, PA 19104. E-mail: kunghf@sunmac.spect.upenn.edu; website: <http://sunmac.spect.upenn.edu/>.**



Section Head, Urogenitals

Sandwich, Kent

Pfizer is a research based global health care company committed to the discovery and development of new medicines. The company employs 47,000 people world-wide, of whom about 3,500 are based in the UK. The Sandwich site contains 1,700 research and development staff, whose track record in the fight against disease makes them one of the best drug discovery teams in the world.

Recent product launches have established Pfizer's position as a leader in the Urogenitals field. Current activities include research to identify novel therapeutic targets for the treatment of incontinence and benign prostatic hyperplasia.

Pfizer now wishes to strengthen the team by recruiting an experienced scientist, ideally but not necessarily from a urogenitals background. Other smooth muscle experience

could also be relevant. A good first degree and PhD in Biology or Pharmacology should ideally be followed by one or more post-docs and then a career in the pharmaceutical industry. Evidence of successful drug discovery, creativity, leadership and commercial awareness are all important characteristics, along with the ability to communicate widely and at a senior level.

Leading a team of around 12-15, the successful candidate will focus in particular on urology and will have the opportunity to inherit ongoing and initiate new projects in a climate of professionalism, urgency and the highest scientific standards.

Please send a full CV in confidence to GKR at the address below, quoting reference 99016J on both letter and envelope, and including details of current remuneration.



Queensberry House, 3 Old Burlington Street,
London W1X 1LA.
Tel: 0171 534 0097. Fax: 0171 534 0001.
E-mail: kwilliams@gkrgroup.com



UNIVERSITY COLLEGE LONDON
Biochemical Engineering

Lecturer in Biocatalyst Engineering

The Department of Biochemical Engineering wishes to appoint a new faculty member to further develop its activities in the molecular aspects of biocatalyst engineering. The successful candidate will be expected to demonstrate research leadership and collaborate closely with other staff members involved in the design of whole processes for the manufacture of complex pharmaceutical intermediates and recombinant secondary metabolites. Candidates should have demonstrated research experience in enzyme engineering, such as directed evolution, directed mutagenesis etc., and be interested in applying these towards real process outcomes.

The Department, the first in the UK and a founding laboratory of the field, is an international centre and part of one of the UK's top four research universities. A recent £20M investment in new facilities, equipment and instruments and a long tradition of interdisciplinarity provides a powerful research and advanced training base. The Department teaches at the undergraduate, postgraduate and post-experience levels and takes great pride in producing both the world's future bioprocess leaders and advanced bioprocess engineering research.

Applications with a full CV should be sent to Professor Michael Hoare, Head of Department, The Department of Biochemical Engineering, University College London, Torrington Place, London WC1E 7JE, UK (Email: m.hoare@ucl.ac.uk).

Deadline for applications 1st July. Further information about the Department can be found on our web site (www.biochemeng.ucl.ac.uk).

Working Toward Equal Opportunity

The Queen's University of Belfast Post Doctoral Research Fellow

(Ref: 99/F362A)

School of Medicine

Department of Clinical Medicine/Department
of Haematology

This post, funded by the Northern Ireland Leukaemia Research Fund, is available initially for three years, with a possible extension for a further 2 years, to conduct research on the role of homeobox genes in haematopoiesis and leukaemogenesis.

Applicants must have at least a second class honours degree or equivalent in Biochemistry, Biology or a closely-related discipline together with a PhD obtained (or about to be obtained) in Biochemistry, Molecular Biology, Developmental Biology or a closely-related discipline. Candidates should also have at least three years' experience of molecular biological techniques, at least one year's experience in the study of gene expression and an appropriate publication record. Experience in tissue culture methods, homeobox gene research, undergraduate/postgraduate teaching, participation in successful grant applications and competence in the understanding and use of computers are desirable.

For further information contact Dr. Cliona McHale, Haematology Research Group, The Queen's University, Belfast Tel: (44) 01232 329241 ext. 2013; e-mail: c.mchale@qub.ac.uk

Salary: £15,735 - £20,107 per annum starting salary dependent on age, qualifications and experience

Closing Date: 7 May 1999.

It is intended that interviews will take place on 4 June 1999.

Applicants, quoting 99/F362A, may obtain further particulars from the Personnel Office, The Queen's University of Belfast, Northern Ireland, BT7 1NN, by telephoning (01232) 273044 or (01232) 273854 (answering machine) or Fax: (01232) 324944 or e-mail on personnel@qub.ac.uk.

Committed to an Equal Opportunities policy and selection on merit, the University welcomes applications from all sections of the community.

POSITIONS OPEN

POSTDOCTORAL POSITIONS PROKARYOTE MOLECULAR GENETICS AND BIOCHEMISTRY

Archer Daniels Midland Co. (ADM), the world's largest agriprocessing company, has two immediate openings for Research Postdoctorates. Candidates should be self-starters having a record of successful problem solving in the fields of prokaryote molecular genetics or biochemistry. An understanding of microbial physiology would be relevant for both positions. The Molecular Geneticist will develop transformation systems, shuttle vectors, and gene expression systems for a novel industrial microorganism. Experience in protein purification and enzyme assay would be beneficial but is not crucial. The Biochemist will develop and apply strategies for analysis of metabolic pathways, most likely involving enzymology, protein purification, and measurement of intracellular metabolites.

ADM operates a modern, well-equipped research facility near its corporate headquarters in Decatur, Illinois.

Archer Daniels Midland offers a complete benefit package including pension, ESOP, health, dental, and life insurance.

Applications should submit their cover letter, a résumé, at least two references, and availability date to:

Sheila Witts-Mannweiler
Archer Daniels Midland Co.
Director—Corporate Personnel
P.O. Box 1470
Decatur, IL 62525

ADM is an Equal Opportunity Employer.

