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Stratagene For more information call 800-894-1304 or circle 147 on the Reader Service Card polymerase chain reaction (RT-PCR). The effortless, on-column DNA removal creates pure DNAfree RNA, making the kit suitable for traditional RT-PCR analysis with gel visualization or real-time

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The survey consists of the following four questions:

- **B**riefly describe the ethical issues you believe your discipline faces because of emerging areas of research or technology.
- What advances in communication and information technologies do you believe will pose the greatest ethical challenges for scientists, engineers and society at large?
- If ethics were to be taught as part of the formal curriculum in your discipline, which issues would it be essential to cover?
- In your opinion, what specific actions could be taken to improve the ethics education and training of scientists and engineers?

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Perform/improve upon established animal models; develop new in-vitro, tissue and animal models; evaluate compounds, and novel mechanisms. Bachelor's or Master's degree in Physiology or Pharmacology; 2-3 years postgraduate experience; and experience in animal handling, pulmonary function or cardiovascular measurements and in-vitro cellular assays are highly desirable. PC proficiency as well as data summary/presentation skills are also essential. Ad Code: 2K-LMH4853

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Perform design and synthesis of novel therapeutics to treat diabetes; interpret synthetic and biological experimental results; develop in-depth understanding of project's biological aspects; and supervise associate staff members. Ph.D in Organic Chemistry and 2+ years postdoctoral experience in synthetic/medicinal chemistry research are required. Ad Code: 2K-DEC4852

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# JOCIELLSUS From untradicional sources

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The United States is experiencing the worst shortage of trained scientists in memory. According to the Department of Energy (DOE), one in every two new technology jobs that opens up goes unfilled because of the shortage. So DOE and other government organizations have set up programs to encourage women, members of minority groups, disabled individuals, and others who have not traditionally pursued careers in science to do so now. Companies have also seen the benefits made possible by a wider pool of talent in life science. Several corporations seeking scientists have set up their own programs for recruiting and training members of minorities.

One result of the present situation is that the best and the brightest scientists among women and minority groups are the subjects of intense competition among recruiters. Several companies offer special programs that train managers and others to deal with diversity in the laboratory. They also organize formal and informal groups to advise on issues relevant to minority employees and to help recruit more.

Examples of individuals from untraditional groups who have reached the highest corporate levels play an important role in hiring and retaining the most promising scientists. Those individuals are often encouraged to act as mentors to employees from the same groups.

Companies have also instituted projects to increase the numbers of women and members of minority groups in the pipeline for future employment. Firms hire undergraduate and graduate scientists from untraditional backgrounds as interns, take on minority postdoctoral fellows, and send employees to local schools to encourage interest in science among young students.

Colleges, as well as companies, seek out the most promising prospects among female and minority high school students. Some emphasize opportunities to do research at the undergraduate level and to work in an environment that includes large numbers of other minority members.

While few solid figures exist, corporate officers uniformly agree that increased diversity in companies has a beneficial effect on the bottom line. The mixture of ideas from several different cultures, they feel, automatically makes scientific teams and entire laboratories more productive.

Here we discuss the issue with representatives of three companies that have set up programs to attract women and minority scientists. We also talk with the president of a university that has a special science scholarship program for minority groups and the author of a recent book that features interviews with prominent women scientists.

Millipore Corporation Merck Research Laboratories Bayer Research Center



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The scientist selected for this position will become an integral part of Roche drug discovery efforts by playing a key role in developing assays that directly impact the success of project teams, from exploratory stages to the clinic. You will develop novel assays and oversee ongoing assays that correctly characterize lead molecules and targets. In the process, you will interact with a broad range of scientists in a multidisciplinary group ranging from cell and molecular biology to biophysics. We require a PhD in Biochemistry with postdoc and 0-2 years industry experience and knowledge of enzyme kinetics, protein expression and purification, and assay development. Knowledge and skills in receptor-ligand interactions, molecular cloning, and tissue culture are advantages. Job Code 2373-LV-SC

### **RESEARCH ASSOCIATE - MOLECULAR & CELLULAR ENDOCRINOLOGY**

You will complete the cloning and heterologous expression of gene targets, develop high throughput and secondary assays, and perform *in vitro* biochemical assays to validate the hits from high throughput screening. In addition, you will establish the specificity and selectivity of the confirmed hits in *in vitro* and *ex vivo* assays, handling data analysis, uploading and data retrieval from databases. You should have a BS in Biochemistry, Molecular or Cell Biology and 2+ years industry experience with knowledge of recombinant DNA, drug screening, assay development, and cell culture. Skills in data analysis and data management are desirable. Job Code 2372-LV-SC



### RESEARCH SCIENTIST - MOLECULAR & CELLULAR ENDOCRINOLOGY

Leading our exploratory programs in the area of osteoporosis, you will provide cell/molecular biological and biochemical support. This will include molecular and genetic approaches to identify and characterize drug targets, conducting proof-of-concept studies, developing high throughput and follow-up assays to identify lead compounds and chemical and biological optimization of these leads. You will manage data generated from *in vitro* assays, provide technical support to the high throughput screening team and coordinate *in vivo*, chemistry, and PK/metabolism activities in the program. You should have a PhD in Cell or Molecular Biology, 2+ years of industry experience, excellent skills in the latest molecular biology and molecular genetics techniques and heterologous protein expression. Ability to establish and implement cell-based and cell-free biochemical assays, and basic knowledge in computer-based data management are also required. Knowledge in gene reporter assays and supervisory skills and experience in human genetics, osteoporosis therapy areas or pharmaceutical/biotech industry are advantages. Job Code 2371-LV-SC

### **RESEARCH SCIENTIST - RESPIRATORY DISEASE**

As a lead member of this group, you will propose and implement new ideas for therapies and evaluate existing programs. Working independently and demonstrating sound scientific principles, you will apply your skills in design and development of assays to validate concepts, record and archive data, evaluate research findings, write reports and complete presentations on program status. You must have a PhD in Pharmacology/Cell Biology or equivalent, and 2+ years of relevant experience, preferably in the field of respiratory disease. You must be able to plan and execute experiments, develop findings and draw conclusions for recommendations. Job Code 2375-LV-SC

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### Metabolism & Pharmacokinetics Princeton, NJ

Pharmacokinetic Scientist: Ph.D. with 0-3 years experience to conduct studies that enable development of drug candidates, and report pharmacokinetic, drug disposition, and metabolism data. Must have in-depth understanding of pharmacokinetic principles, familiarity with analysis of drugs and metabolites in biological fluids, in vitro binding and metabolism experiments. Job Code: PRNK219NV

### Metabolic & Cardiovascular Drug Discovery Hopewell, NJ

**Molecular Physiologist:** B.S./M.S. with 3-5 years to facilitate lab research in the molecular pathophysiology of lipodystrophy and metabolic diseases. Knowledge of molecular and cellular biology, biochemistry and in vivo techniques, along with in vivo physiology or pharmacology experience. Knowledge of mitochondrial function, metabolism and metabolic diseases, endocrinology or adipose tissue biology is beneficial. Expertise in mitochondrial isolation, mammalian cell culture, RNA, protein analysis, biochemical and immunoassay techniques a plus. Job Code: PRNK219RP

### Applied Genomics Princeton, NJ

**Biomarkers:** B.A./B.S./M.S. in Chemistry, Biochemistry, Biology, or Medical Technology with 2-4 years experience is desired to identify new large molecule "biomarkers" of disease and therapeutic efficacy within our existing proteomics group. Experience in traditional proteomics techniques is essential. Knowledge in the areas of blood, urine, and CSF collection and analysis is desirable; experience in biochemical methods (e.g., 1D and 2D gel electrophoresis, HPLC, and western blotting) is required. Job Code: PRMS217GA **Biochemists:** Two openings within our existing proteomics group. Position one exists within the Immunology, Inflammation, and Pulmonary Disease management area. Position two works within the Oncology, Cardiovascular, and Metabolic Diseases management areas. B.A/B.S/M.S. in biochemistry or biology with 2-4 years experience is desired to identify and characterize proteins. Responsibilities will also include: cell/tissue culture, cell lysate preparation and processing, protein separation, spot/band identification, and characterization of post-translational modifications. Experience in biochemistry required, especially in the areas of gel electrophoresis, immunoaffinity purification, western blotting, and cell-based assays. Job Code: PRMS217GA2

### Oncology Drug Discovery Princeton, NJ

In Vivo Anti-Tumor Drug Evaluation Scientist: Ph.D. with 3-5 years experience to manage a research team in the designing, conducting and reporting of studies involving the evaluation of novel anti-cancer agents. Background in the utilization of pre-clinical in vivo cancer models to evaluate candidate anti-cancer agents, as well as demonstrated ability in the development of appropriate pre-clinical in vivo cancer models for specified cancer targets. Strong background in pharmacology of current anti-cancer agents is essential. Experience with tumor response biomarkers desired. Job Code: PRNK219FL

### Vascular Biology Princeton, NJ

Physiologist: B.S./M.S. with 5+ years experience to demonstrate in vivo and ex vivo pharmacodynamics and proof-ofprinciple in early phase and full phase drug discovery programs. Knowledge of in vivo and ex vivo assay methodologies and equipment, as well as the technology, equipment and techniques employed for in vivo physiologic measurements, biochemical spectroscopy and functional imaging a must. Experience with developing pharmaceutical exposure-response relationships in pre-clinical in vivo models is essential. Job Code: PRNK219MO

**Molecular Biologist:** B.S./M.S. in Molecular/Cellular Biology or Biochemistry with 2-5 years experience to design and implement a variety of new or published assays for use in indentifying and optimizing potential drug candidates. Experience with mammalian tissue culture techniques including transfection and selection of stably expressing cell lines and knowledge of ligand binding assays, enzymatic assays, RIAs and EIAs are necessary. Must have expertise with dosing and tissue sampling techniques in rodents. Job Code: PRNK219RR

### Metabolic Research Hopewell, NJ

**Molecular Biologist:** M.S./B.S. with 2-4 years experience to participate in drug discovery in the areas of obesity, diabetes and atheroscerosis. Experience in basic molecular biology including the analysis of gene expression, plasmid construction, PCR amplification, cell culture, and recombinant protein expression with some exposure to in vivo physiology required. Knowledge of biochemistry and eukaryotic cellular biology with experience in in virto and cell-based assays, and the ability to design and execute experiments are necessary. Expertise working with animal models or in automated assays is desired. **Job Code: PRNK219TKNH** 

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### Manager, Renessen Regulatory Affairs, **Chesterfield**, MO

Develop regulatory strategies for the commer-cialization of improved animal feed products for Renessen, a joint venture between Cargill and Monsanto Company. Working with Renessen leadership, project teams and Monsanto regulatory affairs, you will establish constructive relationships with regulatory agencies/non-governmental regulatory authorities around the world to ensure that appropriate regulations are developed for improved nutrition products derived from plant biotechnology for the animal feed markets. An advanced degree in Animal Sciences/Nutrition or related science with experience in regulatory affairs required. Job Code: MRRA

### Scientific Programmer (Java, Oracle, Perl/CGI, CORBA), St. Louis, MO

Per/CGI, CORBAJ, St. Louis, MO Develop scientific workbench, data analysis tools and data loading capabilities. Work as part of a team to use OOAD techniques in developing multi-tier applications to support the tracking/analysis of large volumes of genomic data. BS in Computer Science, Physical/Life Science or equivalent experience combined with 5+ years of full-time experience as a Programmer/Analyst in a scientific, technical, or business environment required Knowledge and past experience in software required. Knowledge and past experience in software development using Java, Perl/CGI and Oracle and past experience at developing client-server/multi-tier applications a must. **Job Code: SP**.

### Maize Molecular Geneticist & Biologist. Davis, CA

As a part of Monsanto's Metabolic Engineering program, you will conduct research that integrates genetics, genomics technologies and metabolic engineering for maize quality trait enhancement. Ph.D.; postdoctoral experience or its equivalent; and knowledge of maize genetics and biology required. Job Code: MMGB.

### Leader, Transcription/Gene Expression Profiling – TxP, St. Louis, MO

Lead a transcription profiling core production team capable of delivering large quantities of high quality data and communicate across the enterprise to ensure appropriate knowledge and understanding of Cereon apploite knowledge and understanding of Cereon capabilities. 8+ years experience in management of a high throughput genomics lab, process engineering background desirable, and a Ph.D., Engineering degree, or equivalent experience required. **Job Code: 7200-17**.

### **Molecular Breeding Research Associate,** Ames, IA

Assist in molecular breeding, genomics, and genetics research programs on soybean. The research program focuses on traits that increase the value of the soybean crop and capitalizes on cutting-edge genomic approaches, and state-of-the art genetic/breeding techniques. An M.Sc./B.Sc. in Agronomy or related field or relevant work experience with an M.Sc. preferred. Pesticide applicator license and Class A CDL or ability to obtain them a must. An academic background/experience in plant breeding, genetics, agronomy, and molecular biology is highly preferred. Job Code: MBRA.

**Cell Biologist, Corn Yield, Mystic, CT** Work as a member of a multidisciplinary, discovery research team, investigating growth and development in corn. Must have research experience with plants in the areas of cytology, histology and related disciplines and be broadly trained in molecular biology. Ph.D., M.S. or B.S. degree, the last with 2-5 years of hands-on research experience in an academic/industrial laboratory required. Job Code: CBCY

### **Technical Leader, Trait Development, Cambridge England**

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### Plant Genomics Scientist, St Louis, MO

Use high throughput genomics based technologies as a part of the Gene Discovery Team within Ag Genomics. The Team's mission is gene discovery in plant species and other targeted organisms using innovative techniques to reach genome closure and identify genes important for key agricultural traits. A BS with 5 years experience or MS with 2+ years experience in Molecular Biology or Genetics required. Excellent demonstrated molecular biology of definition requires re

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**Cereon Genomics** is an agricultural biotechnology company formed in November 1997 through a col-laboration between Millennium Pharmaceuticals and the Monsanto Company. Cereon's goal is to develop and apply genomics to agricultural problems, and thereby improve the quality and quantity of the world's food supply. Exciting opportunities to become part of an innovative, ground breaking industry are currently available for the following:

### Expression Profiling Logistics Coordinator

Expression Froming Logistics Coordinator Lead a transcription profiling core production team capable of delivering large quantities of high quality data to customers throughout the company. This group is responsible for array element production, array printing, probe production, hybridization, data collection and primary analysis. M.S in Engineering or Operations of equivalent production expressed Operations, or equivalent production management experience required. Job Code: 7200-295.

### Lead Automation/Process Engineer

Lead Cereon's automation group and work with discovery scientists, statisticians, and bioinformaticists to design and implement processes for plant gene discovery science, such as sequencing, transcript and metabolic profiling, plant handling, physiological measurements, and genotyping. Master's degree or equivalent and 5+ years experience of process engineering with robotics and automation applicable to a lab production setting required. Experience in genomics is a strong plus. **Job Code: 8700-08S**.

### Software Developer - Bioinformatics

We are building a leading edge platform using state-of-the-art technologies including distributed components, generic workflows, Oracle, Java, Web content delivery, and CORBA. The components range from user interfaces to high-end databases to algorithms for improving automated analysis of a wide variety of genomics data. Master's or equivalent in Computer Science, 1+ year Java experience; 3+ years software development experience; and experience in developing distributed systems (EJB, CORBA, etc.) and UNIX a plus. Job Code: 7100-035.

### **Computational Biologist – Bioinformatics**

Computational Biologist – Bioinformatics The Bioinformatics department at Cereon Genomics has openings for Computational Biologist positions. Master's/Ph.D. in Biology or related field, and a proven ability in analyzing large volumes of biological data using computational approaches required. Programming (Perl, C, Java) and database (relational, SQL queries) experience essential. Job Code: 7100-33.

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"We're able to hire very talented people from all sorts of backgrounds.... From that come the competitive environment and intellectual challenge that encourage the growth of a healthy, smart organization."

KATHY ALLEN



**BEDFORD, MASSACHUSETTS:** Millipore Corporation shows the typical face of a diverse organization. "Approximately half of our head counts are not American," says Kathy Allen, the company's chief financial officer. "We also have major research facilities in Asia, France, and the United Kingdom, as well as the United States. We have the opportunity to recruit in those countries and

to move people around. It's amazing how diverse

KATHY ALLEN

our culture is. Senior division managers are French, for example, and our director of Human Resources in Asia is an American woman."

The company also emphasizes the need to seek out life scientists in the United States among women and minority groups that have not traditionally produced large numbers of scientists, by attending professional conferences and college job fairs that focus on those groups. "We want to have access to as wide a group of talent as possible in the recruiting process," Allen continues. "We are constantly trying to add diversity to our demographics."

That doesn't mean a relaxation of standards. "We don't show any preferences in hiring requirements," says Allen. "The best-skilled persons will get the jobs. But we invest in charitable organizations and fund university programs targeted to extended education of women and minorities in science and engineering."

That effort recently received recognition. In September, *Working Mother* magazine chose Millipore as one of the top 100 companies for working mothers, based on such criteria as child care, leave for new parents, flexible work arrangements, work and life benefits such as elder care and adoption assistance, and opportunities for women.

In her high-profile position, Allen represents a significant example of the opportunities for advancement that the company offers women. "When I was promoted to CFO, I was surprised at the number of young women in the organization who approached me in the cafeteria to say how impressed they were at my promotion and the company's demonstration of its commitment to women," she recalls. Millipore has two other women in senior executive positions and two women on its board of directors.

Women aren't the only individuals likely to note that commitment. "Other minority groups extrapolate how companies treat women as an assumption about its tolerance for all other kinds of people," Allen says. "People planning a career will quickly determine whether they are in a friendly or unfriendly environment."

Does a commitment to diversity help the bottom line? Allen doesn't have quantitative data to tell either way. Nevertheless, she says, "I have a gut instinct that we absolutely do benefit from the diversity of our work force. We're able to hire very talented people from all sorts of backgrounds and different environments. From that come the competitive environment and intellectual challenge that encourage the growth of a healthy, smart organization."



**RAHWAY, New JERSEY:** Bakela Nare demonstrates the value of diversity every day in his position as a research fellow in infectious diseases at the Merck Research Laboratories. As a black Zimbabwean with a Canadian Ph.D. in parasitology, he says, "I bring a different approach to problems." Significantly, he adds, "My approach is welcomed. I feel that companywide Merck wants to attract minorities."

BAKELA NARE

Like other companies in the pharmaceutical and biotechnology industries, Merck confronts a serious shortage of top-notch scientists. "So we need to look a little harder than in the past and to cast a wider net to find a lot of talent that we wouldn't have seen in the past," says Nare. To that end Merck has set up several overlapping initiatives. "It's important that the policy is in place," says Nare. "It makes it easier for us in the various groups to go out and pursue qualified people."

Nare himself is a member of a diversity steering committee. "It helps to make sure that some of the diversity issues are dealt with," he explains. "The committee is involved in recruitment and a number of different programs relevant to diversity. We help to ensure that our work force is as representative of the community at large as it can be." The company also encourages activities of several informal internal affinity groups such as the Merck women's network and the black employees network. "We can use them from time to time to access minorities," says Nare. "They can be incredibly effective because they give minority employees someone to talk to."

Promotions to top management help to convince members of minorities that the company values them. "Whatever minority group you belong to, if you see the same people as you in senior positions you're encouraged," says Nare. "We now have many women, African Americans and other minorities in prominent positions."

The company also tries to lay the groundwork for a more diverse work force in the future. "We are in the sixth year of a 10-year, \$20 million commitment to increase the number of underrepresented minority scientists in the United States by funding highly competitive fellowships at the undergraduate, graduate, and postdoctoral stages in the education pipeline," says Nare. "There are very few African Americans out there with Ph.D.s in chemistry and biology. So the idea is to fill the pipeline with more, which we are doing." At an earlier stage in the educational

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Novartis Agricultural Discovery Institute Inc. (NADII) is one of the largest single fully funded research endeavors dedicated to agricultural genomics. We apply cutting-edge biotechnology to match genes with traits & provide advanced technologies that can be used widely in agribusiness research for the development of gene-based products with enhanced health & nutrition aspects. We currently seek the following exceptional individuals to join our team:

### Consumer Health Section Opportunities - San Diego, CA

Postdoctoral Associate - Gene Discovery Incumbents will conduct gene discovery research in transcriptional control of plant gene expression using a combined transcription profiling & reverse genetics approach. Resp. include analyzing gene expression data generated by microarray technology & maintaining collaborative links with other laboratories. Candidates should have a Ph.D. in Plant Molecular Biology, Genetics or related field & knowledge in molecular biology & genetics of transcriptional control. Job Code: PAGD/XG-SCI

Postdoctoral Associate - Metabolic Pathway Genomics Positions available in the area of natural products metabolism. Work will focus on the application of integrated genomics technologies (microarrays, proteomics, metabolite profiling) to understand the complex regulatory network underlying secondary metabolism with an emphasis on the biosynthesis of health-promoting metabolites in plants. Candidates should possess a strong background in plant biochemistry & molecular biology with solid exp. discovering genes that regulate metabolic pathways. Experience in modern screening methods for therapeutic activities preferred but not essential. Job Code: PAMPG/ML-SCI

Postdoctoral Associate - Functional Genomics Position available second quarter 2001 to discover genes for seed quality improvement. Responsibilities include utilizing genomic tools (proteomics & microarray RNA profiling technology) to identify genes from unique germplasm & mutant lines, & to develop methods to further investigate applications of the genes. Candidate should have a Ph.D. in Plant Molecular Biology, Biochemistry or Plant Physiology. Strong background in seed physiology & bioinformatics experience preferred. Job Code: PAFG/WS-SQ

Postdoctoral Associate - Protein Engineering Incumbent will develop new technology for manipulation of endogenous function/process through novel combination of chemistry & biology. Applicants should have a Ph.D. in Chemistry, Biochemistry or Molecular Biology, & a strong background in organic chemistry, biochemistry, & molecular/cellular biology. Exp. in directed evolution and/or rational protein design. Job Code: PAPE/TS-SQ

### RNA Dynamics Group Opportunities - San Diego, CA

Positions available to study host-virus interactions & to develop vectors to study plant gene function. Studies of host-virus interactions will use integrated genetics & reverse genetic approaches to identify host genes involved in plant viral pathogenesis. Analysis of plant gene function will involve over expression or silencing of plant genes.

Associate Scientist Req. a Ph.D. & 2 or more years' postdoctoral exp. Strong background in plant virology & plant biology & excint, computer skills are essential. Job Code: AS/YH-SCI

Research Associate Reg. a BS/MS in Biological Science with laboratory exa. in molecular biology & genetics. Most have eachn, computer skills. Job Code: RA/YH-SQ

### Novartis Seeds Opportunities - Gilroy, CA

Novartis Seeds is the largest vegetable seed company in the world, with a strategic focus on the development of advanced vegetable seeds through the combination of genetics & technology. To support this strategy we are expanding our Molecular Marker & Genetics Groups at our Gilroy, CA Research Center. The Center is ideally located between Silicon Valley & Monterey Bay.

Associate Plant Scientist/Lab Supervisor - Marker Technology Position will contribute to strategic planning, resource management & coordination of local, NADII and global research efforts. Responsibilities include technical leadership, team-building, mentorship, ABI-genotyping/sequencing, multiplex PCR & basic automation. Ability to troubleshoot ABI 377, contribute to the assembly of high-throughput genotyping & incorporate bioinformatics resources are key to success. Req. MS with 3-5 years' related exp. & proven supervisory skills. Job Code: APSLS/GIL-SCI

Assistant Plant Scientist I - Marker Technology Position will play a key role in the development of SSR markers in several vegetable species. Responsibilities include ABI-based genotyping & sequencing, primer design and protocol development. Opportunity to participate in the assembly of a high-throughput genotyping platform and use of bioinformatics tools. Req. BS in Biology, Biochem. or Genetics & sequencing & PCR background. Job Code: APSI/GIL-SCI

Associate Plant Scientist - Marker Development Position will lead the development of diagnostic PCR assays in multiple vegetable species, through interactions with several plant breeding programs and external collaborators. Responsibilities include experimental design, population development, DNA sequencing, PCR assay design & optimization. Req. BS in Genetics or Biochem., 3-5 years related exp., strong genetics and organizational skills. Knowledge of plant breeding helpful. Job Code: APS/GIL-SCI

Assistant Plant Scientist III - Markers/Bioinformatics - Position will participate in the development of assays for SSRs, SNPs, interspecific genes/markers & candidate genes via public/private sequence databases. Responsibilities indude the development of routines & user interfaces for academic & commercial computational resources, LIMS management, staff education & interactions with NADII Bioinformatics group. Req. CS affinity, functional knowledge of bioinformatics and the ability to take projects from start to finish. Job Code: APSIIIBio/GIL-SQ

Assistant Plant Scientist III - Statistical Genetics Position will coordinate QTL mapping & marker assisted selection in several plant breeding programs. Responsibilities include leadership in statistical aspects of marker assisted breeding, experimental design, data analysis, supervision of technicians and coordination of multi-location research projects. Req. MS in Genetics or Statistics with 3-5 years' related exp. Job Code: APSINSG/GIL-SCI

All positions req. exdnt. communication & organization skills & the ability to work in a team environment. NADII & Seeds offer exdnt. compensation & a great benefits package, induding matching 401 (k) with immediate vesting & a generous relocation program. For immediate & confidential consideration, please send resume induding job code, salary history & expectations to: Novartis Agricultural Discovery Institute, Inc., HR Dept., 3115 Merryfield Row, Ste. 100, San Diego, CA 92121-1102. Fax: (858) 812-1096. Resumes omitting a Job Code will not be considered. EOE

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Worldwide, there are over 43,000 SmithKline Beecham employees who give substance and reality to our cause: healthcare prevention, treatment and cure. And because there are no unsung heroes in these efforts, we actively support every individual with constant learning. It is their growth, creativity and contributions that will lead us forward. Working together, we'll enjoy a future of shared success in becoming the world's leading healthcare company.

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# **Research and Training Opportunities**

at the National Institutes of Health

### **Student Training Programs**

### College

- Summer Internship Program in Biomedical Research
- Student O
- Postdoctoral O
  - Clinical O
- Tenure-Track O
- NIH Undergraduate Scholarship Program for students from disadvantaged backgrounds who are committed to careers in biomedical research

### Postbaccalaureate

- Postbaccalaureate Intramural Research Training Award (IRTA) - for recent college graduates who plan to apply for graduate or medical school
- NIH Academy for individuals with an interest in research that focuses on the elimination of domestic health disparities
- Technical IRTA for individuals with a bachelor's or master's degree who aspire to careers as research support professionals

### Graduate

- Summer Internship Program in Biomedical Research
- Predoctoral IRTA for students in doctoral programs
- Interim or Year-Off IRTA for graduate students who desire an interim or year-off research experience
- NIH/George Washington University Graduate **Program in Genetics**
- NIH/University of Maryland Predoctoral Visiting Fellow program – for international students
- Technical IRTA for individuals with a bachelor's or master's degree who aspire to careers as research support professionals

### Medical and Dental School

- Summer Research Fellowship Program for firstand second-year medical and dental students
- Clinical Electives Program clinical rotations for third- and fourth-year medical and dental students
- Interim or Year-Off IRTA for medical students who desire an interim or year-off research experience
- Clinical Research Training Program for medical and dental students who have completed their clinical rotations

### **Postdoctoral Fellows Program**

The focus of this program is on biomedical laboratory research. It is designed to provide advanced research training to doctoral-level scientists who are at the beginning stages of their research careers.

### **Clinical Fellows Program**

This program allows physicians and dentists the opportunity to combine subspecialty and advanced residency training with biomedical research training in a variety of disciplines. Over 16 programs are accredited through the Accreditation Council for Graduate Medical Education. The first year is spent engaged in clinical rotations on wards at the NIH. Certain subspecialty programs utilize clinical opportunities at affiliated hospitals in the Washington, DC area. In the second and third year, the fellow is trained in basic and clinical research and subspecialty training requirements are completed as applicable.

### **Tenure-Track Program**

The Tenure-Track Program is intended to provide a uniform and equitable mechanism for identifying and promoting outstanding scientists to the ranks of permanent intramural investigators. Tenure-track scientists receive the resources necessary (including space, budget, support staff and fellows, and up to six years - eight for clinical investigators, to demonstrate their creativity and productivity as independent investigators) before being evaluated for tenure. Tenure-track positions are advertised on the NIH Office of Education's web site (see URL above) and in scientific journals.

### National Institutes of Health

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To maintain a competitive edge, Pfizer encourages and promotes diversity of thought—a critical component in creating customer-focused solutions to the issues and challenges we face. To this end, we ask all managers to employ and develop high-caliber people who differ from one another culturally, intellectually and experientially, as well as by race, gender and other factors. We also encourage people from diverse backgrounds to join our team and share their unique talents and perspectives.

### The Best Place to Work

We're also committed to making Pfizer a great place to work—and our efforts are making a noticeable difference. *Forbes* magazine recently named Pfizer the "Company of the Year" and *BusinessWeek* placed us among the "50 Best Performing Companies in the United States." We're especially delighted to be among *Fortune's* "100 Best Companies to Work For in America" particularly since two-thirds of *Fortune's* scoring was compiled from anonymous employee surveys.

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**Consumer Health Division** Senior Planner Director, Compliance Support Support Specialist **Director, Clinical Operations** Director, Pharmaceutical Development

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**U** NOVARTIS The Spirit of Discovery



"I'm convinced that the more diverse your team is ... the better it will be able to generate new ideas. That will result in greater productivity and a much faster pace in generating ideas."

**ASTRID ORTIZ** 

process the Merck Institute of Science Education works with kindergarten to eighth grade students and teachers in the New Jersey-Pennsylvania area to encourage interest in science and to improve the quality of science education.

Perhaps most important is the effort to retain skilled minority scientists once the company has recruited them. "You have to make them feel comfortable and provide the tools to do so," Nare says. "I feel more and more comfortable all the time. I don't feel that I'm in isolation. Merck is becoming almost a second home."



WEST HAVEN, CONNECTICUT: "When I came to the Bayer Research Center for an interview a year ago, one of the things that caught my eye was that the diabetes and obesity department had a very diverse group. Females and members of various ethnic groups were well represented in the department," recalls Astrid Ortiz, an experimental psychologist born and raised in Puerto Rico. "An important factor in my decision

ASTRID ORTIZ

to take the job was having scientists who are female and high-ranking." Evidence of Bayer's sensitivity to diversity continued when Ortiz joined the department as a principal research scientist. "One of the first things I did was attend a two-day training course in diversity," she says. "In addition, the company has developed comprehensive diversity plans for each department, a commitment that goes well beyond the foundation of training." Bayer's diversity plans focus not only on creating a diverse environment, but also in embracing the unique qualities that diversity brings to the organization. "For example," Ortiz continues, "the plans for the

Research Center include mentoring programs to help new employees develop the skills to work in the environment and the understanding necessary to work with groups from different backgrounds. To reinforce the focus and importance of diversity, it is part of our development plan in performance evaluations. Obviously the company has a very clear commitment and a well-organized strategy for encouraging diversity."

That effort is not solely philanthropic. Like other pharmaceutical companies, Bayer must confront very tough competition for the top scientific talent. "Part of the strategy is attracting new scientists and exposing minority groups to new opportunities," says Ortiz. "We aim to keep up links with the local community. We have a Science Making Sense program



in which employees work as volunteers in schools and mentor students to stimulate interest in science. We participate in job fairs organized by minority groups. We offer scholarships for minorities in chemistry. For example, Bayer has established a partnership in the American Chemical Society Scholars Program. The program is designed to encourage African-American, Hispanic/Latino and Native American students to pursue undergraduate college degrees in the chemical sciences and chemical technology. The goal of the scholarship program is to aid in building an awareness of the value and rewards associated with careers in the chemical sciences and chemical technology by assisting students in acquiring the skills and credentials needed for success in these areas. The company is very aware of the value of an increasing diversity in the work force."

Ortiz has no doubt that the diversity of the work force offers significant improvement to the productivity of the Bayer Research Center. "Most of our work is done in teams," she explains. "I'm convinced that the more diverse your team is, with different backgrounds and exposure to different cultural environments, the better it will be able to generate new ideas. That will result in greater productivity and a much faster pace in generating ideas."



**CATONSVILLE, Maryland:** Thanks to the efforts of its president, Freeman Hrabowski, the University of Maryland, Baltimore County graduates more African Americans with undergraduate degrees in biochemistry than any other academic institution in North America. Virtually all these students, who have benefited from substantive research experiences, as undergraduates, go on to doctoral programs across the country.

FREEMAN HRABOWSKI

Those achievements stem mainly from the Meyerhoff Scholars Program that Hrabowski set up 12 years ago. Named for a Baltimore couple who first funded the scholarships, the program supports approximately 200 minority students (including 50 freshmen) who show promise in mathematics or science at the high school level. "We aim to find students with the willingness to work very hard and a passion for science," says Hrabowski.

The program offers more than financial aid. "This is a research university that cares very deeply about its undergraduates," says Hrabowski. "We encourage group study, serving as tutors for other students, working as mentors, and sitting in discussion groups with postdoctoral fellows. Even our freshman courses are taught by productive research fac-

ulty. Many of our research faculty are determined to produce undergraduates with research experience. Students at the undergraduate level are publishing in refereed jour-

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The Division of Molecular Genetics, part of the Genomics Department at Genetics Institute and Wyeth Research, is a dynamic team using the latest in transgenic and gene-targeting technologies to evaluate and validate targets for drug discovery. Projects involve research in diseases of the central nervous system; bone and cartilage; the immune system; and in the areas of cancer, infectious diseases and Women's Health. We currently have a number of staff openings at our research facilities in **Andover, MA** and **Princeton, NJ**, and we seek skilled and highly motivated scientists to join our effort.

### MS/BS positions - Andover, MA

**Research Assistant-** Gene Targeting Core: Primary technical responsibilities include design and preparation of gene constructs and genetargeting in embryonic stem cells. Secondary responsibilities include sharing in the support of general laboratory operations.