The National Eye Institute, National Institutes of Health, has **POSTDOCTORAL POSITIONS** available for the study of cataract. Candidates should have background in molecular biology/biochemistry and must be U.S. citizens or permanent residents with less than five years of postdoctoral experience. Starting salary ranges from \$25,000 to \$38,000 per year depending upon experience. Paid health benefits and a generous travel allowance are included. One position is for the study of cataracts and gene expression using molecular biology approaches; the second will focus on signal transduction pathways in the normal and cataractous lens. For the first position send curriculum vitae, bibliography, and names of three references to: **Dr. Deborah Carper, Laboratory of Mechanisms of Ocular Diseases, NIH, NEI, 6 Center Drive, MSC-2735, Bethesda, MD 20892-2735. Telephone: 301-496-2144; FAX: 301-496-1759; e-mail: debbie@helix.nih.gov.** For the second position direct the same information to: **Dr. Sam Zigler, Laboratory of Mechanisms of Ocular Diseases, NIH, NEI, 6 Center Drive, MSC-2735, Bethesda, MD 20892-2735. Telephone: 301-496-6669; FAX: 301-496-1759; e-mail: szigler@intrac.nei.nih.gov.**

NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS DIABETES/OBESITY RESEARCH

Applications are invited for two Postdoctoral positions available beginning on or about July 1, 1999. The projects are aimed at (1) identifying the cellular mechanisms of insulin resistance in diet-induced obesity, (2) defining the role of leptin in maintaining metabolic homeostasis, and (3) understanding the role of peripheral leptin receptors in determining whole-body leptin action. We are particularly interested in identifying individuals who are willing to apply or are currently applying the tools of gene therapy, molecular biology, or biochemistry to understanding the pathophysiology of diabetes/obesity. Further details of these positions are available upon application. Interested applicants should submit (preferably by FAX) their curriculum vitae, three letters of recommendation, and a short (less than one page) statement of research interests to: **Robert M. O'Doherty, Ph.D., Division of Endocrinology and Metabolism, University of Pittsburgh, E1140 Biomedical Science Tower, 200 Lothrop Street, Pittsburgh, PA 15261. FAX: 412-648-3290.**

POSITIONS OPEN

THE UNIVERSITY OF VERMONT COLLEGE OF MEDICINE DEPARTMENT OF NEUROLOGY

Two positions are available immediately in the Department of Neurology at the University of Vermont College of Medicine. Support is provided for research on the mechanisms underlying changes in lower urinary tract function following chronic spinal cord injury or bladder inflammation. The roles of neurotrophic factors/cytokines following injury are investigated. (1) **POSTDOCTORAL FELLOWSHIP.** Applicants should be trained in molecular neurobiology techniques with experience in the synthesis of riboprobes. Experience with RNase protection assays and publications involving *in situ* hybridization techniques are highly desired. (2) **RESEARCH ASSOCIATE.** Applicants should be trained in electrophysiological techniques with experience in whole-cell patch clamp recording. Studies will focus on determining electrical properties of urinary bladder afferent neurons following bladder dysfunction. Funding is available for each position for two years. Applicants must have strong motivation and excellent communication skills. Applicants should send a curriculum vitae and bibliography, names and addresses of three references to: **Margaret A. Vizzard, Ph.D., University of Vermont, Department of Neurology, E219 Given, Burlington, VT 05405. Telephone: 802-656-3209; e-mail: mvizzard@zoo.uvm.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE PLANT/MICROBIAL PHYSIOLOGIST

The United States Department of Agriculture, Agricultural Research Service, Southern Regional Research Center, New Orleans, Louisiana, is accepting applications for a Plant/Microbial Physiology Postdoctoral position. Announcement No: RA-99-30H for a Plant/Microbial Physiologist or related discipline (salary range \$39,960 to \$47,891). The individual will conduct research on the role phosphorus containing compounds from agricultural runoff have on the development of Harmful Algal Blooms (HAB). Determine the effect phytic acid and inositol phosphates have on these HAB. Candidates must have a knowledge of nutritional biochemistry as it relates to aquatic microbes, Ph.D. in plant physiology or related field. Specific questions regarding the position may be directed to: **Dr. Edward J. Mullane, Telephone: 504-286-4364. Qualification requirements listed on ARS website: <http://www.ars.usda.gov>. ARS is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study the role of the *S. cerevisiae* mismatch repair system in repair and recombination. The work will involve a variety of both genetic and molecular techniques to better understand how the mismatch repair system functions in repair, mutation avoidance, and in preventing recombination between nonidentical sequences. Applicants should have a strong background in molecular techniques. Previous experience with yeast is desired, but not essential. The laboratory is located at Emory University in Atlanta, Georgia. Emory is a rapidly expanding and dynamic university with multiple resources in the biological and biomedical sciences. Please send curriculum vitae and names of three references to: **Gray F. Crouse, Department of Biology, Emory University, Atlanta, GA 30322. E-mail: gcrouse@biology.emory.edu.**

Emory University is an Affirmative Action/Equal Opportunity Employer.

NEUROPHYSIOLOGIST

POSTDOCTORAL POSITION is available immediately for a Neurophysiologist to study the role of mossy fiber synaptic reorganization in epilepsy with use of whole cell patch clamp recordings. Some experience with cellular electrophysiological techniques is highly desirable. Send a curriculum vitae and names of three references to: **Dr. J. Victor Nadler, Department of Pharmacology and Cancer Biology, Box 3813, Duke University Medical Center, Durham, NC 27710. E-mail: nadle002@acpub.duke.edu. Duke University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOW POSITION. The Department of Pharmaceutical Sciences invites applications for a Ph.D. to study G-protein-mediated signal transduction mechanisms in the pancreatic islets in relation to insulin secretion. Experience in cell biology and molecular biology techniques is preferred. Interested candidates should forward curriculum vitae and names of three references to: **Prof. Anjan Kowluru, Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, 619 Shaper Hall, Detroit, MI 48201.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL POSITIONS MACROMOLECULAR BIOPHYSICS

Two positions are available in a laboratory working on macromolecular biophysics, primarily using atomic force microscopy (AFM) **website: hohlab.bs.jhmi.edu.** We seek one individual with a physics or engineering background and one with a background in biochemistry, biophysics, or physical chemistry. Please send a curriculum vitae and names of three references to: **Dr. Jan Hoh, Department of Physiology, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. E-mail: jhoh@jhmi.edu. Affirmative Action/Equal Opportunity Employer/Disabled/Veterans.**

POSTDOCTORAL POSITIONS available for studies of nuclear receptors/coactivators/corepressors in cancer biology and embryonic development. Experimental systems include primary tumors, embryonic stem cell cultures, and transgenic mice. Ph.D. graduate training in molecular biology, biochemistry, or mouse embryology is desirable. Send curriculum vitae and names of three references to: **Dr. Li-Na Wei, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 435 Delaware Street S.E., Minneapolis, MN 55455. E-mail: weix009@maroon.tc.umn.edu; FAX: 612-625-8408. The University of Minnesota is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITION

Available immediately for electrophysiology on cyclic nucleotide-activated channels. Our research is focused on understanding the structure-function relationship of these channels. Please send curriculum vitae, research statement, and three references to: **Jacqueline Tanaka, 327 Levy Building, Department of Pathology, School of Dental Medicine, 4010 Locust Street, University of Pennsylvania, Philadelphia, PA 19104-6002. Website: <http://athens.dental.upenn.edu/tanaka>.**

POSTDOCTORAL FELLOW

Postdoctoral Fellow position is available at Harvard Medical School/Brigham and Women's Hospital to study the role of cysteine proteases in MHC class II antigen presentation and immunity. Experience in molecular biology and immunology preferred. Send curriculum vitae to: **Dr. Harold Chapman, Pulmonary and Critical Care, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-732-7421. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS in molecular and cellular immunology immediately available to study mucosal cellular immunity, pathogenesis of IBD, and to develop vaccines against HIV and HPV. Cellular immunology background is required and molecular biology experience is also preferred. Interested candidates should send applications to: **Dr. Liang Qiao, Department of Microbiology and Immunology, Loyola University Chicago (Medical Center), 2160 South First Avenue, Maywood, IL 60153. E-mail: lqiao@luc.edu; FAX: 1-708-216-1196.**



VICE PRESIDENT FOR RESEARCH THE OHIO STATE UNIVERSITY

The Ohio State University invites nominations and applications for the position of Vice President for Research. The University seeks an individual with strong leadership skills who will develop and pursue innovative strategies to enhance both core discipline and interdisciplinary research activity as well as public-private partnerships. Candidates should have a record of outstanding achievement in research, demonstrated administrative ability, a commitment to education through research, and experience in grant and contract activities with governmental agencies, private foundations, and industry. Candidates should understand the role of university research in formulating national research strategies and appreciate the comprehensive scope and mission of a large, land grant institution. In addition to its 19 colleges which include more than 100 departments and schools, The Ohio State University is comprised of a Graduate School and one of the nation's largest and most comprehensive academic medical centers.

The University has begun development of a Science and Technology Campus, implementation of an aggressive new research plan, and elaboration of a strategic investment plan to raise the University to the highest rank of American research institutions. The OSU Research Foundation, responsible for sponsored program administration, reports to the Vice President for Research. The University's sponsored research exceeds \$200 million, with a steadily growing market share in the past few years. The Vice President for Research heads the Office of Research and administers its substantial discretionary funds to support research infrastructure, to provide seed funding for early career investigators, and to stimulate research in emerging interdisciplinary areas. The Vice President reports to the Executive Vice President and Provost and works closely with the Dean of the Graduate School and Deans of the various colleges to stimulate, facilitate, and enhance research and scholarship at the University. The Vice President for Research serves on the President's Planning Cabinet and is Vice Chair of the University Coordinating Council.

To assure full consideration, applications and nominations should be received by June 15, 1999. The Search Committee will begin screening dossiers on that date and will continue to review applications until the Vice President is selected.

Applications and nominations should be addressed to:

**Terry A. Miller, Ohio Eminent
Scholar, Professor of Chemistry
Chair, Search Committee for Vice
President for Research
Office of Academic Affairs
203 Bricker Hall
190 North Oval Mall
Columbus, OH 43210-1358**

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.

For further information please visit our Web Sites:
[http://www.admin.ohio-state.edu/OAA/VPSearch/
Index.htm](http://www.admin.ohio-state.edu/OAA/VPSearch/Index.htm) or <http://www.osu.edu>

Deputy Director, National Centers for Coastal Ocean Science

**(A Senior Executive Service Position in the Federal Government)
Vacancy Announcement NOAA #99-02**

**Department of Commerce (DOC)
National Oceanic and Atmospheric Administration (NOAA)
National Ocean Service (NOS)
National Centers for Coastal Ocean Science (NCCOS)
Silver Spring, Maryland
\$110,351 - 125,900 annually**

The incumbent is responsible for the management of the National Centers for Coastal Ocean Science and must possess the following in order to qualify:

1. Broad background in oceanography, physical, chemical, biological, ecological, geodesy, cartography, and/or related environmental sciences with demonstrated experience in development of research programs/studies.
2. Experience in planning, organizing and coordinating research programs, with particular emphasis on science for resource and coastal management/operations. The scope of experience should demonstrate the scientific insight to recognize opportunities for advancing the science through development of state-of-the-art, and application of innovative uses of technologies.
3. Broad experience in the direction of multi-disciplinary programs to manage Great Lakes, coastal and/or ocean resources, that demonstrates the analytical ability involved in administration of conservation management programs.
4. Demonstrated ability to review critically complex regulations, legislation and related documents with respect to their scientific, technical, economic and/or policy implications.
5. Ability to perform senior level research and/or recognized professional standing in the scientific community, with particular emphasis on environmental sciences, as evidenced by publications, presentations, membership and/or offices held in professional societies.

**Please contact Dede Epstein at 301/713-4477, x144 (301/713-0974[TDD])
for an announcement package
(Internet: address: dede.epstein@hrmo.noaa.gov),
including mailing instructions—referring to the announcement number
-OR- you may access the entire full-text vacancy from
NOAA's Executive Resources Homepage (see below).
Incomplete applications will be returned.**

<http://www.rdc.noaa.gov/~hrmo/er-home.htm>

This vacancy will close on May 10, 1999.