This position requires strong laboratory skills in molecular biology and cell culture and experience in gene-targeting. Excellent communication and computer skills are also a must. BS or MS in a relevant area of biology required, along with 3-5 years of relevant laboratory experience.

**Research Assistant- Molecular and Cell Biology:** Position involves molecular and phenotypic characterization in transgenic and genetargeting projects for the development of therapeutic agents. In addition to studies of bone biology, other projects may involve research in diseases of the central nervous system; bone and cartilage; the immune system; and in the areas of cancer, infectious diseases and Women's Health.

Applicants must have expertise in molecular cloning and gene analysis, and should be familiar with a broad range of genomics technologies including DNA chip analysis. Excellent communication and computer skills are a must. BS or MS in a relevant area of biology required, along with 3-5 years of relevant laboratory experience.

### Ph.D. positions - Andover, MA

<u>Molecular Biologist</u>: The incumbent will be responsible for the design and conduct of research projects using transgenic and gene-targeting technologies. Opportunity exists to develop research projects focused on the use of transgenic or gene-targeting technologies to evaluate potential targets for drug discovery in disorders of bone and cartilage, the immune system, or in the areas of cancer, infectious diseases or Women's Health.

A proven track record in molecular biology as well as transgenic and gene-targeting technology is required. This includes DNA, RNA and protein blotting, PCR analysis, Taqman analysis, Restriction Enzyme analysis, DNA cloning, DNA sequencing, plasmid preparation and purification. Previous experience in cell culture is a plus. Excellent communication and computer skills are a must. Ph.D. in a relevant area of biology required, along with 3-5 years of relevant laboratory experience.

**Postdoctoral Fellow:** The incumbent will develop and carry out a research program to develop enhanced transgenic approaches through the use of novel recombinant DNA technologies. The project will evaluate a system for ligand-dependent temporal control of Cre recombinase-mediated deletion of targeted genes. The technology may allow greater control of the gene-targeting process (e.g. tissue specificity). Opportunity also exists to develop additional research projects focused on the use of transgenic or gene-targeting technologies to evaluate potential targets for drug discovery in disorders of the skeletal and immune systems.

This position requires a Ph.D. in Molecular Biology with a proven track record in the production and characterization of transgenics and Knockouts. Candidates should have research interests in diseases of the central nervous system, bone and cartilage, and immune system, or in the areas of cancer or infectious diseases or Women's Health.

### Ph.D. position - Princeton, NJ

**Postdoctoral Fellow:** The incumbent will join a developing research program designed to evaluate and implement tissue-specific promoter modifications for the regulation of transgene expression, with emphasis on neuron-specific expression. The general approach involves the modification and analysis of tissue-specific promoters to achieve over-expression that can then be either repressed or enhanced. Opportunity also exists to develop additional research projects focused on the use of transgenic or gene-targeting technologies to evaluate potential targets for drug discovery in disorders of the central nervous system.

This position requires a Ph.D. in Molecular Biology or a related field with a proven track record in the use of genomic technologies. Previous neuroscience research experience is a plus.

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### **DIRECTOR OF MANUFACTURING**

Position will be responsible for directing and overseeing the planning, implementation, and maintenance of clinical and commercial manufacturing of AAV viral vector products under GMP. Responsibilities include setting production schedules, and management of materials, equipment, and manpower requirements. Will interact closely with engineering, facility, QA, and regulatory functions.

Must have an advanced degree in biology, chemical engineering, biochemistry, or an allied science, and at least 5-8 years experience in management of pharmaceutical production activities, requires a good team player and communicator who has already demonstrated skill in working on multidisciplinary teams. Knowledge of GMP manufacturing of biologics is essential. Experience in commercial manufacturing of biologic drug products is strongly desired.

### SENIOR PROJECT MANAGER

Candidate must have broad cross-functional experience in the pharmaceutical industry and a minimum of 5 years experience in the management of multidisciplinary project teams. Requires a Bachelors degree in a scientific discipline plus applicable courses in business/business management. Must be able to communicate effectively, maintain good relationships and have an in-depth understanding of the drug development process.

Responsibilities include managing project teams independently, provide leadership and guidance to others, establish team structure, and operating principles consistent with Avigen model, accountable for producing and maintaining project development plan (PDP), promote team development, enhancing project performance, facilitate communication, and provide leadership.

### FORMULATION SCIENTIST

This position will fill a key role in development of recombinant AAV vectors for human clinical trials. Candidate must have a strong background in the optimization of formulation and stability of biotechnology products, ideally viral vectors. A good working knowledge of relevant FDA regulations and cGMP required. Experience in vector purification process optimization and scale-up a plus. Candidates must have a PhD, 3+ years of relevant experience, and excellent communication skills.

### PHARMACOLOGY / TOXICOLOGY SCIENTIST

Seeking a pharmacologist/toxicologist to design, coordinate, monitor, and evaluate GLP toxicity and biodistribution studies in support of the clinical evaluation and registration of AAV based gene therapy products. Position requires PhD in toxicology with 2+ years of industrial experience in in vivo toxicology testing. Experience with biological and viral based products preferred.

### DEVELOPMENT ASSOCIATES CELL CULTURE AND VIRUS PURIFICATION

Seeking experienced Development Associates to play key roles in a core facility for AAV vector production and characterization. A background in virology / viral vectors, and experience in cell culture and virus purification required. Candidates must have a BSc or MSc degree, and 3+ years relevant experience. Industry / cGMP experience a plus.

### DEVELOPMENT ASSOCIATE ASSAY DEVELOPMENT AND VALIDATION

Seeking an experienced Development Associate or Scientist to play a key role in AAV vector characterization. A background in virology / viral vectors, and experience in assay development and assay validation is required. Candidates must have a BSc or MSc degree and 3+ years of relevant industry / cGMP / GLP experience.

### QUALITY ASSURANCE SPECIALIST

We are seeking a QA professional, a detail-oriented individual familiar with team interactions and excellent, demonstrated communication skills. Responsibilities will include: working with us to ensure compliance to cGMP, review of Batch Production records and supporting data, investigation reports and change control/corrective action closure activities.

Candidate must have the following relevant qualifications:

- BS in an appropriate scientific discipline and 3-5 years experience in the pharmaceutical or bio-pharmaceutical industry
- · Working experience in, and knowledge of, Quality Systems
- Proven detailed data and Batch Production Record review experience
- Administration of change control and deviation systems
- · Expertise in compliance oversight and training is desirable

### QUALITY CONTROL ANALYST II

Position will be responsible for conducting routine and non-routine analysis of raw materials, in-process, finished products and stability samples according to SOPs, develop, validate/qualify, and improve assays for better efficiency and consistent results. Requires a BS in Microbiology, Biology, Molecular Biology or Chemistry; 3-5 years biotech/pharmaceutical work experience; and familiarity with SDS-PAGE, Western/Southern blot, cell-based potency assays, LAL, DNA hybridization, protein assay, PCR and GLP/GMP. HPLC a plus. Solid computer skills (MS Excel and Word). An organized, detail-oriented professional with excellent teamwork skills is ideal.

We offer competitive salaries, benefits paid in full by the Company, stock options, 401(k), growth potential and an exciting opportunity to work with a dynamic team focused on exploring the impact of gene therapy on selected human diseases. To apply, email/send/fax resume, SPECIFYING POSITION OF INTEREST, to: Avigen, Inc., Human Resources, 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; e-mail: sdelph@avigen.com, fax: (510) 748-7155. EOE - Principals Only - NO CALLS.



# Focus on the future shap

At Boehringer Ingelheim, we believe that the future is not an event to be anticipated...but an opportunity to be shaped. We're ready to transform your innovation and drive into the power to define an industry - to

### Information Technology

Information Technology is an important partner in the BIPI RED process. Current projects involve implementation of state-of-the-art pharmaceutical industry related software, substantially based on Oracle Database, and Internet/Intranet web enabling technologies. IT professionals with experience in these skills are strong candidates. Additionally, scientists with solid computer skills and an interest in combined R&D/IT careers are also encouraged to inquire. We are now actively staffing for projects in the following areas:

- Process Automation
- Electronic Notebook Document Management
- Combinatorial Chemistry Bioinformatics
- Web Development

### Medical Department

Our Medical Department plans, conducts and reports the results of clinical tests designed to determine the efficacy and safety of the company's prescription drug candidates. Working with clinical investigators in major academic centers across the U.S., our professionals have earned a solid reputation for their high standards and productivity. Opportunities exist for highly motivated professionals in the following positions

- Clinical Research Associate
- Director of Virology
- Clinical Database Specialist
- Regional Data Center Analyst
- Clinical Design Specialist
- Statistician

At our Ridgefield, CT campus, we offer a dynamic, collaborative environment where insight, inspiration and commitment create opportunity on an entirely new scale. For immediate consideration, please e-mail your resume and salary history to: bipi@bi-careers.com; or send to: Boehringer Ingelheim Staffing Center, Po Box 534, Waltham, MA 02454-0534; or fax (781) 663-2431. Including Job Code AD-SCI/DIVERSITYoo in your cover letter or subject line will help us to expedite your request and avoid delays in routing your resume. Please, principals only. Unsolicited agency referrals will not be accepted. We are a proud Equal Opportunity Employer and are committed to offering a healthy, non-smoking work enviroment, M/F/D/V.

develop and market breakthrough pharmaceuticals that enhance the quality of human life. Bring your ambition into focus and your goals within reach by contacting Boehringer Ingelheim today.

### Sales & Marketing

If you're an individual who thrives on challenge, change and rewards, Boehringer Ingelheim is the place to be. With a goal of tripling sales in the next five years, the company is launching new products and posting record sales revenues with more growth expected into the next century. We're adding marketing and sales professionals at an unprecedented rate to position, launch and sell new products in addition to supporting a strong line of well-established pharmaceuticals

- Professional Sales Representatives Countrywide **Opportunities**
- Managed Care positions

### Research & Development

Transforming laboratory discoveries into effective therapeutics is a common goal of the nearly 600 research, development and clinical staff members on our team. To meet the challenge of providing new therapeutic agents, we will be significantly increasing our RED staff by the turn of the century. We are currently seeking candidates in the following areas:

- IT
- Biochemistry
- Chemistry
- Biology
- Drug Metabolism Analytical Science
- Genetics and/or
  - Biotechnology

### Technical Operations

Our Production Technologies Department works in conjunction with R&D groups in the development of both branded products and generic products. The department is responsible for various scale-up and technology transfer activities and has involvement with both drug substance and drug product. We currently have opportunities for candidates in the following positions:

- Process Engineers
- Packaging Engineers
- Validation Engineers
- Manufacturing Engineers Area Engineers

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The vision and expertise of OSI Pharmaceuticals' employees have evolved into a strong pipeline of products that will make a significant long-term difference in the treatment of life-altering diseases. We are a leading drug discovery company, with a substantial portfolio of product opportunities for commercialization with the pharmaceutical industry. OSI's research programs are focused in the areas of cancer therapeutics, respiratory diseases, diabetes, and cosmeceuticals. OSI utilizes a comprehensive drug discovery and development capability to facilitate the rapid and cost-effective discovery and development of novel, small molecule compounds against more than 40 gene targets. To enhance our efforts in this direction, we currently have positions open in our Tarrytown, NY facility.

OSI's growth stems from a partnering strategy within employee relationships. By blending the unique abilities of each research team member into a powerful creative force, we can make a true impact on healthcare worldwide, and fast-track professional development for those who join us. If you're looking for a company that welcomes fresh ideas and new perspectives, you just might be our newest associate.

### BIOINFORMATICS

Job Code-BO

### **Database Administrator**

Individual will maintain operation of Oracle databases used for screening; train users; implement Oracle upgrades; fix software bugs; make changes to tables as required; migrate data to new database; and integrate database tools from commercial vendors. A minimum of a BA is required along with experience in Oracle 7 & Oracle 8 database administration. Familiarity with server-side Java &/or PL/SQL. Experience in the biotechnology or pharmaceutical industry is a plus. Familiarity with high-throughput screening databases &/or compound inventory databases a plus.

### **Bioinformatics Programmer I**

We are looking for an individual to do a variety of bioinformatics research, using a variety of search tools to analyze human sequence data. Industry experience in bioinformatics or biology background with strong computer skills required.

### FUNCTIONAL GENOMICS

Job Code-BB

### **Senior Research Scientist**

Seeking an innovative scientist with a Ph.D. and 2-5 years postdoctoral training to direct mammalian-based GPCR assay development for use by our orphan GPCR project. Expertise in numerous functional assays to detect secondary messengers of GPCR signaling is strongly desired. Scientists with a background in neuroscience will be preferentially considered.

### **Research Associates**

Seeking BS/MS Scientists to contribute to the exciting challenge of identifying ligands for orphan G protein-coupled receptors (GPCRs). The duties include, but are not limited to, receptor cloning, screening for novel ligands, and functional characterization of novel receptor/ligand pairs. Experience in mammalian tissue culture and recombinant DNA techniques including RT-PCR is strongly desired.

### DIABETES

Job Code-NB

### **Research Associate**

Primary responsibilities will include assay development and therapeutic target validation for diabetes program using biochemical, molecular, and cell biology approaches. Requires MS degree in biochemistry or related discipline with 2 years of lab experience. Must have working knowledge of mammalian tissue culture, recombinant DNA techniques as well as protein biochemistry and/or cell biology. Experience with signal transduction a plus.

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resumes (indicate position of interest) to: Human Resources, OSI Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, New York, 10591; Fax (914) 345-3565; e-mail: employment@osip.com. EOE M/F/D/V.



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"You have to be able to speak up for yourself, which is difficult for a nontraditional scientist. And you have to tolerate being in a group largely dominated by white males. If that bothers you, you have a problem."

nals, including *Science*. You can imagine the excitement when an undergraduate gets the first copy of a journal containing his or her paper."

How does the university identify minority students with potential as scientists? "By connecting with high schools, working with national agencies such as the National Institutes of Health, the National Science Foundation, and the National Aeronautics and Space Administration that have connections," says Hrabowski. "We have also worked with a variety of foundations."

Having spotted promising prospects, UMBC often finds itself in competition with Ivy League colleges and other prestigious universities to attract them. The university makes its case by example. "We have a special weekend during which we look at students, check the fire in their belly, give them advice, and monitor their interest in going on to graduate study," Hrabowski says. "We put the African Americans together to meet juniors and seniors like them who are publishing in refereed journals and preparing to go to the best graduate schools in the country. We make sure that students talk about grades, test scores, and summer research experiences. The high schoolers see safety in numbers and the excitement of being the best. It's very important for the very smart, highachieving students to see students as smart as they are, if not smarter."

Prospective students, in turn, have to demonstrate their dedication to science. "This is a place for very serious students," Hrabowski asserts. "We give preference to those who want to do Ph.D.s and M.D.-Ph.D.s after graduating. We're looking for students already turned on to science. We aim to make sure that they don't get turned off."

The university seems to be reaching its goal. Hrabowski (who has a Ph.D. in education and statistics) and two colleagues recently studied the relative performances of students in the Meyerhoff program and those invited to the program who went to other universities. They report in the *Journal of Research in Science Teaching* that, in addition to earning high GPAs, the UMBC students were nearly twice as likely as their peers to earn a degree in science and twice as likely to go on to graduate or professional school.



**NEW HAVEN, CONNECTICUT:** Elga Wasserman played a large role in encouraging diversity in academic life when she moved from the research laboratory to the administration at Yale University. As the special assistant for women, she took responsibility for integrating undergraduate women into the university.

ELGA WASSERMAN

Two decades later, during which time she has obtained a law degree to go with her Ph.D. in

chemistry, Wasserman has published a book on high-achieving women in the scientific world. *The Door in the Dream: Conversations with Eminent Women in Science* (Joseph Henry Press of the National Academy of Sciences, Washington, D.C., 2000) features Wasserman's interviews with women elected to the National Academy of Sciences. Her subjects' experiences offer lessons for women and minorities trying to reach the top in academe and corporate life today.

"Women who have reached the very highest level, particularly in academe, are passionate, persistent, and focused," says Wasserman. "They love what they do and, very important, they are optimistic. They are inner directed, nonconventional, and energetic. They don't spend emotional energy worrying about negative messages or about being the only woman in a lab. They all emphasize luck; luck plays a role in the research you do, in who's going to be your boss, and in the grant money available to you."

What advice do the prominent women scientists give to those women and minority members who would follow in their footsteps? "Try to be really clear what you love about science and what you want for yourself and your family. Analyze who you are, what your talents are, and what you want," says Wasserman. Having decided that, you need some grit to progress in science. "You have to be able to speak up for yourself, which is difficult for a nontraditional scientist—that is, a woman. And you have to tolerate being in a group largely dominated by white males," she continues. "If that bothers you, you have a problem."

As an illustration, Wasserman quotes one young tenured professor who discovered that she earned less than newly hired male teaching assistants. "I became painfully convinced that if I did not speak up for myself and was not tough enough and aggressive in return, I would not survive in the scientific/academic world dominated by aggressive males," she told Wasserman.

Today, women and minorities have a far wider choice of positions than they used to. The scientists interviewed by Wasserman advised students to ensure that they select organizations in which they will be comfortable. "Look at the place you're going very carefully," she says. "See if there are other women or minorities there. Talk to them and ask if they are happy. The fact that an organization might hire a lot of women is not necessarily enough. It may simply have a revolving door. You need to find out the opportunities for advancement and the number of women and minorities at the top."

Nontraditional scientists offered jobs in universities or companies should also check the environment for mentoring. "Talk to people about the amount of mentoring they get," Wasserman recommends. "Be selective about the advice you get. The people who make it follow the good advice and reject the bad." **##** 

### **EXCITING OPPORTUNITIES**

RESEARCH ASSISTANTS POSTDOCTORAL FELLOWS SCIENTISTS



Cytoclonal Pharmaceutics, Inc. is a biopharmaceutical company specializing in the development of therapeutic products for human diseases with an emphasis on the treatment and prevention of cancer and CNS, infectious, and inherited diseases. Developmental activities include our proprietary paclitaxel (active ingredient in Taxol<sup>®</sup>) production system using fermentation and genetic engineering in agreements with Bristol-Myers Squibb; the treatment of polycystic kidney disease using paclitaxel; Quantum Core Technology<sup>TM</sup>, our proprietary rational drug design targeting proteins of the human genome; OASIS<sup>TM</sup>, our optimized antisense library for regulating genes for therapeutics and functional genomics; and bioprocess engineering of therapeutic human proteins.

### SEEKING OUTSTANDING CANDIDATES

- Candidates for <u>Research Assistants</u> should have a BS/MS degree in Biology/Biochemistry, Microbiology, Molecular Biology, or Chemistry.
- Candidates for <u>Postdoctoral Fellows</u> should have a Ph.D. in Biochemistry, Molecular Biology, or Organic Chemistry.
- Candidates for <u>Scientists</u> should have a Ph.D. in Biochemistry, Molecular Biology, or Organic Chemistry and at least two years of experience as a Postdoctoral Fellow.

Preference is given for candidates with experience in upstream and downstream bioprocessing of eukaryotic cell production systems, protein characterization, molecular and cellular cloning techniques, medicinal chemistry, drug design, and physical organic chemistry.

A successful application will require the submission of all of the following: a curriculum vitae, names of three references, and academic transcripts. All materials should be e-mailed to *kcoleman@cytoclonal.com* or mailed to: Cytoclonal Pharmaceutics, Human Resources, 9000 Harry Hines Blvd., Suite 456, Dallas, Texas 75235.

NASDAQ: CYPH Web Address: www.cytoclonal.com



The Donald Danforth Plant Science Center In St. Louis, Missouri Announces Opportunities for Faculty Positions in Plant Biology

DONALD DANFORTH PLANT SCIENCE CENTER

The Donald Danforth Plant Science Center announces positions for faculty at the Full, Associate and Assistant Member levels to direct fundamental research programs. We seek scientists with broad interests and training in at least two scientific disciplines and well-formed research programs that will benefit from interactions with scientists of other disciplines. Demonstration of prior or current support, and of interdisciplinary research will be beneficial. Up to 10 faculty appointments will be made in the areas that include molecular physiology, biochemistry, phytochemistry/neutriceuticals, genetics, cell biology, gene regulation, root-soil interactions, molecular plant pathology, and abiotic stress biology. Successful candidates are expected to develop collaborative research programs within the Danforth Center and/or with scientists at partner institutions.

Please send your resume, brief description of research interests, reprints of three key publications, and names of three potential references. Applications will be received until positions are filled. Visit our website, www.danforthcenter.org for a description of the Danforth Center, including mission statement, current faculty, and partnering institutions.

Send resumes to: Ms. Billie Broeker, Human Resources, Donald Danforth Plant Science Center, 7425 Forsyth Blvd., Campus Box 1098, St. Louis, Missouri 63105

The Donald Danforth Plant Science Center is an equal opportunity/ affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.



PLANT SCIENCE CENTER

The Donald Danforth Plant Science Center is soliciting applications for a Ph.D. level scientist to manage a small staff in a multi-dimensional facility with responsibility for separation and analysis of proteins, peptides and small molecules. The successful candidate will maintain a modest research program. Previous experience in plant biology not required, but future participation essential. Emphasis is placed on interdisciplinary research and willingness to tackle cutting edge problems. Visit our website, www.danforthcenter.org for a description of the Danforth Center, mission statement, current faculty, etc.

Please send your current curriculum vitae and four letters of reference to:

Ms. Billie Broeker Human Resources Donald Danforth Plant Science Center 7425 Forsyth Boulevard Campus Box 1098, St. Louis, Missouri 63105

The Donald Danforth Plant Science Center is an equal opportunity/affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.

### CHAIR IN STROKE BRAIN RESEARCH CENTRE

The Brain Research Centre of The University of British Columbia and Vancouver Hospital and Health Sciences Centre invite applications for the **Heart and Stroke Foundation of BC and Yukon Chair in Stroke Research**. We are seeking an individual with a PhD and/or MD at a senior level who has attained international recognition as a leader in the area of stroke investigation. The successful candidate would be expected to maintain a world-class research program, and play an active role in the development of an outstanding stroke program at the Brain Research Centre. Individuals working on animal or cellular models of stroke with a focus in neuroprotection and/or promotion of functional recovery are especially encouraged to apply.

The successful applicant is expected to hold a full-time (tenure) appointment at the rank of Associate Professor or Professor at The University of British Columbia. The anticipated start date is September 2001. Salary will be commensurate with experience. The Brain Research Centre hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, we especially encourage Canadian citizens and permanent residents of Canada to apply. Applicants should send a curriculum vitae, samples of their scholarly work, and the names and address of three referees prior to January 15, 2001 to: Dr. Max S. Cynader, Director, Brain Research Centre, The University of British Columbia, and Vancouver Hospital and Health Sciences Centre. 2211 Wesbrook Mall Vancouver, BC V6T 2B5 Canada. Fax: (604) 822-0361 E-mail: cynader@brain.ubc.ca







### ASSISTANT PROFESSOR DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology at the University of Georgia invites applications for a tenure-track Assistant Professor faculty position in cellular/molecular aspects of microbial physiology or microbial pathogenesis. Qualifications for this position include a doctoral degree and a minimum of two years of postdoctoral experience, a superior record of research productivity, and a commitment to excellence in classroom instruction. Responsibilities will include the development of a strong, independent, externally funded program of research and graduate training, as well as teaching in undergraduate and graduate level courses within the Department. Salary will be commensurate with qualifications and experience. Applicants should submit a curriculum vitae and statement of research and teaching interests and should have at least three letters of reference sent prior to the closing deadline. All applications must be received by January 10, 2001. The target date for filling this position is August 15, 2001. Submit applications to: Search Committee, Department of Microbiology, The University of Georgia, Athens, GA 30602-2605. The University of Georgia is an AA/EEO institution. Women and minorities are especially encouraged to apply.

# U Life Sciences outstanding Training at Missouri

### Outstanding Training for Careers in Science

Interdisciplinary collaboration is the cornerstone of life sciences research at the University of Missouri-Columbia (MU). Our research credentials are outstanding: MU is one of only 31 public universities selected for membership in the Association

of American Universities and is also designated a Research University I by the Carnegie Foundation. Your doctoral training at MU will include coursework at the frontier of science taught by leaders in the field, who also serve as mentors for doctoral research.

Research facilities at MU support centralized services for protein purification and sequencing, peptide synthesis and recombinant protein expression; automated DNA sequencing and DNA microarraying; monoclonal antibody production and cell sorting; transgenic mice; transgenic plants; confocal and deconvolution microscopy and image processing; scanning and transmission electron microscopy, x-ray crystallography and NMR spectroscopy. The campus is also home to the nation's largest university research reactor. **And**, MU will soon break ground for the construction of a 200,000 square foot, \$60 million Life Sciences Center designed for state-of-the-art interdisciplinary research.

### Commitment to Student Success

Doctoral student Jeamelia Davis says it best: "I chose MU because the facultystudent interactions seem so relaxed. The faculty members that I talked to seemed really interested in keeping



me in the degree program, not just accepting me. It is important to attend a university that has its students' best interests at heart."

### A Great Place to Live . . .

MU is located in the center of the I-70 corridor through Missouri — just 2 hours from both Kansas City and St. Louis. Columbia is a vibrant, well-educated community of diverse cultures and is consistently ranked as one of the nation's most livable cities. Missouri is a beautiful state, with recreational opportunities including the sophistication of big cities, the charm of small towns, and outdoor favorites — hiking and biking trails, lush forests, and the clear waters of the Ozark National Scenic Riverways.

<sup>\*</sup> Ribbon drawing of human N-TIMP-1 (PDB code 1d2b) inhibitor of angiogenesis and inhibitor of tumor growth. *Courtesy of Steven Van Doren, MU Dept. of Biochemistry. Published in the Journal of Molecular Biology. January 14, 2000, Vol. 295:257-268.* 

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**Terry Morris** Doctoral Fellow in Molecular Microbiology & Immunology

### **Fellowships and Degree Programs**

Doctoral degrees are offered in over 30 life science-related departments at MU. A variety of fellowship programs are available which include a competitive stipend, tuition waiver and health insurance.

 $\label{eq:Life Science Fellowships} \mbox{--} Students can be nominated for this award by the department to which they apply.$ 

Web: http://www.research.missouri.edu/web\_research/lsme

Missouri's Alliance for Graduate Education and the Professoriate — Fellowships for underrepresented minority students pursuing academic careers. Web: http://web.missouri.edu/~gradschl/magep/index.htm

Molecular Biology Program Fellowships — You can apply for admission to a variety of life sciences departments with the MBP fellowship application. Web: http://www.biotech.missouri.edu/mbp • Phone toll free: (877) Gene-PhD (436-3743)

NIH Minority Biomedical Researchers Training Initiative — Awards for underrepresented minority students to train as future researchers in biomedical sciences. Web: http://web.missouri.edu/~gradschl/financial/mbrti/mbrti.htm • Phone: (573) 882-4397

**Departmental fellowships** — A sampling of life science degree programs and contact information can be found below *(several of these departments also have NIH Training Grants)*. For information about other departments and general campus information, visit the MU homepage at http://www.missouri.edu. The **MU Minorities in Science** website is also a great resource at http://www.biotech.missouri.edu/mbp/minority.

### Biochemistry

Web: http://www.biochem.missouri.edu • Phone toll free: (800) 647-2414 Biological Sciences

Web: http://www.biology.missouri.edu • Phone toll free: (800) 553-5698 Genetics Area Program

Web: http://www.biotech.missouri.edu/genetics • Phone toll free: (877) Gene-PhD (436-3743)

Molecular Microbiology & Immunology Web: http://www.missouri.edu/~mmiwww • Phone: (573) 882-8152 Pharmacology

Web: http://www.muhealth.org/~pharmacology • Phone: (573) 882-7188 Veterinary Pathobiology

Web: http://www.cvm.missouri.edu/vpbio/index.html • Phone: (573) 882-6628

It is important to attend a university that has its students' BEST INTERESTS AT HEART." Jeamelia Davis Doctoral Fellow in Biological Sciences

### Food and Drug Administration Senior Advisor for Clinical Science

The Food and Drug Administration (FDA) is seeking candidates for the position of the Senior Advisor for Clinical Science. This position will be filled as either a Senior Executive Service, Senior Biomedical Research Service, Title 38 or 42 appointment, or Commissioned Corps position. The incumbent serves as the primary advisor to the Commissioner, Deputy Commissioner, and Senior Advisor for Science on the development of an Office of Clinical Science. The incumbent will recommend policy related to the conduct of human clinical studies, including those that are submitted to FDA in support of product submission as well as human studies funded by and/or conducted by FDA employees. The incumbent will coordinate the Institutional Review Board (IRB) and other human subject protection activities across the Agency such as the development of IRB registry and certification and accreditation efforts, and other duties associated with clinical science and research. Candidates must have an M.D. degree from an approved medical school and experience with clinical trials, IRBs, or other human studies. The position is located in Rockville, MD. The salary range is from \$84,638 to negotiable. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Ms. Arlene Karr at 301-827-4183 or from the Office of Personnel Management website at www.usajobs.opm.gov. Submit applications by December 15, 2000 to:

Ms. Arlene Karr Office of Human Resources and Management Services Food and Drug Administration Room 7B-32, HFA-408 Parklawn Building 5600 Fishers Lane Rockville, MD 20857

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# **DEPARTMENT OF Pharmacology**

### Professorship in Behavioral Pharmacology

Professorship in Pharmacology at the University of California, San Francisco. The Ernest Gallo Clinic and Research Center, a biomedical facility affiliated with the Department of Neurology at UCSF, is undergoing substantial growth and expansion. We seek applicants with an MD or PhD with outstanding abilities in behavioral pharmacology for a Senior tenured position to help in our search for new therapeutics to treat alcoholism and addiction. Applicants with strong research experience to will be considered. There will be concurrent appointments in the Department of Neurology, the Ernest Gallo Clinic and Research Center, and the program in Neuroscience. Joint appointments in other Departments or Programs as may be appropriate. The successful applicant should have an interest in alcoholism and addition. For further information visit our web site at: http://www.egcrc.org. Please send curriculum vitae and three letters of recommendations to:

Howard Fields, M.D., Ph.D. Professor and Vice-Chair Department of Neurology Box 0453 University of California San Francisco, CA 94143 Email: hlf@itsa.ucsf.edu



The Ernest Gallo Clinic & Research Center at UCSF

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### POSTDOCTORAL FELLOW OPPORTUNITIES

TES

**THISNI** 

GLADSTONE

The Gladstone Institutes is a biomedical research organization affiliated with the University of California, San Francisco. Currently, more than 100 research scientists and postdoctoral fellows are performing basic studies in cardiovascular disease, HIV/AIDS, and neurodegenerative disorders.

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Candidates should possess Ph.D., M.D., or both. Please send cover letter, curriculum vitae, and 3 references to:

The J. David Gladstone Institutes Postdoctoral Opportunities P.O. Box 419100 San Francisco, California 94141-9100 Email: postdoc@gladstone.ucsf.edu

The Gladstone Institutes is an affirmative action/equal opportunity employer.



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### REGULATORY REVIEW PHARMACOLOGIST/TOXICOLOGIST •

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### FOOD AND DRUG ADMINISTRATION MPN I, 7520 Standish Place, Room 211 Rockville, Maryland 20855 Attn: CDER Recruitment

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## Brown University

### **Positions Open**



### **Division of Biology and Medicine**

The Division of Biology and Medicine announces a new interdepartmental strategic initiative in the area of genetics and genomics. The objective of this initiative is to spearhead research in contemporary molecular genetics and to coordinate multidisciplinary approaches in molecular genetics with programs in clinical and human genetics at affiliated hospitals. A significant funding base is in place and will be used to establish and upgrade core facilities, including a Transgenic Mouse and Knockout Core, a Genomics and Bioinformatics Core and a Microscopy Imaging Core. In addition to building research infrastructure, interdisciplinary projects in several areas including Cancer Biology, Computational Genomics, Immunology, Neuroscience and Pharmacology are being implemented. New initiatives in undergraduate, graduate and medical education are also under development, as well as a significant strengthening of existing ties between the biological sciences, computer science and applied mathematics. The creation of positions at several levels, including postdoctoral, research associate and faculty is anticipated. Additional information can be obtained from: John M. Sedivy, Ph.D. c/o Ms. Tammy Glass, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University Box G-J223, Providence, RI 02912, or at the web site: www.brown.edu/Research/Genetics\_Genomics.

### Division of Biology and Medicine Molecular Genetics Assistant, Associate or Full Professor

The Department of Molecular Biology, Cell Biology and Biochemistry announces the opening of a tenure-track/tenured faculty position in Molecular Genetics to be appointed July 1, 2001. The appointment may be made at the level of Assistant, Associate or Full Professor depending on the qualifications of the candidate selected.

Qualifications include a Ph.D., M.D., or equivalent degree and a demonstrated track record of excellence in research, including significant external funding for applicants at a senior level. The applicant will be expected to pursue an independent externally funded research program emphasizing molecular genetic approaches to the study of contemporary biological problems. We especially welcome applications from individuals using transgenic mice. The successful applicant must be qualified to be an active participant in the NIH-funded predoctoral training program in Molecular Biology, Cell Biology and Biochemistry; in the teaching of departmental graduate and undergraduate courses; and in a well funded strategic initiative in genetics and genomics.

The Search Committee will give full consideration to applications received by January 1, 2001 that include a curriculum vitae, description of research interests, and at least three letters of reference (five for a senior level appointment). Reference letters should be mailed under separate cover. Application materials should be sent to: Professor Arthur Landy, Molecular Geneticist Search Committee Chair, c/o Ms. Joan Boyles, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University, Box G-J360, Providence, RI 02912.

### Division of Biology and Medicine Genomics/Proteomics/Computational Biology Assistant Professor

The Department of Molecular Biology, Cell Biology and Biochemistry announces the opening of a tenure-track assistant professor faculty position in Genomics/Proteomics/Computational Biology to begin July 1, 2001.