**"NOAA Values a Diverse Workforce and
is an Equal Opportunity Employer"**



POSITIONS OPEN

PREDOCTORAL and POSTDOCTORAL POSITIONS on an NIH-funded Interdisciplinary Training Grant are available to individuals interested in intracellular signaling, gene transcription, mitogenesis, lipid metabolism, and several other biological processes involved in a variety of cardiovascular diseases. Candidates will have the opportunity to work in the laboratory of one of the 13 Preceptors in the Departments of Biochemistry, Medicine, Pharmacology, and Physiology and Biophysics. Visit our website: <http://www.utmem.edu/pharmacology/training.html> for each Preceptor's research interest. *Applicants must be U.S. citizens or permanent residents.* Postdoctoral candidates must have a M.D. and/or Ph.D. degree in one of the biological sciences. Send résumé with names of three references to: **Dr. Tarun B. Patel, Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. FAX: 901-448-7300. UT is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Minorities and women are especially encouraged to apply.**

POSTDOCTORAL POSITION to study the regulation and mechanism of action of GTPase-activating proteins (GAPs) for heterotrimeric G proteins, including RGS proteins and related effector enzymes. Potential projects include regulation of GAP activity, interactions of GAPs and G α subunits with other signaling proteins, effects of GAPs on GDP/GTP exchange, and mechanism of GAP activity. Candidates should have a Ph.D. degree and research experience in either biochemistry or molecular genetics relevant to this area. Please send curriculum vitae, brief statement of research background and interests, and names of two to three referees to: **Elliott M. Ross, Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. E-mail: ross@utsw.swmed.edu. University of Texas Southwestern is an Equal Opportunity Institution.**

POSTDOCTORAL POSITION G PROTEIN SIGNALING

A Postdoctoral position is available immediately to study the regulation and actions of G proteins and G protein-coupled receptors in relation to gene expression. Projects will employ immunological and molecular biological techniques, including microinjection, cloning, site-directed mutagenesis, and DNA and protein expression analysis. A recent Ph.D. with training in basic molecular biological techniques is required. Please submit a curriculum vitae, including names and addresses of three references, to: **Dr. David R. Manning, Department of Pharmacology, University of Pennsylvania School of Medicine, 3620 Hamilton Walk, Philadelphia, PA 19104-6084. E-mail: manning@pharm.med.upenn.edu.**

POSTDOCTORAL POSITION available immediately to study the interaction of human papillomavirus proteins with cellular pathways mediating growth control. Experience in molecular/cellular biology with emphasis on signal transduction, cell cycle, or apoptotic pathways preferred. Send curriculum vitae, research experience, and three letters of reference to: **Ann Roman, Ph.D., Medical Sciences Building Room 244, Department of Microbiology and Immunology, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202-5120. E-mail: aroman@iupui.edu; FAX: 317-274-4090.**

A **POSTDOCTORAL RESEARCH POSITION** is available to investigate the natural toxin-induced cell signaling alterations. Experience in cellular and molecular biology desirable. For more information see website: www.vet.uga.edu/vph/ or submit résumé with recent publications and arrange to submit three letters of reference by June 15, 1999, to: **R. P. Sharma, Professor, College of Veterinary Medicine, The University of Georgia, Athens, GA 30602-7389.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

The Laboratory of Molecular Microbiology seeks a Postdoctoral Fellow (M.D.-D.V.M. and/or Ph.D.) with a strong background in cell biology, molecular virology, or molecular pathology who has a particular interest in AIDS pathogenesis. Our laboratory utilizes simian immunodeficiency virus (SIV) infection of monkeys as a model for human AIDS for the development of vaccines and the study of pathogenesis. The focus of our pathogenesis studies are the delineation of viral and host factors responsible for variable disease outcome following SIV-infection with a particular interest in the study of the mechanisms for the lack of disease observed in SIV-infected natural host species. The successful candidate would study the dynamics of infection and immune responses in experimental SIVagm-infection of macaque monkeys (an AIDS model) and African green monkeys using a variety of tissue culture techniques, viral load assays, immunohistochemistry, *in situ* hybridization, and cellular immunology. The applicant should have some prior experience in dealing with animal models as well as expertise in molecular retrovirology.

The position is available immediately for a duration of two to five years. Starting salary is dependent on qualifications.

Applicants are requested to submit a curriculum vitae and three letters of reference to: **Dr. Vanessa Hirsch, Laboratory of Molecular Microbiology, NIAID Twinbrook II Facility, 12441 Parklawn Drive, Rockville, MD 20852 USA. Telephone: 301-496-2976.**

NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS JOHNS HOPKINS MEDICAL INSTITUTIONS

Postdoctoral positions are available for the study of the molecular mechanisms of Parkinson's disease and other neurodegenerative disorders. Molecular investigations include transgenic and gene-targeted mouse models, yeast 2-hybrid screening, free radicals, nitric oxide, α -synuclein, Parkin, PARP and PARG biology, and gene expression profiling.

For inquiries, please send curriculum vitae and three letters of reference to: **Ted M. Dawson, M.D., Ph.D., Department of Neurology, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Carnegie 214, Baltimore, MD 21287. Telephone: 410-614-3359; FAX: 410-614-9568; e-mail: aschmid@jhmi.edu.**

JHMI is an Equal Opportunity/Affirmative Action Employer.

Two **POSTDOCTORAL POSITIONS** available immediately. The first position will study the mechanisms of sexual transmission of HIV. Emphasis is on the role of reproductive tract epithelia and cell trafficking in HIV transmission. Ph.D. in virology or related field required. The second position will work on developing a topical microbicide to protect people from infection by HIV and other sexually transmitted infections. Work for the second position will involve primarily synthesizing, purifying, and identifying sulfated polysaccharides. Ph.D. in chemistry or related field required. For either position, send curriculum vitae, names and addresses of three references, and letter of interest to: **Dr. David Phillips, Population Council, 1230 York Avenue, Box 273, New York, NY 10021. Telephone: 212-327-8744; FAX: 212-327-7678; e-mail: dphillips@popcouncil.org.**

POSTDOCTORAL POSITION to study genetic engineering of the mammary gland for mastitis resistance. Background in dairy science preferred with strengths in micro- and molecular biology. Send a description of research interests, curriculum vitae, and names of three references to: **Dr. D. E. Kerr, 210 Terrill Hall, Department of Animal Sciences, University of Vermont, Burlington, VT 05445. E-mail: dkerr@zoo.uvm.edu. Equal Opportunity Employer.**

POSITIONS OPEN

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

The USDA, ARS, National Animal Disease Center, Ames, Iowa is accepting applications for a full-time, **POSTDOCTORAL MICROBIOLOGIST** position in the Metabolic Diseases and Immunology Research Unit. The individual selected will investigate the metabolism of plant toxins and ecology of microorganisms in the digestive tract of ruminants as related to food safety and animal health. A Ph.D. is required and should have been awarded within the last four years. Knowledge of anaerobic microbiology, microbial physiology, molecular biology, or natural products chemistry is required. This Excepted Service appointment is for two years with a salary range of \$39,960 to \$51,946 per year and includes benefits. *U.S. citizenship is required unless the candidate is a citizen of a country that has a defense treaty with the United States.* Send a curriculum vitae and names of three references to: **Dr. Mark Rasmussen, USDA, ARS, National Animal Disease Center, P.O. Box 70, Ames, IA 50010. Telephone: 515-663-7350; e-mail: mrasmus@nadc.ars.usda.gov. Applications will be accepted until position is filled. The USDA is an Equal Opportunity Provider and Employer.**