Qualifications include a Ph.D., M.D. or equivalent degree and a demonstrated track record of excellence in research. The applicant will pursue an independent, externally-funded research program emphasizing genomic/proteomic approaches to the study of contemporary biological problems. The successful applicant must be qualified to be an active participant in a new strategic initiative in genetics and genomics with ties to computer science and applied mathematics; in the NIH-funded predoctoral training program in Molecular Biology, Cell Biology and Biochemistry; and in graduate and undergraduate teaching, including the degree program in computational biology.

The Search Committee will give full consideration to applications received by January 15, 2001 that include a curriculum vitae, description of research interests, and at least three letters of reference (sent under separate cover). Application materials should be sent to: Dr. David Rand, Genomics/Computational Biology Search Committee Chair, c/o Ms. Elaine Butler, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University Box G-J364B, Providence, RI 02912.

### Division of Applied Mathematics Mathematical/Computational Biology Assistant Professor

The Division of Applied Mathematics seeks applicants for a tenure-track appointment at the Assistant Professor level in the area of Mathematical/Computational Biology. Candidates should have a Ph.D. in the Mathematical or Computer Sciences and research interests and expertise in applications to Biology. Preference will be given to applicants whose mathematical training is in an area related to one of the research areas represented by the current faculty of the Division.

Candidates should submit curriculum vitae, representative preprints or reprints, and a concise description of research interests and goals to: Mathematical/Computational Biology Search Committee, Division of Applied Mathematics, Brown University, Box F-Attention Janice D'Amico, Providence, Rhode Island 02912.

Additionally, candidates should arrange to have at least three letters of recommendation sent directly to the Search Committee at this same address. To receive full consideration, complete applications should be received by January 15, 2001.

Brown University is an EEO/AA Employer and invites applications from women and minorities.

### Product Line Manager High-Throughput Cellular Imaging

Axon Instruments is seeking a motivated and enthusiastic Product Line Manager for our high-throughput cellular imaging program. This is an exciting opportunity to participate in the development of a series of fully automated epi-fluorescence microscopy systems for the drug discovery market.

Educational requirements include a MS or Ph.D. in cell biology, physiology, pharmacology or related field with at least 3 years' postdoctoral work with a research emphasis on cellular imaging, preferably utilizing fluorescence microscopy. Industrial experience, preferably managing imaging product development for drug discovery, is also a requirement. The successful candidate will report to the Vice President for Screening Technologies and will interact extensively with hardware and software engineering teams, our scientific applications group and academic and industrial consultants.

Due to our tremendous growth, Axon Instruments is relocating to Union City in March 2001. In addition to a competitive salary & benefits package, Axon offers a technologically innovative, team-oriented work environment, and an excellent opportunity for professional growth. Please forward resumes to: **AXON INSTRUMENTS, HR, Attn: Job# S1117-PLM, 1101 Chess Drive, Foster City, CA 94404; FAX: (650) 286-6286; email: jobs@axon.com. (MS Word attachments only).** No calls please. EOE/AA





### POST DOCTORAL OPPORTUNITIES in Molecular Immunology

Two positions are currently available within the Dept. of Microbiology & Immunology at our leading medical college. These are exceptional opportunities to be involved in the study of:

### **POSITION ONE:**

IL-12 gene regulation in dendritic cells by antigen and CD40/CD40L.

### POSITION TWO:

IL-12 induced naïve T helper cell differentiation by microarray analysis and in vitro and in vivo functional characterization of selected genes.

Interested individuals should forward CV along with contact information for three references to:

### DR. X. MA, Department of Microbiology & Immunology WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY

1300 York Avenue, Box 62 New York, NY 10021 Email:

xim2002@med.cornell.edu FAX: [212] 746-4427 EEO/AA/M/F/D/V



www.med.cornell.edu/jobs

### Somatosensory Neuroscientist

The John B. Pierce Laboratory, an independent, endowed research institute affiliated with Yale University, seeks an outstanding junior or midlevel sensory scientist with a research program in somatosensory systems, preferably in central nervous system physiology.

The Laboratory offers competitive salary, benefits, and start-up, as well as an outstanding work environment. Joint appointment is anticipated in the Department of Neurobiology, Yale University School of Medicine.

Applicants should submit a CV and description of research interests, along with representative publications and the names of three references, to

Search Committee Chair The John B. Pierce Laboratory Inc. 290 Congress Avenue New Haven, CT 06519 www.jbpierce.org

EOE

### Executive Director Susan Samueli Center for Complementary and Alternative Medicine University of California, Irvine, College of Medicine

The University of California, Irvine, College of Medicine is seeking an individual with demonstrated administrative and scientific accomplishment to be Executive Director of its new Susan Samueli Center for Complementary and Alternative Medicine. The Director will assume the major intellectual leadership position in the Center. A successful candidate should have an internationally recognized research program and a track record of peer reviewed funding, preferably from the NIH or DVA, along with a history of leading research efforts that bridge bench and clinical sciences in a multidisciplinary approach. The Director will be expected to maintain an active research program and recruit additional junior faculty for a research and a data analysis unit; conference and curriculum development and teaching will also be required. Substantial resources including an endowment are available to support this initiative. Priority will be given to an applicant who can relate integrative research to clinical problems, specifically in the area of complementary and alternative medicine. The position of Director is at the rank of Associate or Full Professor in the Department of Medicine or Department of Family Medicine. Salary and benefits will be determined commensurate with background and experience.

The Susan Samueli Center for Complementary and Alternative Medicine investigates the efficacy of various therapeutic modalities considered to be a part of complementary and alternative medicine, including herbs and homeopathic medicine, as they relate to areas such as cardiovascular health, autoimmune diseases, neuromuscular health, cancer treatment and prevention, menopause and aging. Acupuncture as a therapeutic modality is a focus of study at the Center. Additionally, the Center educates new physicians and the community to understand and evaluate complementary and alternative therapies and serves as a science-based resource for medical professionals and alternative practitioners.

Qualifications for the position of Director include M.D. or M.D./Ph.D., strong academic background of research and teaching in an academic medical center, at least five years experience in academic administration, demonstrated success in administering multidisciplinary programs in a complex organizational environment, evidence of superior communication skills, proven ability to establish effective partnerships across organizational divisions and campus locations, experience working effectively with advisory boards, demonstrated commitment to collaboration and cooperation, strong scientific background rooted in the NIH both as grant recipient and as study section reviewer, and expertise and experience with complementary and alternative medicine including understanding of the importance of integrating science-based knowledge of alternative therapies with traditional medicine.

Interested parties should send a resume and names and addresses of three references to: Beth Tjoflat, Managing Director, Susan Samueli Center for Complementary and Alternative Medicine, UCI-COM, Theory Building, Irvine, CA 92697. The University of California is an Equal Opportunity Employer, committed to excellence through diversity.

# Many Perspectives – One Uncompromising Commitment



Internationally renowned, **St. Jude Children's Research Hospital**, located in Memphis, Tennessee, fosters the unique insights of its many researchers to strive for one common goal: the eradication of catastrophic diseases in children. Focusing on biomedical research, researchers at St. Jude seek to interpret the molecular causes of disease, improve diagnosis and treatment, minimize immediate and long-term side effects, and to ultimately find a cure for those diseases.

We are a state-of-the-art institution offering a diverse intellectual atmosphere that promotes ongoing education, training and professional growth opportunities. St. Jude emphasizes both discipline-based intradepartmental research and interdepartmental thematic and disease oriented programs.

We have recently embarked on a series of expansion strategies spanning the next five years and totaling \$1 billion. These exciting and progressive programs will build on our existing strengths while further enhancing our lifesaving research activities. Because the success of future biomedical research depends on the availability of well-trained investigators and staff researchers, St. Jude is actively pursuing candidates with the skills and ambition necessary to push the limits of science.

Candidates with an interest in either a Postdoctoral Fellowship opportunity or Research Staff career, are encouraged to visit our website for detailed information.



An equal opportunity employer. Photo courtesy of St. Jude Biomedical Communications Department.

### Research Scientist

# Discover Merck.

### Employment opportunities in NJ

**Merck Research Laboratories**, a world leader in Biological and Pharmaceutical Research, attracts scientists who are on the cutting edge of modern biomedical, genetic, chemical, and scientific discoveries and have an unwavering dedication to research. We are currently seeking a Research Scientist for our **Rahway**, **NJ** location.

### **Research Scientist**

In this position you will develop, implement, and carry out biochemical and functional assays for the identification of novel agents which act as receptor antagonists and/or inhibitors to other relevant proteins. This includes the cloning of receptors and/or other relevant proteins, their expression in mammalian cells, their pharmacological characterization, and the evaluation of novel small molecular weight compounds. The ultimate goal is to determine the pharmacological effects of these compounds in primary cells and/or tissues and in animal models in order to identify compounds suitable for clinical development.

To qualify, you must possess a B.S./M.S. degree or equivalent in Biochemistry, Molecular Biology, or a related field and a minimum of 3 years' full-time laboratory experience in one or more of these areas. The successful candidate will have experience in a broad range of molecular biological techniques, including mRNA and DNA isolation, cDNA/genomic cloning, PCR, and expression of exogenous proteins in both prokaryotic and eukaryotic cells. The ability to purify recombinant proteins and computer skills related to DNA/protein sequence analysis are highly desirable. In addition, preference will be given to individuals who have experience in receptor biochemistry, signal transduction and/or enzymology. Candidates should be highly motivated, creative, and well organized, possess excellent communication skills, and work well in a

We offer an excellent salary and comprehensive benefits program, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for personal growth. Please submit your resume and a cover letter indicating salary requirements to: Merck Positions, PAF Code: XHXMRSMJP11170, P.O. Box 92164, Los Angeles, CA 9009-2164. E-mail: merck@resume.isearch.com Fax: (310) 337-3393. Only candidates considered for interviews will receive responses. No phone or agency calls please. We are an Equal Opportunity Employer, M/F/D/V.



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### PARADIGM:





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As a leader in functional genomics, Paradigm Genetics is industrializing the process of gene function determination for product development in four major sectors of the global economy: crop production, nutrition, human health, and industrial products. Our fusion of state-of-the-art science and leading-edge bioinformatics continues to give professionals like you a chance to shape a major multimillion dollar industry. You already possess the vision. You know you have the ability. And now you have the chance to contact us today.

### Manager/Research Leader-Plant Functional Genomics

This key position reports to the Director of Plant Research and directs a large and diverse group of researchers working in a high-throughput, functional genomics laboratory. A Ph.D. in Molecular Biology, Genetics or Biotechnology and extensive experience in the plant research area is required. At least 5 years of experience in a leadership position is preferred, and leadership experience within an industrial setting is an advantage. Responsibilities include coordinating efforts with business development and a willingness to take on broad corporate leadership activities throughout Paradigm Genetics. An excellent opportunity for growth and career development. Job Code: ScienceMag 178



Discover a compelling professional environment on the leading edge of technology—and the compensation you deserve—by sending your resume, referencing job code and salary history, to: **Paradigm Genetics, Human Resources, E-mail: resumes@paragen.com or apply on-line at www.paragen.com** No phone calls please. Principals only. EOE

Paradigm Genetics is industrializing the process of gene function determination for four major sectors of the global economy: nutrition, crop protection, industrial products, and human health.

### THE NATIONAL ACADEMIES

### The National Research Council announces opportunities for Postdoctoral Research in the NASA Astrobiology Institute

Postdoctoral research awards will be offered in the field of astrobiology at the NASA Astrobiology Institute. NASA has formed this new Institute to study the origin, distribution, evolution, and future of life on Earth and in the universe. Awards will be offered for multidisciplinary research in biology, genetics, chemistry, geology, planetary and space science, astronomy, paleontology, and other astrobiology-related areas. The awards will be for one year, possibly renewable, through the following lead institutions or their collaborators:

NASA Ames Research Center NASA Johnson Space Center NASA Jet Propulsion Laboratory Arizona State University University of California, Los Angeles University of Colorado, Boulder Harvard University Pennsylvania State University Carnegie Institution of Washington Marine Biological Laboratory Scripps Research Institute

 Stipend begins at \$45,000 per year;
 Application deadline is January 15
 For additional information and application materials, contact:

Dr. Robert Manka, Associate Director, or Ms. Sally Lytch, Program Coordinator Associateship Programs (TJ 2114/NAI) NATIONAL RESEARCH COUNCIL 2101 Constitution Ave NW Washington, DC 20418 E-mail: astrobio@nas.edu Internet: http://national-academies.org/rap Tel: (202) 334-2750 Fax: (202) 334-2759

Dr. Baruch S. Blumberg, Director, or Ms. Catherine Tsairides, Education Coord. NASA Astrobiology Institute MS 240-1

 NASA Ames
 Research Center

 Moffett Field, CA
 94035-1000

 E-mail:
 ctsairides@mail.arc.nasa.gov

 Internet:
 http://nai.arc.nasa.gov

 Tel:
 (650) 604-0809

 Fax:
 (650) 604-4251

Qualified applicants will be reviewed without regard to race, creed, color, age, sex or national origin.

### THE SCIENCE OF LIFE!

We provide the world's leading technology and information solutions to help scientists understand the logic of biology. From instrument systems to reagents and software, Applied Biosystems enables science for life. We currently have the following opportunity available:

### Senior Bioinformatics Developer Synthesis and Arrays - R&D Req. # 00-001766

You will be part of a R&D group developing high-throughput expression/ gene genotyping assays based on the latest genomic content and novel microarray technologies. As a member of the Bioinformatics team, you will develop algorithms and software for assay design on the basis of DNA/RNA sequence composition, genomic annotations, and thermodynamic and structural considerations. By analysis and mining of the data obtained by the experimental researchers, the candidate will develop mathematical models and formulate heuristic rules to improve the design pipelines. Furthermore, your software development skills would enable you to move efficiently from prototypes to streamlined production systems.

This position requires a M.S./Ph.D. in Bioinformatics, Molecular Biology, Computer Science, or related field, and 2-6 years of experience in computational biology projects. To qualify, the candidate must have demonstrated computer skills including Java, C++, or C programming, and Perl/Phyton scripting in a UNIX/NT environment. An excellent understanding of genomic databases and an appreciation of the use of statistical and mathematical models in the interpretation of biological data is necessary. Previous industry position, excellent communication and organization skills, experience with sequence analysis tools, and database integration skills with ORACLE, XML, middleware or application servers, is a plus.

In exchange for your talents, we offer a competitive salary and an excellent benefits package with advancement potential for your career. For consideration, please submit your resume through the PE Corporation online application website at the following URL: http://careers.pecorporation.com/ or email: appliedbio@resume.isearch.com Or send your resume, referencing job number, to Applied Biosystems, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. Applied Biosystems, a business of the PE Corporation, is an equal opportunity employer.



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Structural Genomics Consortium

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Are you seeking Excitement and Challenge in your next career move? Your search is over!

LEINER HEALTH PRODUCTS, INC is a leading manufacturer of vitamins and nutritional supplements and a major manufacturer of private-label over-the-counter (OTC) pharmaceuticals. We are headquartered in Carson, California and are seeking the following professional:

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In this leadership role, you will oversee our corporate quality control functions, our corporate laboratories and our microbiology programs. You will act as the liaison with senior management, vendors and customers. To qualify, you must be an adept communicator with an MA/MS (prefer a PhD) in Pharmaceuticals, Chemistry or a related field and an SQC in Lab Management or a similar certification. At least 10 years of pharmaceutical laboratory experience, including proven success in a management role, is essential. You must have knowledge of GMPs, GLPs and laboratory equipment such as HPLC, GC, FTIR, AA, ICP-MS and NIR. The ability to utilize computers with knowledge of MS Office applications and an MRP system is also key.

LEINER HEALTH PRODUCTS, INC offers excellent benefits with a dynamic work environment. Relocation assistance provided. Qualified candidates please send your resume and salary history to: LEINER HEALTH PRODUCTS, INC, Attn: Anna Peterman/QC, 901 E. 233rd Street, Carson, CA 90745 or E-mail to: apeterma@leiner.com or Fax to: 310-952-8606. PRINCIPALS ONLY, NO THIRD PARTIES.

LEINER HEALTH PRODUCTS, INC is an AA/Equal Opportunity Employer.

### The TB Structural Genomics Consortium announces positions available world-wide for Structural Genomics of *M. Tuberculosis*

The TB Structural Genomics Consortium is an international consortium dedicated to the largescale determination of structures of proteins from M. tuberculosis. The Consortium hopes to help develop a fundamental understanding of the biology of this organism and to allow development of anti-TB therapeutic compounds. The Consortium has major funding from the U.S. National Institutes of Health as a Center for pilot projects in Structural Genomics (see http://www.nigms.nih.gov/news/releases/SGpilots.html). The Consortium has a philosophy of openness, sharing and early public release of data. It is developing high-throughput facilities for protein expression and engineering, purification, crystallization, and synchrotron X-ray data collection that will act as resources for the Consortium.

The TB Structural Genomics Consortium now has openings for technicians, students, and postdoctoral researchers at many of the 24 institutions in 8 countries represented by the Consortium. The job openings are posted on the Consortium web site listed below along with contacts at the individual institutions. EOE.