Training Program in sleep, circadian, and respiratory neurobiology at Brigham and Women's Hospital/Harvard Medical School. **PREDOCTORAL and POSTDOCTORAL POSITIONS** are available at Brigham and Women's Hospital/Harvard Medical School on a training grant sponsored by the NHLBI's National Center for Sleep Disorders Research. Request application and brochure from: **Charles A. Czeisler, Ph.D., M.D., Program Director, Circadian, Neuroendocrine, and Sleep Disorders Section, Brigham and Women's Hospital, Harvard Medical School, 221 Longwood Avenue, Boston, MA 02115, Attn: Training Grant—YJG. E-mail: yjgilreath@gcrc.bwh.harvard.edu; FAX: 617-975-0809; Telephone: 617-732-5778. Application deadlines are October 15, 1999, February 15, 2000, April 15, 2000. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Funding is limited to U.S. citizens or permanent residents.**

POSTDOCTORAL POSITIONS NEW YORK UNIVERSITY MEDICAL CENTER Division of Immunology

Available immediately to join research group studying mechanisms of complement inhibition and the role of complement in inflammation and in tumorigenesis. Experience in molecular biological techniques required. Experience with recombinant antibody technology a plus. Send curriculum vitae and names of three referees to: **Dr. Stephen Tomlinson, New York University School of Medicine, Department of Pathology, 550 First Avenue, New York, NY 10016. E-mail: tomlis01@popmail.med.nyu.edu.**

POSTDOCTORAL POSITIONS in integrative research program to study cell signaling and mechanisms regulating myosin II phosphorylation and contraction of actin-based cytoskeleton. Projects involve aspects of cell biology, protein biochemistry, gene regulation, and knockout (conventional and conditional) mice. Send curriculum vitae and names of three references to: **Dr. James Stull, Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX 75235-9040. E-mail: jstull@mednet.swmed.edu. Equal Opportunity Employer.**

Great Lakes. **POSTDOCTORAL POSITIONS** available to study the function of newly cloned lipid kinase in insulin action (see: *MCB* 19:623, 1999; *Biochemical J.* 239:1999; *Biochemistry* 36:6564, 1997; *EJCB* 69:143, 1995; *JBC* 269:23865, 1994; *MCB* 14:3459, 1994; *Endocrinology* 134:507, 1994; *JBC* 268:6463, 1993). Respond to: **Assia Shisheva, Ph.D., Department of Physiology, Wayne State University, Detroit, MI 48201. FAX: 313-577-5494; e-mail: ashishev@med.wayne.edu.**

ASSISTANT DIRECTOR & SCIENTIFIC EDITORS SCIENTIFIC COMMUNICATIONS

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■ A strong scientific/medical background, a PhD, MD or PharmD in a scientific/medical discipline, plus a minimum of five years experience in a related scientific/medical/pharmaceutical area required. A minimum of four years of experience must include medical writing. Demonstrated ability to interpret and present scientific and clinical trial data, and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self-starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals.

SCIENTIFIC EDITORS

■ You will support the Associate and Assistant Directors by writing and editing scientific articles, poster and slide presentations for national conferences, and continuing education programs. You will perform literature searches, track project development, revise publications based on critical review, be responsible for compliance with criteria for creating continuing education programs for physicians and pharmacists, and interface with medical publishers and opinion leaders.

■ Requires a strong scientific background, a PhD or PharmD in a scientific/medical discipline, plus a minimum of three years experience in a related scientific/medical/pharmaceutical area, at least two of which must include medical publishing; or a Masters degree plus a minimum of five years experience in a related scientific/medical/pharmaceutical area, at least two years in medical publishing; or equivalent education and experience. Requires an excellent ability to interpret scientific and clinical trial data, strong scientific writing ability, editorial skills, and excellent interpersonal skills. Must be independent, creative and able to handle a variety of projects simultaneously.

■ Please SEND/FAX your resume including salary history to: **Bayer Corporation, Pharmaceutical Division, Dept. DM-C28-AB, 400 Morgan Lane, West Haven, CT 06516. FAX: (203) 812-6798.** No agencies or phone calls please. For more information on Bayer, search: <http://www.bayerpharmacia.com>

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Research Associates in Formulation and Stability

Participate in the development of stable formulations, execution of stability studies, and development of analytical methods. A BS/MS degree in pharmaceuticals, biochemistry, chemistry or biology and one or more years of relevant laboratory experience in formulation and analytical method development, particularly using HPLC and electrophoresis, are required. **Respond to Job Code: DD666**

Research Associates in Pharmacokinetics

Participate in conducting preclinical PK and ADME studies, in support of development of compounds as potential therapeutics. Applicants must possess a BS/MS degree in toxicology, biochemistry, pharmacology, biology or related sciences. Experience in any one or more of these techniques: HPLC, ELISA, RIA, and Gel - Electrophoresis techniques is required. Knowledge in in-vivo techniques, including dosing (IV, IM, SC, PO) and PK analyses is desirable. **Respond to Job Code: REN 222**

Research Associate in Immunoassay Development

Participate in development and validation of immunoassays and cell based assays. This position requires a BS/MS degree with two or more years of experience in development, optimization and validation of immunoassays and cell based assays in a biotech, pharmaceutical or clinical lab environment. Writing standard operating procedures and ability to organize and perform immunoassays on samples from clinical trials are required. **Respond to Job Code: MUR 444**

Scientist in Pharmacology

Participate in the development of in-vivo models of disease, set up analytical assays, and evaluation of drug candidates. Experience in in-vivo work and training in biochemical and analytical assay development (ELISA, RIA, HPLC, electrophoresis) are required. Applicant should have a Ph.D. degree with at least two years post-doctoral training in relevant fields, especially obesity, diabetes, asthma, and inflammation. **Respond to Job Code: VW / SCI 4/16**

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POSITIONS OPEN

RESEARCH POSITIONS CENTER FOR NEUROVIROLOGY AND NEUROONCOLOGY

Several **POSTDOCTORAL POSITIONS** are immediately available for candidates with an interest in studying (1) the molecular biology and pathogenesis of HIV-1 in brain, and molecular therapeutic strategies toward neurological diseases in AIDS; and (2) gene expression in brain with an emphasis on demyelinating diseases, and the development of gene and cellular therapeutic approaches toward treatment of demyelinating diseases. A Ph.D. or comparable professional degree with experience in cellular and molecular biology is required. Please send curriculum vitae, summary of research interests, and the names of three references to:

Kamel Khalili, Ph.D.

c/o Dottie Bathe, Administrative Assistant
Center for NeuroVirology and NeuroOncology
Broad and Vine Streets, MS #406
Philadelphia, PA 19102-1192
E-mail: dorthy.bathe@drexel.edu

POSTDOCTORAL POSITION NEUROBIOLOGY OF INSECT LOCOMOTION/ROBOTICS

A unique opportunity for a Neurobiologist or Engineer with an interest in neuroscience. Our project is studying sensory feedback in insect walking to provide data for the construction and control of autonomous legged robots. The current phase of the project utilizes high-speed 3-D video imaging to record the kinematics of leg movement while extracellular recordings are taken from sensory nerves/muscles in freely walking insects. The position is available immediately. Please send a letter of interest, curriculum vitae, e-mail address, and the names of three references to: **Dr. Sasha Zill, Department of Anatomy, Cell and Neurobiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704. Telephone: 304-696-7384; FAX: 304-696-7290; e-mail: sensillum@aol.com. Women and minorities are strongly encouraged to apply.**

POSTDOCTORAL POSITION. Autoimmunity/neuroimmunology. Johns Hopkins University. Funded Postdoctoral position for three years to study exciting new strategies of antigen-specific immunotherapy for model autoimmune diseases. Projects involve specific therapy of experimental myasthenia gravis in animals and cell culture systems, using gene transfer, transgenic mice, stem cell-based therapy, and novel therapeutic agents. Strong background in immunology and molecular biology, and experience in cellular and antibody methods required. *Funding for U.S. citizens or permanent residents.* Curriculum vitae and list of references (e-mail preferred) to: **Daniel B. Drachman, M.D., Prof. of Neurology and Neuroscience, Johns Hopkins School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-7519, Meyer 5-119. E-mail: dandrach@aol.com; FAX: 410-955-1961.**

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POSTDOCTORAL POSITIONS are available to study the differentiation of human and nonhuman primate embryonic stem (ES) cells. Projects include identifying genes regulating self-renewal and embryonic pluripotency of ES cells; elucidating the mechanisms that control ES cell differentiation to specific early lineages; and reprogramming somatic cell nuclei to a pluripotent state. We seek highly motivated individuals with a strong background in molecular biology and enthusiasm for developmental biology. Please send a curriculum vitae, three references, and an introductory letter containing a brief description of research and career interests to: **James Thomson, 1220 Capitol Court, The University of Wisconsin, Madison, WI 53715. FAX: 608-262-3524. The University of Wisconsin is an Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE. Bacterial pathogenesis. National Food Safety and Toxicology Center (FSTC), Michigan State University.

The primary focus of the position is the food-borne pathogen *Campylobacter jejuni* and involves three major thrust areas. (1) Identification and analysis of bacterial virulence genes. (2) Analysis of pathogen interaction with host cells using *in vitro* and *in vivo* systems. (3) Development of rapid assays for pathogen identification and methods to detect and measure antibiotic resistance. A Ph.D. or equivalent degree in microbiology, bacteriology, molecular biology, biochemistry, veterinary medicine, or human medicine and well-developed skills in classical and molecular genetics of prokaryotic microorganisms are essential. Salary is commensurate with NIH guidelines for Postdoctoral Research Associate position. Competitive benefits package. The incumbent will interact with an interdepartmental group consisting of five MSU faculty members and several graduate students in the FSTC, which is a research unit of several basic and applied science Departments on campus including Microbiology, Pharmacology, Epidemiology, and Food Science and Human Nutrition. The building houses faculty offices, well-equipped research laboratories, library, and accommodation for laboratory animals. More information about the FSTC can be found at **website: <http://www.msu.nfstc>**. The application deadline is May 15, 1999, or until position is filled. A letter of application, a curriculum vitae, at least three letters of reference, and representative publications should be sent to: **John Linz, Department of Food Science and Human Nutrition, Food Safety and Toxicology Center, 234B GM Trout Food Science Building, Michigan State University, East Lansing, MI 48824. Telephone: 517-353-9624; FAX: 517-353-8963; e-mail: jlinz@pilot.msu.edu.**

MSU is an Affirmative Action/Equal Opportunity Institution. Persons with disability have the right to request and receive reasonable accommodation.

POSTDOCTORAL POSITIONS. Positions are available to study (1) the mechanisms of Alzheimer's disease β -amyloid precursor protein trafficking and proteolytic processing or (2) the functions of Rab GTPases in mammalian cells. For additional information see **website: <http://www.collmed.psu.edu/weis/faculty/maltese.htm>**. Requirements include a recent Ph.D., experience in cell and/or molecular biology, and excellent communication skills. To apply, please send a curriculum vitae and the names and addresses of three references to: **William A. Maltese, Ph.D., c/o Barbara A. Brown, Weis Center for Research, Penn State College of Medicine, 100 North Academy Avenue, Danville, PA 17822-2601. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE available July 1, 1999. Applicant must have Ph.D. or M.D. to study the molecular mechanisms of allergy (IgE regulation, II-4-dependent isotype switching). Qualified candidates should send curriculum vitae, statement of research interests, and three letters of recommendation to: **Donata Vercelli, M.D., Respiratory Sciences Center, P.O. Box 245030, Tucson, AZ 85724. E-mail: dvercelli@resp-sci.arizona.edu.**

The University of Arizona is an Equal Employment Opportunity/Affirmative Action/Minorities/Women/Disabled/Veterans.