### For details about job opportunities and for information on the Consortium see www.doembi.ucla.edu/TB.

The TB Structural Genomics Consortium: Thomas Alber, James Berger, University of California, Berkeley; Edward N. Baker, University of Auckland; Joel Berendzen, Min Park, Tom Terwilliger, Geoffrey Waldo, Los Alamos National Laboratory; James Bowie, David Eisenberg, Juli Feigon, Jeanne Perry, Todd Yeates, UCLA; Axel Brunger, Paul Adams, Lawrence Berkeley National Laboratory; William Jacobs, Albert Einstein College of Medicine; Bernhard Rupp, Lawrence Livermore National Laboratory; James Sacchettini, Texas A&M University; Se Won Suh, Seoul National University; Manfred Weiss, Institute of Molecular Biology, Jena; Matthias Wilmans, Paul Tucker, Ehmke Pohl, Victor Lamzin, EMBL-Hamburg; William Wood, University of Colorado, Boulder; Shigeyuki Yokoyama, RIKEN; Janet Thornton, Paul Driscoll, Neil Stoker, University College, London; Nick Keep, Birkbeck College; Brian Robertson, Imperial College; Guy Dodson, David Roper, University of York; Charles Carter, University of Nonth Carolina, Chapel Hill; Katherine Kantardjieff, California State University, Fullerton; M. Vijayan, K. Muniyappa, Umesh Varshney, Nagasuma R.Chandra, K. Sekar, Indian Institute of Science; Stewart Cole, Pedro Alzari, Institut Pasteur; Christian Cambillau, Herman van Tilbeurgh, Jean-Pierre Samama, CNRS, James Naismith, St. Andrews University, Anthony Coates, St. George's Hospital Medical School, Marila Gennaro, Public Health Research Institute.

### www.doe-mbi.ucla.edu/tb

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### TOXICOLOGISTS

Baxter Healthcare Corporation is a multinational Fortune 500 company headquartered in the pleasant northern suburbs of Chicago. Our products provide progressive, leading-edge therapies through the use of medical devices, biologics, recambinant proteins, renal dialysis systems, intravenous pharmaceutics, vaccines, inhalation anesthesia, and parenteral nutrition solutions. Our commitment to R&D is evident in our Corporate Research & Technical Services group, where state-of-theart facilities and high calibre scientists come together.

The Taxicalogy Department of this carporate group is seeking two Taxicologists to assist with preclinical testing, human risk assessments, product stewardship activities, and corporate consultation in Toxicology/Pharmacology for project teams and products. Qualified candidates will possess a Ph.D. with 0-5 years relevant experience. Responsibilities and level of position will be incumbent upon your experience and interest in study management, protocol/report preparation, data review and interpretation, and hands-on study activities.

As a global leader dedicated to building the best team in healthcare, Baxter offers a competitive solary and comprehensive benefits, including 401(k) and stock purchase. For confidential consideration, please forward your curriculum vitue with solary history to: Corporate Research & Technical Services, Human Resources, RLT-12, Baxter Healthcare Corporation, Technology Park, Rte. 120 and Wilson Road, Round Lake, IL 60073-0490. EOE M/F/D/V



### CHAIR DEPARTMENT OF BIOCHEMISTRY MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA

The Faculty of Health Sciences, McMaster University invites nominations and applications for a tenured faculty position as Chair of the Department of Biochemistry.

The Department of Biochemistry is a multi-disciplinary, comprehensive, research-intensive department with strengths in molecular and cell biology, macromolecular structure and function, mechanistic enzymology, membrane structure and function, molecular oncology, molecular virology, molecular microbiology, chemical biology, nucleic acids biochemistry, signal transduction, genomics and proteomics among others. The Department administers large and contemporary undergraduate and graduate programs and participates in a number of cross-Faculty educational programs. Membership currently consists of 17 full-time faculty, in addition to individuals from other departments in the Faculty of Science and the Faculty of Health Sciences, who hold joint appointments or are associate members.

The ideal candidate will have an outstanding reputation in research and will be committed to the educational mission of the University, the Department and the Faculty of Health Sciences. He/she will have demonstrated strong management skills and creative leadership and will be an innovative team builder with a capacity to project a vision for the department among its members and among members from other disciplines. This individual will have a proven ability to foster collaborative and multi-disciplinary research initiatives and mentor young investigators.

The appointment will be effective July 1, 2001. Salary and rank will be commensurate with experience.

McMaster is committed to employment equity and encourages applications from all qualified candidates including aboriginal people, persons with disabilities, members of visible minorities and women.

Nominations and applications including a curriculum vitae and the names and addresses of three referees should be directed in strict confidence to Dr. R. Joffe, Dean and Vice-President, Faculty of Health Sciences, c/o Recruitment Coordinator, Room 2J5, Faculty of Health Sciences, McMaster University, 1200 Main Street West, Hamilton, Ontario, Canada L8N 3Z5.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The deadline for applications is January 15, 2001. The search will continue until a suitable candidate is found.

For further information about the Faculty and the Department of Biochemistry, please visit our web site at : www.fhs.mcmaster.ca

### TUFTS UNIVERSITY SCHOOL OF MEDICINE

Assistant/Associate Professor DEPARTMENT OF PHARMACOLOGY & EXPERIMENTAL THERAPEUTICS

The Department of Pharmacology and Experimental Therapeutics seeks to fill a position of Assistant or Associate Professor (tenure track). Areas of particular research interest include pharmacogenetics, neuropharmacology, pharmacokinetics, drug metabolism, and neuropeptides. Current and ongoing extramural research funding is required and teaching experience is desirable.

Candidates should send a curriculum vitae and statement of current research interests and support, together with names of three references, to: Richard I. Shader, M.D., Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. AA/EOE



### Bacterial Pathogenesis Faculty Position

### The University of Texas Medical Branch

The Department of Microbiology and Immunology invites applications for a tenure-track position at the Asst./Assoc. Professor level. Applicants should have an M.D. and/or Ph.D. and will be expected to develop or have an established independent research program relating to bacterial diseases with emphasis on molecular pathogenesis. Current research programs include molecular pathogenesis of bacterial infections, host defenses, vaccine development, investigation of intracellular pathogens, with NIH training programs in tropical and emerging infectious diseases and mucosal immunology. We offer a competitive start-up package, modern laboratory space, and a highly interactive environment. Candidates with microbial genomics/bioinformatics expertise are especially encouraged to apply. For further information about the department visit: http:// microbiology.utmb.edu/. For full consideration, please send a curriculum vitae, a summary of past accomplishments, future research plans, and the names and contact information of four references by January 31, 2001 to:

Bacterial Pathogenesis Search Committee, Department of Microbiology and Immunology, The University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-1070.

UTMB hires only persons authorized to work in the United States. UTMB is an AA/EO Employer. AFF/D/V
**G**RADUATE **P**ROGRAMS



#### Immunologist

The Laboratory of Tumor Immunology and Biology, Division of Basic Sciences, of the National Cancer Institute, National Institutes of Health, has an opening for an Expert position in tumor immunology. The Laboratory has an active translational research program in cancer vaccines and other novel immunotherapies for cancer. The Laboratory is seeking candidates with experience in the design, development, and use of novel serologic and/or cellular immunoassays to define immune responses to vaccines and other immunotherapeutics in both experimental models and in patients enrolled in collaborative clinical trials. A Ph.D. degree with 5 to 10 years of relevant research experience is desired.

Interested candidates may apply with a CV & bibliography by January 31, 2001 to:

ARC 10B Personnel 9000 Rockville Pike Bldg. 31/3A35 Bethesda, Maryland, 20892

Questions and CVs may also be forwarded via email to: nci10bpersonnelr@mail.nih.gov.

NIH is an Equal Opportunity Employer.

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#### POSTDOCTORAL POSITIONS

MOUNT SINA SCHOOL OF Two postdoctoral positions are available in the Neuroinflammation Research Laboratories of the Department of Psychiatry to study gene expression using DNA microarray hybridization technology. The studies are aimed at identifying genes involved in the clinical progression of Alzheimer's disease dementia. The successful candidate must have demonstrated knowledge of molecular biology and protein chemistry. Position requires a minimum of 2 years' commitment and exceptional motivation.

Please send C.V., interests and names of 3 references to: Giulio Maria Pasinetti, MD, PhD, Director, Neuroinflammation Research Laboratories, Depart ment of Psychiatry, Box 1229, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. EOE.

#### **Graduate Study in the Plant Sciences**

If you're looking for an exciting learning environment where scientists work together in an interdisciplinary environment to collaboratively tackle challenging problems in the plant sciences...

#### consider Iowa State University

- Join 350 graduate students and 170 faculty who are pursuing research in the basic and applied plant sciences.
- Participate in the Plant Sciences Institute, a \$400 million combined public and private initiative.
- Opportunities for financial support are available through:
- plant sciences fellowships biotechnology fellowships bioinformatics training grant fellowships research assistantships teaching assistantships

• Stipends up to \$21,000 per year.

#### To be eligible, you must apply to a program in the plant sciences by February 1, 2001.

For information about specific programs and more, go to the Plant Sciences Institute Web site at http://www.plantsciences.iastate.edu or the Graduate College Web site at http://www.grad-college.iastate.edu

#### IOWA STATE UNIVERSITY Helping you become your best.

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### **Program Director**

#### **National Cancer Institute - National Institutes of Health**

NCI-00-3145 - Opening Date: September 22, 2000 - Closing Date: November 30, 2000

The National Cancer Institute (NCI) seeks a Program Director for the Cancer Training Branch. The position manages a multi-disciplinary grants portfolio by directing the day to day scientific, administrative and fiscal aspects of NCI research training and professional career grants. The Cancer Training Branch currently administers a \$130,000,000 budget supporting 2,000 trainees with a portfolio of over 800 grants, and in addition, handles approximately 500 applications each year. These grants are supported by 12 different types of grant mechanisms. Assignments to be performed include planning, executing and evaluating extramural research programs; developing and conveying complex research information; maintaining effective working relationships with specialized academic research groups; and, developing recommendations to improve program effectiveness. The employee would be the principal advisor on all facets of the multi-disciplinary scientific and fiscal aspects of the grants program and awards. The incumbent will be expected to participate in the development of new training grant support mechanisms; the modification and optimization of administrative procedures; and, the preparation of reports of program accomplishments, fiscal data and funding plans.

SALARY RANGE AND BENEFITS: Salary ranges from \$71,954 - \$93,537 per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary quoted includes locality pay.

APPLICATION PROCEDURES: U.S. Citizenship is required. The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit with your application. To obtain the recruiting bulletin, you may visit the NIH Career Website (http://careerhere.nih.gov) for the NCI recruitment bulletin for this position, OR call 1-800-728-JOBS (for local calls, 301-594-2953) and enter the "Fax ID Number" 1935 for NCI-00-3145. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812.

Please submit your resume, SF-171, Application for Federal Employment or OF-612, Optional Application Form by the closing date to:

National Institutes of Health -National Cancer Institute Human Resource and Consulting Branch 6120 Executive Boulevard, MSC 7211 - Executive Plaza South, Suite 550 Rockville, Maryland 20852-7211

#### NIH IS AN EQUAL OPPORTUNITY EMPLOYER

#### Bryn Mawr College Keck Postdoctoral Research/Teaching Fellowships in Sciences/Mathematics

Bryn Mawr College, with support from the W.M. Keck Foundation, will initiate in academic year 2001-2002 a new program of postdoctoral research/teaching fellowships in science/mathematics. The program will provide support for scientists emerging from graduate programs with a traditional focus on research who also want to make a strong commitment to teaching and to the mutually reinforcing benefits of teaching and research.

The undergraduate and graduate programs in the sciences/mathematics at Bryn Mawr have a long history of high achievement in both teaching and research. Keck Postdoctoral Fellows will join this community for terms of three years, during which they will conduct research and teach with strong faculty mentorship, and participate in programs aimed at further developing a respected and visible national community of "scientist/teachers."

Fellowship opportunities are available in a wide array of areas within sciences/mathematics. Interested candidates should review a list of faculty sponsors and information about application procedures available at http://serendip.brynmawr.edu/local/keck/ (Office of the Provost, 610-526-5055, for additional information). Two Fellows will begin their terms in Fall 2001, with two additional Fellows to be appointed in Fall 2002. Fellowships will include a stipend of \$40,000 a year plus annual allowances of \$5,000 for supplies and \$1,000 for travel. Review of applications for appointments in Fall, 2001 begins in January 2001.

Bryn Mawr is an equal opportunity, affirmative action employer. The College is a diverse, multicultural, and international community, and particularly encourages applications from women and members of under-represented groups.

#### Biotechnology

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# **Best in your field?** We're looking for the cream of the crop!



Novartis Agricultural Discovery Institute, Inc. (NADII) is one of the largest single fully funded research endeavors dedicated to agricultural genomics. We apply cutting-edge biotechnology to match genes with traits and provide advanced technologies that can be used widely in agribusiness research for the development of gene-based products. We currently seek the following exceptional individuals to join NADII's growing team:

#### Immunology Staff Scientist/Principal Investigator

Challenging leadership position available at the interface of pharmaceuticals, nutrition and plant science. Candidates should have a Ph.D. in Immunology or Biochemistry with a 3+ years' post-doctoral and/or industry experience. Demonstrated expertise in all aspects of antibody technology, including antibody cloning, isolation, engineering, and expression is required. Knowledge of plant molecular biology preferred. Effective communication and organizational skills and the ability to work independently are essential. The successful candidate will be creative and innovative with a strong record of scientific publication. Job Code: ISS/PH-SCI

NADII offers excellent compensation and a great benefits package, including 401(k). For immediate and confidential consideration, please send cover letter and resume including salary history and expectations to: Novartis Agricultural Discovery Institute, Inc., HR Dept./(Job Code), 3115 Merryfield Row, Suite 100, San Diego, CA 92121-1102. Fac: (858) 812-1096. EOE

ww.nadii.com



### COLBY COLLEGE IMMUNOLOGIST Assistant Professor of Biology

Colby College is seeking an Immunologist to fill a tenure-track position as Assistant Professor of Biology to begin September 2001. Candidates should have a Ph.D. and a strong commitment to undergraduate education. Teaching normally involves three courses with laboratory per year. Teaching will include immunology, team-teaching in the introductory course in some years, and courses in the candidate's areas of specialization. Expertise in molecular genetics is desirable. An active research program, including supervision of undergraduate research, will be expected. An attractive start-up package is available. Familiarity with liberal arts colleges, teaching experience or post-doctoral experience is desirable.

#### Women candidates will be considered for a Clare Boothe Luce Assistant Professorship which provides dedicated annual research funds.

Please submit a letter of application, statement of teaching interests and philosophy, statement of research interests, curriculum vitae, reprints of no more than three selected publications, undergraduate and graduate transcripts, and three letters of recommendation to: Professor W. Herbert Wilson, Jr., Chair, Department of Biology, Colby College, 5739 Mayflower Hill Drive, Waterville, ME 04901, Tel: 207-872-3432, e-mail: whwilson@colby.edu. Application review will begin December 31, 2000 and will continue until the position is filled. Applications and nominations of women and minorities who would enrich the diversity of the campus community are strongly encouraged. For more information about the College, please visit the Colby Web site: www.colby.edu

#### Food and Drug Administration Director, Anti-Bioterrorism Programs

The Food and Drug Administration (FDA) is seeking candidates for the position of the Director, Anti-Bioterrorism Programs. This position will be filled as either a Senior Executive Service, Senior Biomedical Research Service, Title 38 or 42 appointment, or Public Health Service Commissioned Corps position. The incumbent serves as primary advisor to the Commissioner, the Deputy Commissioner and the Senior Advisor for Science on antibioterrorism issues. Incumbent will articulate policy and serve as the lead contact for inter and intra Agency bioterrorism preparedness activities, and will coordinate activities across the Agency concerning the safety of foods. drugs, biologics (including vaccines), and medical devices. These activities include threat assessment, consultation with other agencies responding to an event, hazard detection and reduction, agent identification, epidemiological investigation, and consequence management, including public health support. The incumbent will develop and implement an Agency strategic plan for antibioterrorism programs including the identification and assessment of Agency training needs. The position is interdisciplinary so candidates may possess either an M.D. degree, J.D., or Ph.D. in biological, biomedical, physical, health or allied sciences and/or extensive senior executive level experience in those fields. The position is located in Rockville, MD. The salary range is from \$84,638 to negotiable. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Ms. Arlene Karr at 301-827-4183 or from the Office of Personnel Management website at www.usajobs.opm.gov. Submit applications by December 15, 2000 to

> Ms. Arlene Karr Office of Human Resources and Management Services Food and Drug Administration Room 7B-32, HFA-408 Parklawn Building 5600 Fishers Lane Rockville, MD 20857

The FDA is an equal opportunity employer and has a smoke free environment.