POSTDOCTORAL POSITIONS available immediately to study the folding pathway, membrane interactions, and fibrillogenesis of recombinant prion proteins. Strong background in protein chemistry, biophysical/spectroscopic methods, and/or molecular biology (DNA manipulation, site-directed mutagenesis, expression of recombinant proteins) required. Send curriculum vitae to: **W. K. Surewicz, Ph.D., Department of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. E-mail: wks3@pop.cwru.edu. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available to study drug and protein delivery systems for treating retinal disease. Experience in polymer synthesis preferred. Please send curriculum vitae, names of three references, and a recent publication to: **W. Mark Saltzman, Professor, School of Chemical Engineering, Cornell University, 120 Olin Hall, Ithaca, NY 14853. E-mail: saltzman@chemc.cornell.edu.**

GLOBAL OPPORTUNITIES



STAFF SCIENTISTS NATIONAL UNIVERSITY MEDICAL INSTITUTES Faculty of Medicine National University of Singapore

National University Medical Institutes (NUMI) seeks to recruit experienced Staff Scientists at **PRINCIPAL INVESTIGATOR** level to strengthen its research programs in any one of the following areas: molecular medicine, cardiovascular, and oncology research. Successful applicants should have a proven track record of independent research and be strongly driven to succeed in competitive research funding. The Staff Scientist recruited for the Molecular Medicine Laboratories will have responsibility for oversight of the oligonucleotide synthesis service and the opportunity to develop his/her own program in biomedical research. Salary and benefits will be commensurate with qualifications and experience. Details of NUMI's operations, research staff, and programs may be viewed at **website: <http://numi/crc.nus.edu.sg>**. Interested applicants should submit a statement of research interests, curriculum vitae, list of publications, and the names of three referees to: **The Director, National University Medical Institutes, Block MD11 #02-01, Clinical Research Centre, Faculty of Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260 Republic of Singapore.**

Only shortlisted applicants will be notified.

SYMPOSIUM

INTERNATIONAL SYMPOSIUM ON ANIMAL AND ZOONOTIC DISEASES Lessons Learned and Strategies for Meeting Current and Future Threats at Monona Terrace, Madison, Wisconsin June 20-23, 1999

For more information on program and registration, **website: <http://www.vetmed.wisc.edu/pbs/courses/zoonotic.html>**. Or contact: **Dr. Yoshihiro Kawaoka, e-mail: kawaokay@svm.vetmed.wisc.edu.**

EUROPEAN OPPORTUNITIES

MOLECULAR BIOLOGY

The Department of Medicine (Cardiology) at University of Freiburg, Germany invites applications for a **PROJECT MANAGER** in molecular biology applied to the cardiovascular system. We seek a Scientist with research interests and experience in transgenic animal models and adenovirus gene transfer. Please send curriculum vitae and statement of research interests to: **Dr. Manfred Zehender, Innere Medizin III, Hugstetterstrasse 55, Freiburg D-79106 Germany. FAX: D 761-270-3772; e-mail: zehender@mm31.ukl.uni-freiburg.de** and **Dr. Gideon Koren, Cardiovascular Division, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115 USA. FAX: US 617-734-5132; e-mail: koren@calvin.bwh.harvard.edu.**

National Eye Institute National Institutes of Health

The Clinical Immunology Section, Laboratory of Immunology, has an opening for a **Staff Scientist**. This is a renewable position with a five year term. Candidates will be self-motivated individuals with an expertise in cellular and molecular immunological techniques using primary human cells and tissues. The successful candidate will be part of a highly interactive group of scientists and clinicians engaged in basic research and clinical trials aimed at developing novel immunotherapies for autoimmune diseases. Candidates must have a doctoral degree or equivalent training and be U.S. Citizens or resident aliens. Salary (base = \$58,027) is commensurate with qualifications and is accompanied with full benefits. Applicants should send their curriculum vitae, bibliography, and three letters of recommendation to:

Jack A. Ragheb, M.D., Ph.D.
Laboratory of Immunology/NEI/NIH
Bldg.10, Rm.10N112A
10 Center Dr. MSC-1857
Bethesda, Maryland 20892-1857
(e-mail) jr50b@nih.gov

Deadline for receipt of applications is 5/31/99.

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STAFF SCIENTIST POSITION

Ophthalmic Genetics and Clinical Services Branch, National Eye Institute, National Institutes of Health, Bethesda, Maryland. Position available for Ph.D. with experience in protein crystallography, site-directed mutagenesis, protein expression and purification of β -crystallins, theoretical analysis of beta-structural proteins and structural interpretation of gel-filtration, and analytical centrifugation data. Knowledge of the UNIX operating system, programming languages, molecular modeling software and protein databases is essential for this position. Applicants must have at least 3 years of experience in molecular biology of β -crystallins. Salary based on education and experience beginning at \$58,000 for qualified applicants. All applications should include the following: a statement of research interest; a career synopsis, a current curriculum vitae and bibliography, and the names and addresses of references. A list of the requirements or additional information about the position may be obtained by contacting Ms. Cheryl Wild, Personnel Management Specialist, National Eye Institute, Building 31, Room 6A-18, Bethesda, Maryland 20892, telephone 301-496-4274; FAX 301-496-3958, e-mail: CWild@nei.nih.gov

Applications must be received or postmarked by June 30, 1999. Incomplete applications will not be considered.

Candidates must be either U.S. Citizens or Resident aliens who have a Ph.D. degree.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, political affiliation, marital status, disability, age, sexual orientation, or membership or non-membership in an employee organization.

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Post-Doctoral Fellows

Positions are immediately available to study the functions and regulations of BRCA1, BRCA2, p53 and STAT proteins. Studies will be directed toward characterizing cellular targets and regulators of these proteins in vitro and in vivo as well as developing and exploiting novel functional assays. Training in molecular biology and biochemistry is required. Candidates should be experienced in protein purification/characterization, site-directed mutagenesis and cell cycle control. Reply, with C.V. and 3 letters of recommendation, to: **Toru Ouchi, Ph.D., Assistant Professor, Box 1130, The Derald H. Ruttenberg Cancer Center; Fax: 212-987-2240. E-mail: touchi@smtplink.mssm.edu**

Post-Doctoral Fellow

A position is available immediately for a Ph.D. or M.D. to study the development and regulation of epithelial cation and anion channels in mammalian renal epithelial cells using patch clamp techniques. Experience and skill in cellular electrophysiology, preferably patch clamping is required. Calcium imaging and molecular biology facilities are available. See Am. J. Physiol. 270:F391-F397, 1996 and 272:F397-F404, 1997 for recent articles. Reply, with C.V. and 3 references to: **Dr. Lisa M. Satlin, Chief, Division of Pediatric Nephrology, Departments of Pediatrics and Medicine, Box 1664. Fax: 212-426-1972. E-mail: lisa_satlin@smtplink.mssm.edu**