#### SENIOR SCIENTIFIC PROGRAM AND POLICY ANALYST

#### NATIONAL CENTER FOR COMPLEMENTARY & ALTERNATIVE MEDICINE NATIONAL INSTITUTES OF HEALTH (NIH)

The National Center for Complementary and Alternative Medicine (NCCAM) is seeking exceptional Ph.D. and/or M.D. applicants for the position of Director, Office of Science Policy (OSP), NCCAM. This position offers a unique opportunity to design, build, and direct this newly created office and all of its activities as they relate to one of the emerging and complex areas of science, complementary and alternative medicine research. The incumbent will be a senior advisor to the Director on science and legislative policy issues and be charged to evaluate the impact of NCCAM scientific initiatives; analyze operating programs; follow trends and synthesize data suitable for presentation to the medical and scientific committees, Congress and the public. Essential to this position is a combination of superior technical knowledge of the biomedical sciences with a demonstrated ability to devel op, manage and implement complex science policy programs. Productive and collegial interaction is required with scientific program staff at all levels of the Center and with members of the broad biomedical research community. Total salary is competitive and will be commensurate with the qualifications and experience of the successful candidate. Applicants must be U.S. Citizen, resident alien, or nonresident alien with a valid employment visa. To apply for this position, please submit current curriculum vitae and the names, addresses and telephone numbers of two professional references to the attention of:

National Center for Complementary and Alternative Medicine, NIH Human Resources Office Building 31, Room 5B58 31 Center Drive, MSC 2182 Bethesda, MD 20892-2182

Applications must be postmarked by January 2, 2000.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, ocean, forests, lakes, and trails are all within walking distance. If you love high-tech challenges but you're looking for a more natural environment, this could be the opportunity you've been searching for.

### **Scientific Curator**

Professional positions are available in the expanding Bioinformatics Programs at The Jackson Laboratory working with the Mouse Genome Database, Gene Expression Database, and the Mouse Sequence Database. Successful candidates will be primarily responsible for data acquisition and analysis, evaluating and annotating data to be incorporated into the databases, integrating information from disparate sources, and interacting with research laboratories and genome centers to facilitate data transfer. In addition, they will take part in database and interface design by contributing biological perspectives to new data content and displays. Applicants should be experienced in molecular biology or mammalian systems and versed in genomics, genetics, cellular or developmental biology. Other desirable attributes include excellent writing/communication skills and the ability to work effectively in a team environment.

Ph.D. degree in Life Sciences or M.S., with appropriate experience, required.

Qualified candidates should send C.V., resume and a cover letter to: The Jackson Laboratory, Human Resources, 600 Main Street, Bar Harbor, Maine 04609 Stephene: (207) 288-6103 Star: (207) 288-6106 Remail: jobs@jax.org

The Jackson Laboratory is an equal opportunity/affirmative action employer.

http://www.jax.org

# Where people who think differently think together.™

#### ENTREPRENEURIAL BIOSCIENTISTS

Kimberly-Clark, is a recognized global leader in the manufacture of tissue, personal care and health care products with sales over 15 billion dollars. We have manufacturing operations in 48 countries and sell products in more than 150 countries.

We are part of a corporate research and development unit searching and developing new technologies to create new businesses and to support an ambitious growth plan.

We are seeking creative, versatile and dynamic bioscientists in the following disciplines with a proven record of innovative thinking and accomplishments, and strong interest in the creation of technology-based new business in consumer health care products.

- Biochemist with experience in molecular biology.
- Biochemist with experience in immunochemistry.
- Cell biologist or physiologist with experience in the human reproductive system.
- Biomaterial scientist with experience in pharmacokinetics or controlled release.
- · Biochemist with experience in medical diagnostics.
- Pharmacist or Biochemist with experience
- in developing and formulating skin care products.

A Ph.D. degree is preferred. Two to seven years of work experience, either industrial or academic, is desirable, but not required. Successful candidates must have a broad bioscience knowledge base, strong initiative, quick learning ability and entrepreneurial spirit as well as rigorous scientific training and research capability.

This unique opportunity is located at our R&D campus in Roswell, Georgia, an attractive and growing suburb north of Atlanta. We offer a competitive salary and benefit package commensurate with education and demonstrated track record.

Principals Only --

Send your resume to Kimberly-Clark as follows:

#### Include source code <u>ASCI/RD/EXP</u> in e-mail subject line or at the top of all other submittals. E-mail is best.

- E-mail: K-C@Hiresystems.com Limit file size to
- 32 K. Rich text format files with minimal formatting are preferred.
- Fax: (781) 663-2481
- For files greater than 32 K, send via US Mail to: Kimberly-Clark Corp., R&D Recruiting-NLS, 1400 Holcomb Bridge Rd, Roswell, GA 30076-2199.



#### Faculty Positions The University of Montana Biochemistry, Chemistry & Pharmacology of the Central Nervous System

Applications are invited for **Tenure-Track** faculty positions in the Departments of Biological Sciences, Chemistry, and Pharmaceutical Sciences to strengthen research and graduate education in these departmental programs and in the neurosciences through a newly funded NIH Center of Biomedical Research Excellence (COBRE) in **Structural and Functional Neuroscience**. Research in the Center focuses on CNS protein structure/function as related to signal transduction, transport, pathogenesis, and neurodegeneration. We seek candidates with research interests at the interface of Biochemistry, Chemistry, Pharmacology and Toxicology. Successful candidates will be active members of both the Department and the Center. They will be expected to establish vigorous externally funded research programs that complement Departmental and Center strengths, supervise graduate students, and teach at the graduate and undergraduate levels. Competitive start-up packages will be available. Specific appointments are in:

**Division of Biological Sciences:** Biochemist with expertise in membrane biochemistry, transport, signal transduction, and/or neuronal pathogenesis. (M. Minnick, Search Committee Chair, minnick @selway.umt.edu)

**Department of Pharmaceutical Sciences/Cntr. Environmental Health Sciences:** Pharmacologist/toxicologist with expertise in molecular mechanisms of neurodegeneration in neurotoxicity or disease. (A. Holian, Search Committee Chair, aholian@selway.umt.edu)

**Department of Chemistry:** Biological chemist with expertise in application of physical or chemical methods to the structural study of proteins relevant to the CNS. (N. Priestley, Search Committee Chair, priestle@selway.umt.edu)

Applicants must have a doctoral degree, postdoctoral research experience, and demonstrated ability or potential to secure NIH funding. Except in unusual cases, appointment will be made at Assistant/Associate Professor level. Applications received by Dec. 22, 2000 will receive full consideration; review will continue until positions are filled. More detailed information may be obtained at http://www.umt.edu/csfn or by contacting the Center Director (R. Bridges, bridgesr@selway.umt.edu) or Search Committee Chairs. Send letter of application identifying position(s) sought, including CV, statement of research plans, and three letters of reference to the appropriate Committee Chair listed above, The University of Montana, Missoula, MT 59812.

Equal Opportunity/Affirmative Action Employer.



#### DRUG DISCOVERY

PTC Therapeutics Inc. is a biopharmaceutical company integrating biology and chemistry platforms to create small molecules that bind to targeted RNA sequences and post-transcriptional regulatory components of clinical relevance. PTC's technology provides a generalized therapeutic approach for numerous inherited diseases as

well as novel strategies for the treatment of cancer, infectious diseases and inflammatory disorders. PTC is well funded by premier investors and occupies a 20,000 sq.ft. custom-built research facility in South Plainfield, NJ.

PTC is seeking highly motivated M.S. or Ph.D. scientists who enjoy multidisciplinary approaches to drug discovery. Positions are commensurate with the experience level of the candidate. Academic or industrial postdoctoral experience is greatly preferred. Current openings:

#### BIOLOGY

Interdisciplinary project teams addressing molecular target assessment and technology discovery; HTS assay development; and molecular biology support.

Qualified applicants should have a M.S. or Ph.D. in biology, genetics, biochemistry, or molecular biology and a strong background and relevant laboratory experience in one of the following areas: microbial genetics; RNA processing; post-transcriptional or translational regulation of gene expression; RNA-protein interactions or RNA structure determination.

#### CHEMISTRY

Medicinal Chemistry: strong background in modern synthetic organic chemistry coupled with a thorough knowledge of modern chromatographic and analytical techniques (HPLC, NMR, and MS).

Combinatorial Chemistry: experience in multistep organic synthesis, process chemistry and/or combinatorial chemistry. Automation experience highly desired.

Computational Chemistry: experience in advanced computational techniques and programming as well as working knowledge of Oracle. Ph.D. preferred.

PTC Therapeutics Inc. is an equal opportunity employer offering competitive compensation, excellent employee benefits and the opportunity for personal and professional growth in an outstanding work environment. Qualified individuals should send a cover letter and resume indicating the position of interest to: PTC Therapeutics - Attention: Human Resources - 100 Corporate Court - South Plainfield, NJ 07080, careers@ptcbio.com. HUMAN GENOME SCIENCES The Art and Science of Discovery

The mission of Human Genome Sciences is to treat and cure disease by bringing new gene-based medicines to patients around the world. We are dedicated to discovery for health. We believe that our genomics-based drugs will usher in a new generation of healthcare products. Our medicines will use the human body's natural substances - genes, proteins and antibodies - to repair, rebuild and restore to normal health damaged, diseased and aged tissues.

#### SCIENTISTS Predinical Discovery

We are currently looking for Scientists in the Preclinical Discovery Department who posses a Ph.D. in Molecular Biology or related fiscipline with postdoctoral experience and a proven track record in research supported by high-quality, peer-reviewed publications. Scientists in the Predinical Discovery Department utilize the HGS database for the discovery and preclinical characterization of novel protein therapeutics and targets for small molecule and antibody-based drugs. Candidates will be responsible for creation of innovative database mixing strategies and development of research programs together with the other Research Departments at HGS to address the therapeutic, potential of these novel therapeutics. Applicants should be highly motivated, have demonstrated initiative and work well in a team environment. Strong written and verbal presentation skills are essential. In addition, the ideal candidate must be capable of managing multiple responsibilities in a fest-paced environment.

There are openings for qualified individuals in the areas of Immunology and Discovery Biology within the group. Candidates must possess a proven record in cytokine, growth factor research areas, hematoposetic cell biology or genomic discovery. Experience in flow cytometry, cellbased assay development, immunohistochemistry, or expression doning is an advantage. Job code: PM/KB

HGS encourages the pursuit of excellence and offers a competitive bene fits package, including educational reimbursement, subsidized health dub membership, and a 401(k) with employer match. Look for us on the Internet at www.hgsi.com for additional information.

For immediate consideration, please submit a copy of your (V and copies of representative publications. Send/fax to Human Resources Department, Human Genome Sciences, Inc., Job Code #, 9410 Key West Avenue, Rockville, MD 20850; tax: (301) 309-1845. Our preterred method for receiving resumes is via our Web page or via e-mail. EOE, M/F/D/V.

Visit our Web sife to learn more about us: http://www.hgsi.com

#### Faculty Positions in Cancer Research LSU Health Sciences Center

The Stanley S. Scott Cancer Center at LSU Health Sciences Center in New Orleans invites applications for tenure-track or tenured positions at the Associate Professor or Professor level. Candidates should possess a Ph.D. or M.D. degree and have demonstrated excellence in their research as indicated by both publications and a track record of externally funded research grants. The successful applicants will be expected to pursue an independent yet collaborative approach, addressing broad issues that relate to oncologic science. Research interests in prostate and/or lung cancer are encouraged but not required.

The search will give full consideration to applications that include curriculum vitae (including funding grant history), four representative publications, and the names of three individuals that may be contacted for letters of reference.

Joint appointments in the Cancer Center and an appropriate Department at the LSU Medical School are anticipated. The individual Departments will be dependent on the successful applicants' expertise and interests. Laboratory space will be provided in a new state-of-the-art facility in the heart of the Medical School complex.

Interested candidates should submit their curriculum vitae to:

> Dr. Oliver Sartor, Director Stanley S. Scott Cancer Center 533 Bolivar Street, Box CSB-4-17 New Orleans, Louisiana 70112

LSUHSC is an EOE/AA



Bracco Research USA, the U.S. Research and Development labs of Bracco S.p.A., a world leader in contrast media for *in vituo* diagnostics, has an opening for an Associate Research Investigator—Radiochemistry in our Princeton, NJ laboratories.

#### Associate Research Investigator— Radiochemistry

The successful candidate will play a leadership role in the preparation, purification and characterization of novel beta and gamma-emitting radioactive complexes, develop analytical methods for the characterization of these compounds, help to screen such compounds for their ability to interact with disease-related targets and assist in the formulation of potential new nuclear medicine-based products.

The qualified applicant must have a Ph.D. in Inorganic or Analytical Chemistry or a related discipline, plus relevant postdoctor al experience. Experience in the chemistry of technetium, rhenium, and/or therapeutic radionuclides, skills in TLC and HPLC method development, the handling of radioisotopes and/or formulations research is highly desirable. Strong written and oral skills are required.

Bracco Research USA offers excellent salary opportunities and a competitive benefits program, which includes a tax sheltered income program, life insurance, major medical and dental coverage, and educational assistance. For consideration, please submit your resume with salary requirements and a cover letter to:

> Karen Linder, Bracco Research USA, Inc. 305 College Road East, Princeton, NJ 08540 FAX: 609-514-2446 Email: klinder@bru.bracco.com



# Discover Merck.

#### Employment opportunities in NJ

Merck Research Laboratories, a world leader in Biological and Pharmaceutical Research, attracts scientists who are on the cutting edge of modern biomedical, genetic, chemical, and scientific discoveries and have an unwavering dedication to research. We are currently seeking a Staff Biologist for our Rahway, NJ location.

#### **Staff Biologist**

The successful applicant will participate in a project to characterize the role of chemokines and chemokine receptors in inflammation and to define appropriate therapeutic strategies to modulate this process. Research includes the isolation and expression of receptor genes, their pharmacological characterization and the identification of novel small molecule chemokine receptor antagonists or agonists. The pharmacological effects of these compounds are studied in primary cells or animal models.

B.S./M.S. degree or equivalent in Biochemistry, Molecular Biology, or Cell Biology with at least two years' research experience. Research skills should include tissue culture, isolation of DNA and RNA, molecular cloning and transfections of mammalian cells, and the purification and characterization of proteins. Applicants with experience in in-vivo animal biology and genomic techniques are preferred. The applicant is expected to interact well with others within and outside the group and to communicate effectively both orally and in writing.

We offer an excellent salary and comprehensive benefits program, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for personal growth. Please submit your resume and a cover letter indicating salary requirements to: Merck Positions, PAF Code: XHXMRSMJP11700, P.O. Box 92164, Los Angeles, CA 90009-2164. E-mail: merck@resume.isearch.com Fax: (310) 337-3393. Only candidates considered for interviews will receive responses. No phone or agency calls please. We are an Equal Opportunity Employer, M/F/D/V.



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### Associate Director for Program Development

The Division of Basic Sciences (DBS), National Cancer Institute (NCI) is recruiting a scientist to formulate and implement broad policies and programs that will determine the future scientific direction of the Division. The position of Associate Director for Program Development is located in the immediate Office of the Director, DBS, NCI. This Division is the largest basic science enterprise in cancer research. The mission of the Division is to provide cutting edge basic research relating to cellular, molecular, genetic, biochemical and immunological mechanisms relevant to the understanding, diagnosis, and treatment of cancer and other diseases. DBS supports training and research opportunities for young investigators and supports the translation of research findings by integrating and coordinating divisional research activities within the NIH as well as the private sector and academic research community. The Program Development Director serves as an advisor to the Division Director on the planning, development, coordination and implementation of promising new initiatives and the expansion of current, outstanding research projects that will frame immediate and future scientific priorities of the Division. New initiatives currently under planning involve emerging technology (e.g., proteomics, gene expression, imaging), molecular targets for drug discovery, mouse models for human cancer, stem cells for cancer, and translation research.

The successful candidate must hold a doctoral level degree (M.D. and/or Ph.D.). Candidates must possess relevant experience in the administration and management of a scientific research program including planning and directing multidisciplinary programs and evaluating their effectiveness. Experience in establishing priorities and allocating resources is also essential.

The position is full time. Each candidate must be a U.S. citizen, a citizen of a treaty allied country, or a nonresident alien with a valid work visa. Total annual compensation will be commensurate with education and experience.

Applicants should send: a cover letter of interest in the position, description of research interests and experience, curriculum vitae, bibliography and the names and addresses of five individuals who can be contacted as references. Letters of reference should not be submitted by the applicant. Completed applications should be sent by December 15, 2000 to:

Kathleen Schlom, Building 31 Room 3A18, 31 Center Drive, Bethesda MD 20892-2440.

NIH is an Equal Opportunity Employer

#### SPATIAL INFORMATICS

The Savannah River Ecology Laboratory (SREL) of The University of Georgia invites applications for an Assistant or Associate Professor/ Research Scientist to focus on the development and application of Geographic Information Systems (GIS) in ecological and environmental research.

Candidates who develop models from spatially dependent data sets are strongly encouraged to apply. Approaches that link observations across distinct spatial or temporal scales are particularly valued. Demonstrated expertise can be broadly based in the sciences, but it should bring an ecological perspective to bear on relevant questions related to processes that affect pristine and contaminated environments. The individual is expected to disseminate scientific findings, publish in the peerreviewed literature, and seek extramural funding. The opportunity for a tenure-track appointment within an appropriate academic unit of UGA may be negotiable.

The candidate must work closely with a diverse faculty of approximately 20 to enrich the development of an established GIS facility. Present resources include a fully equipped computer laboratory and an extensive library of long-term data sets on ecological and environmental research at the Department of Energy's Savannah River Site (SRS).