We offer a salary commensurate with experience and excellent benefits. For consideration, please follow "Reply to" information for your position of interest, to: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

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EUROPEAN OPPORTUNITIES

ASSOCIATE PROFESSOR IN CARDIOVASCULAR PHYSIOLOGY University of Fribourg / Switzerland

The Institute of Physiology, University of Fribourg, Switzerland, invites applications for a tenure-track position at the Associate Professor level (available January 1, 2000). The candidate will carry out competitive research in cardiovascular physiology, in a field that reinforces existing research strengths, and must be able to attract external funding. He or she will assume teaching duties in German and/or French to preclinical medical and science students. Applications (with curriculum vitae, a list of publications with copies of the five most important papers, a two-page summary of projected research interests, and the names of three referees) should be sent before June 15, 1999, to: The Dean of the Faculty of Science, University of Fribourg, Chemin du Musée 6A, Fribourg CH-1700 Switzerland. Further information can be obtained from: The Institute's Director, e-mail: jean-pierre.montani@unifr.ch; website: <http://www.unifr.ch/inph/>.

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Operon Technologies is pleased to offer a cornucopia of modifications available with our custom oligonucleotides. For applications that require fluorescent labels, we offer many dyes, including HEX, TET, 6-FAM, TAMRA, ROX, Cy3, Cy5, Oregon Green®, and Texas Red®. We offer phosphorothioates, propyne derivatives, and 2'-O-Methyl RNA residues which can be used to modify oligos for antisense studies. All commonly modified bases such as deoxyinosine, deoxyuridine, and deoxynuclearine, as well as many halogenated bases including 5-bromo-deoxyuridine and 5-iododeoxycytidine are available. We also offer a wide variety of modifications with aminolinkers, biotin labels, and special attachments such as digoxigenin. For a more complete list of possible modifications, please call our customer service department at 800-688-2248 and ask for our catalog.

List Prices for Custom DNA Services

Custom DNA Synthesis Prices			Purification Options		Sequence Modifications			
Scale	Price/base	Set-up	Method	Price	Modification	Price	Modification	Price
0.05 μ mole	\$0.60	\$5.00	Sephadex	free	Amino Modifier	\$25	HEX, TET, 6-FAM	\$70
0.2 μ mole	\$1.20	\$10.00	HPLC	from \$30	Biotin	\$50	Phosphate	\$25
1.0 μ mole	\$2.40	\$20.00	PAGE	from \$45	Cy3	\$70	Oregon Green®	\$125
(Larger scales available)			(Many scales available)		Cy5	\$70	ROX	\$125
					Digoxigenin	\$125	TAMRA	\$125
					Fluorescein	\$50	Texas Red®	\$125
					(Many other modifications available)			

OPERON
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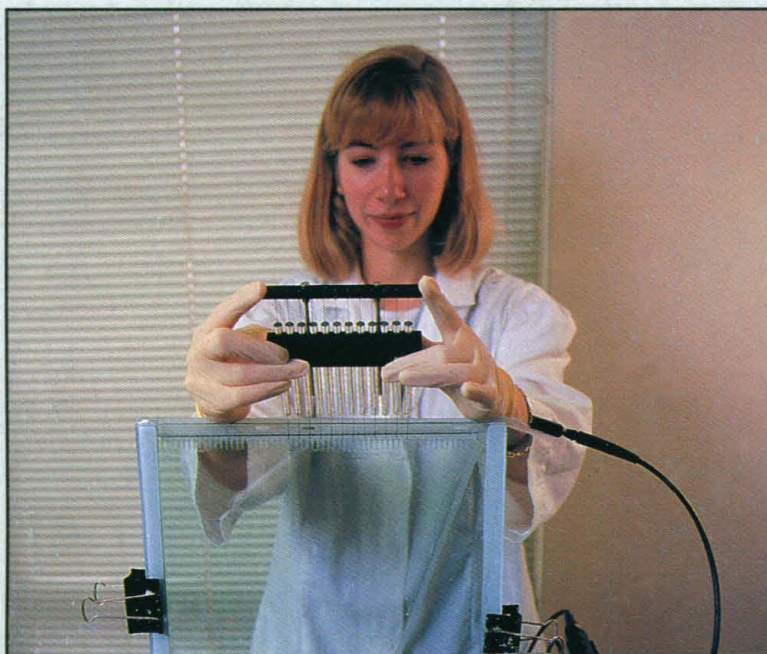
World's Leading Supplier of Synthetic DNA

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Custom Genotyping of Model Organisms



Recognizing the contribution that the studies involving model organisms provide to our understanding of physiology and disease processes, Research Genetics is proud to offer genotyping of model organisms.

Genotyping of any marker which we offer as one of our MAPPAIRS™ is included in the standard fee. Markers are labeled using a kinase reaction with ^{32}P , PCR† products are run on polyacrylamide gels and x-ray film is exposed for each gel. Final data is provided in two forms: the autoradiograph for

each marker on each individual and as a data file in a ready-for-analysis format. All data are confidential.

Custom genotyping of small to large projects is available. Costs for custom genotyping vary widely from project to project. The range of costs is from \$5.00 to \$14.00 depending on the size of the project. Prices are expressed as per sample per genotype. Minimum charges apply.

We request that you schedule your project at your earliest convenience. Estimation of completion times are dependent upon the size of your project and projected start date. Contact Donna Brown (donna@resgen.com) for additional information regarding any aspect of our custom genotyping service or to discuss your project requirements.

The use of microsatellite markers for genetic analysis is covered by U.S. and foreign patents. The exclusive right to manufacture and sell these markers has been licensed to Research Genetics, Inc.

™ MAPPAIRS is a trademark of Research Genetics

†The Polymerase Chain Reaction (PCR) process is covered by patents owned by Roche Molecular Systems, Inc. and F. Hoffman-La Roche Ltd. Use of the PCR process requires a license. A license for research use may be obtained by purchase and use of authorized reagents and authorized thermocyclers, or by otherwise negotiating a research license with Perkin-Elmer.

Research Genetics

Accelerating Discovery

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U.S. or Canada 800-533-4363

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U.K. 0-800-89-1393

FAX 256-536-9016

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