The Savannah River Ecology Laboratory is located on the SRS near Aiken, South Carolina, approximately two hours from UGA's main campus in Athens, Georgia. With a staff of approximately 175, the SREL faculty conduct research on natural and altered ecosystems, including those affected by DOE activities, both locally and around the world. Additional information may be obtained at http://www.uga.edu/ srel/. Candidates must have a Ph.D. and obtain a security clearance.

A cover letter, curriculum vitae, short description of research interests, and list of five references should be submitted to GIS-Search Coordinator, Savannah River Ecology Laboratory, Drawer E, Aiken, SC 29802.

Applications received by December 15, 2000 are assured of consideration. SREL/UGA is an Equal Opportunity/Affirmative Action Employer.

#### United States Department of Agriculture Cooperative State Research, Education, and Extension Service (CSREES) Associate Administrator, CSREES

The Department of Agriculture (USDA) is seeking to fill the position of the agency Associate Administrator for the Cooperative State Research, Education, and Extension Service. As Associate Administrator, the incumbent participates fully with the Administrator in all aspects of CSREES programs and policies. Shares responsibilities in working with customers and stakeholders to advance research. extension, and higher education in the food and agricultural sciences and related environmental and human sciences to benefit people, communities, and the Nation. Programs under the direction of the Administrator and Associate Administrator are financed by approximately \$1 billion in Federal funds and accomplished through the efforts of approximately 400 CSREES employees. The incumbent has frequent contacts with top officials of USDA, other government agencies, cooperative extension services, state agricultural experiment stations, colleges and universities, private organizations and corporations, national and international institutions, Departments or Ministries of Agriculture in other nations, and members of Congress and their staff. For more information about CSREES, go to the CSREES homepage at www.reeusda.gov.

This is a Senior Executive Service position. Salary ranges from \$116K to \$130K (including locality pay), commensurate with experience. A Ph.D. in a discipline related to the position is highly desirable. For information on the position, call Betty Lou Gilliland at 202-720-7441; for vacancy announcement/application procedures, call Stacy Aldrich at 301-504-1448. A copy of the vacancy announcement may be located on the Office of Personnel Management web page at http://www.usajobs.opm.gov/. Applications must be received by January 12, 2001.

#### Department of Biology Case Western Reserve University

Over the next six years, the Department of Biology of Case Western Reserve University intends to fill vacancies for approximately 12 positions. For the 2001-2002 academic year, the department invites applications for an appointment of a Neurobiologist with interest in neuromechanics and a Molecular Biologist interested in using experimental approaches such as functional genomics, proteonomics and/or bioinformatics to probe fundamental biological questions relevant to development or evolution. Although rank is open for the search, only one of these positions will be filled at the senior level. Applicants will be expected to have both experimental and quantitative skills and have an interest in Integrative Biology. Successful candidates will be expected to lead a strong independent funded research program as well as develop and teach courses at the undergraduate and graduate level. See http://www.cwru.edu/artsci/biol/biol.htm for more information about these and other positions.

In employment, as in education, CWRU is committed to affirmative action and equal opportunity. Applications from women and minority candidates are especially welcome. Applicants should send a letter that describes their research and teaching interests, a current *curriculum vitae*, and have three letters of recommendation sent directly to:

#### Joseph F. Koonce, Chair Department of Biology Case Western Reserve University Cleveland, OH 44106-7080

Review of applications begins December 4, 2000 and continues until the positions are filled.

#### **Faculty Position**

The Department of Pediatrics and the Department of Physiology & Biophysics at the University of Colorado School of Medicine invite applications for a tenure-eligible faculty position at the Assistant or Associate Professor level. The applicant should have the Ph.D. and/ or M.D. degree and postdoctoral research experience. Applicants will be considered who have research interests in the area of cystic fibrosis, including studies of the CFTR and airway development, defense and injury. The Department of Pediatrics has a strong clinical program in cystic fibrosis and is seeking to expand basic research related to this area. The Department of Physiology and Biophysics has active research programs in the complementing areas of ion channel biology and biophysics and in immune physiology. The School of Medicine is strongly research-based, with active Interdepartmental Programs in Biomolecular Structure, Cell and Developmental Biology, Immunology, Molecular Biology, and Neuroscience. The appointee will be expected to conduct vigorous independent research, participate in professional and graduate training, and provide research training to Pediatrics Fellows in the cystic fibrosis program.

Review of applications will begin in November 2000, but applications may be submitted at any time. The appointment may begin as early as Fall 2001. Salary is commensurate with experience. Applicants should send curriculum vitae and the names and telephone numbers of at least three references to:

Dr. Angeles B. Ribera Chair, Faculty Search Committee University of Colorado Health Sciences Center Department of Physiology & Biophysics 4200 E. Ninth Avenue, Campus Box C240 Denver, CO 80262 FAX: (303) 315-8110 www.uchsc.edu/sm/physiol

The University of Colorado Health Sciences Center is committed to equal opportunity and affirmative action.

### Help shape the future of PHARMACEUTICAL INNOVATION

The outstanding success of Schering-Plough stems from a basic commitment to scientific research and development. R&D spending, which totaled 51.2 billion in 1999, has nearly doubled in the past 5 years ... with expenditures in the current year expected to increase by approximately 15%.

At Schering-Plough Research Institute, we are pursuing new leads in targeted therapeutic areas and assembling a product line that will address pressing health care issues today and well into the future. We invite candidates who want to be a part of our exciting growth environment to join us in one of the following positions at our state-of-the-art campuses in **North Central New Jersey**, less than one hour from New York City.

#### VIROLOGY

#### Ph.D. Scientists - Molecular Biology/Biochemistry

Join a multidisciplinary team developing small molecule therapies against key viral enzymes using structure-based approaches. To qualify, you will need a Ph.D. in Molecular Biology, Biochemistry or Virology and 2-5 years of postdoctoral and/or industry experience. Background should include experience with assay development and enzyme kinetics, and familiarity with heterologous gene expression. Some experience with either viral or cell-based assays is preferred. Job Code: XHXDD0155.

#### **Research Associate**

Will be responsible for kinetic analysis of novel antiviral compounds and production of recombinant viral proteins. To qualify, you will need a BS or MS in Biology, Biochemistry or Microbiology and 4-8 years of experience which must include recombinant protein expression, expression optimization, design of protein purification protocols, preparation and characterization of proteins. Additional experience should include enzyme kinetic assays based on spectrophotometric and radiometric techniques, and in the graphical software used for kinetic analysis. Application of these techniques to the measurement of viral nucleotide polymerase is very valuable. **Job Code: XHXDD0184**.

### CELL BIOLOGY

#### Cell Biologist – Biotechnology

To work on engineering of cell lines and protein expression projects for antibodies, receptors or novel secreted proteins. Responsibilities will include routine mammalian cell culture, SDS-PAGE, Western blotting, subcellular fractionation, immunoprecipitation, immunocytochemistry, metabolic radiolabeling and proper handling of radioactivity. Knowledge of virology preferred. Job Code: XHXBD2018.

We offer an excellent compensation package that includes a competitive salary, a cash incentive bonus program, profit sharing and 401(k). Comprehensive benefits include: group insurance and retirement programs, flexible work arrangements, education assistance, and health and wellness programs. For prompt, confidential consideration, we invite you to forward your resume, which MUST include Job Code for position of interest, to: E-mail: sprisc@resume.isearch.com; or mail a scannable resume and cover letter (original copy only) to: Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300. We are an equal opportunity employer. We regret that we are unable to respond to each resume. Only those selected for an interview will be contacted.

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





#### McGILL UNIVERSITY FACULTY OF SCIENCE

The Faculty of Science at McGill University is dedicated to the creation of new knowledge and understanding for the benefit of society. Today's fundamental breakthroughs create the future and we are determined to continue our leading role in the advancement of science. Therefore we extend an invitation to outstanding scientists to join our stimulating community of teacher/researchers.

Building on our strengths, we have been hiring new faculty in almost every unit in the Faculty of Science and we expect this to continue into the foreseeable future. Faculty positions at all levels are being created through internal funding, through the Province of Quebec (FCAR) Programme stratégique de professeurs-chercheurs, through the Government of Canada's recently announced Canada Research Chairs program and the Natural Science and Engineering Research Council of Canada's University Faculty Award program.

The Faculty addresses major areas of intellectual interest including but not limited to: the Environment, Information Sciences, Life Sciences and Materials Science; in addition to traditional core areas. The Departments in the Faculty are:

Atmospheric & Oceanic Sciences Biology Chemistry The School of Computer Science Earth & Planetary Sciences Geography Mathematics and Statistics The McGill School of Environment Physics Psychology The Redpath Museum

We invite applications from interested candidates with proven records of achievement for these positions. In general, all fields of research in each discipline are welcomed. Detailed information on available positions can be obtained on departmental web pages accessible through www.mcgill.ca/science.

Completed applications must contain a full curriculum vitae, statements of teaching and of research interests and three confidential letters of recommendation sent under separate cover by the candidate's references upon the request of the candidate. Applications should be sent to the Chair of the relevant Department(s) at the address on the web site.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to equity in employment.

#### TENURE-TRACK FACULTY POSITIONS IN NEUROSCIENCE (Search Extended)

Bowdoin College, a highly select liberal arts college 2 hours north of Boston on the coast of Maine, is expanding and developing its Neuroscience Program. To that end, we are seeking to fill 2 entry-level, tenure-track positions, starting Fall 2001. The successful candidates will have an opportunity to contribute to the development of the Neuroscience Program. Faculty at Bowdoin College are supported in and expected to demonstrate excellence in both teaching and research. Our high quality undergraduates often participate in publication-quality research with faculty, and appear as co-authors on publications. We expect the successful candidates to develop research programs that will enable such research participation, for which start-up funds are available. For further information about the college, the departments, and the program, please see our website: www.bowdoin.edu

#### MOLECULAR NEUROSCIENTIST

The Bowdoin College Biology Department and Neuroscience Program seek to fill a tenure-track position in Molecular Neuroscience at the Assistant Professor level beginning Fall 2001. The molecular neuroscience position involves a joint appointment in biology and the interdisciplinary neuroscience program. Teaching responsibilities will normally be 3 courses, at least some of which will have labs, each year, including a lower level course that covers material at both the cell/molecular and organismal levels of organization and an upper level course in the candidate's area of specialization. Postdoctoral experience preferred. Review of applications will begin December 15, 2000. Please send a CV, a letter of intent which includes a description of research interests and teaching philosophy, and have three letters of reference sent directly to: Patsy Dickinson, Chair, Biology Department, Neuroscience Search, 6500 College Station, Bowdoin College, Brunswick, ME 04011-8465.

#### COGNITIVE NEUROSCIENTIST

The Bowdoin College Department of Psychology and Neuroscience Program seek applications for an entry-level, tenure-track position in Cognitive Neuroscience beginning Fall 2001. Responsibilities include maintaining an active research program that involves undergraduate students and teaching four courses per year. Courses include (1) Introductory Psychology and Statistics (alternating years), (2) a survey course in Cognitive Neuroscience, (3) a laboratory course in the candidate's field of specialization, and (4) an advanced seminar course in the candidate's field of specialization. To apply, send a cover letter, vita, evidence of excellence in both teaching and research, and at least three letters of reference to Louisa M. Slowiaczek, Chair, Department of Psychology, Bowdoin College, 6900 College Station, Brunswick, ME 04011-8469. Review of applications will begin December 15, 2000.

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.

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Dean School of Optometry

The University of California at Berkeley invites applications and nominations for the position of Dean of the School of Optometry. The School is responsible for professional preparation in Optometry and for instruction at the undergraduate and graduate levels in Vision Science. Over 250 students are enrolled in the professional curriculum leading to the Doctor of Optometry degree, 30 in the graduate program leading to the M.S. or Ph.D. degrees in Vision Science, and up to 12 in the Optometry residency program. Optometry has 20 full-time faculty and over 100 part-time clinical faculty. An important part of the School is a state-of-the-art Optometry Clinic on the Berkeley campus and 43 affiliated clinical teaching facilities which serve the University and surrounding community

Responsibilities of the successful applicant will be to (1) promote program excellence in clinical optometric and graduate vision science education, and in basic and clinical vision research; (2) interact with campus and university administration to secure resources for clinical and basic programs; (3) interact with professional optometrists, optometric and other health education institutions, alumni, legislative bodies, and health care delivery institutions to promote and develop the profession to meet the needs of a diverse community.

Desired qualifications include an international reputation and an outstanding record of leadership, demonstrated skills in teaching, a Doctor of Optometry (O.D.) or equivalent degree, and a level of professional scholarship that warrants appointment as a full professor at Berkeley. Successful experience in academic and clinical administration is essential. A mature understanding of the needs and directions of the School of Optometry, trends in the optometric profession, and their relation to emerging health care concerns will also be critical.

Nominations or applications must be received by January 12, 2001. A detailed curriculum vitae, a list of professional references, and a statement of the candidate's position on the current status of basic and clinical research and education in optometry, as well as current challenges to and opportunities for Optometry should be sent to: Dean of Optometry Search Committee, c/o Kimberly Adkinson, Office of the Vice Provost for Academic Affairs and Faculty Welfare, 200 California Hall, University of California, Berkeley, CA 94720.

Further information about the School of Optometry may be found at http:// spectacle.berkeley.edu/

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For the above positions, experience working within a U.S. pharmaceutical company is preferred. We offer excellent benefits & generous stock programs. For immediate con-

sideration, qualified candidates may send CV with salary requirements, indicating position desired to: Progenics, HR Dept, P.O. Box 549, Tarrytown, NY 10591. Fax: 914-789-2863. E-mail: hr@progenics.com

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RPI, a leader in the development of ribozyme-based pharmaceutical products, currently has openings in their expanding Bioinformatics group in

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#### **Bioinformatics Programmer**

Successful candidate will be responsible for software needed to analyze DNA sequences, locating potential drug sites, and designing and ordering the drugs for testing. Candidate must have a MS/BS degree in Computer Sciences, Biology, or Bioinformatics with 2 years programming experience (C, C++, Java, and Perl). Must possess the ability to learn, use, and apply a variety of bioinformatics computer applications (BLAST, FASTA). HTML design and database programming experience a plus.

#### Database Programmer

Successful candidate will be responsible for developing and maintaining Oracle database schema/triggers, and writing scripts to process data. Candidate must have a MS or BS degree in Computer Science or Life Sciences, with 2 years database programming experience (SQL and Java). Experience in designing database schema and developing Web interfaces required. DBA and programming experience (C, C++ and Perl) a plus.

RPI offers a competitive salary and an excellent benefits package, including stock options, stock purchase plan, 401(k) plan and flexible benefits program. For consideration, please send your resume and cover letter indicating job code to: Ribozyme Pharmaceuticals, Inc., Job Code #: 067, 2950 Wilderness Place, Boulder, CO 80301. Fax: (303) 449-6995. E-mail: jobs@rpi.com.

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#### WEBSITE PROJECT MANAGER EXCITING NEW POSITION IN NEUROSCIENCE AND INFORMATION TECHNOLOGY!

The National Institute of Neurological Disorders and Stroke (NINDS), part of the National Institutes of Health, is seeking an energetic team player to serve in its Director's office as the NINDS Website Project Manager. This is a unique opportunity to manage ongoing strategic development of cutting-edge websites as tools for communication, collaboration, and coordination. The selected candidate will assist NINDS in developing and maintaining its public website and intranet to support its mission elements. Key responsibilities will include overseeing the continuing development of NINDS websites in a manner consistent with its vision and strategy; interacting with technical, scientific, and managerial staff, as well as outside researchers and the general public, to ensure that content is fresh and relevant to web site audiences; coordinating development of new guidelines and standards for the web site; promoting a userdriven approach in website development; and managing contracts.

Applicants should have demonstrated project management and communication skills, strategic vision, and ability to persuade/negotiate. Understanding of biomedicine and/or research cultures and organizations is essential. A background in neuroscience is a definite plus. Salary range \$60,890 to \$93,537, depending on qualifications. US citizenship required.

For application via the internet go to http://careerhere.nih.gov (Announcement # NINDS-00-0327) or for application by fax call (800) 728-JOBS: request FAX#5003 or call the NINDS Human Resources Branch at (301) 496-6334.

Applications must be postmarked by 12/1/00.



#### MODELING OF BIOLOGICAL SYSTEMS

AN INTERDISCIPLINARY COURSE FOR BIOLOGISTS AND NON-BIOLOGISTS

#### MARCH 24 - MAY 3, 2001

Modeling of Biological Systems (MOBS) is an intensive, multi-disciplinary, residential lecture & laboratory course designed to train biologists and nonbiologists to apply and adapt successful modeling approaches in biology to their own research. MOBS is for students in the biological, chemical and physical sciences, mathematics and engineering. The course is organized into thematic cassettes that focus on particular broad areas of biology.

The MOBS curriculum is geared to advanced graduate students and above. Students will require at least a working knowledge of calculus. Successful applicants will receive pre-course assignments to help with their course activities. The course represents an innovative approach to education of modeling of biological systems in its thematic organization, modularity of content, interdisciplinary teaming, and multi-year involvement by both students and faculty.

The faculty will introduce students to successful approaches to modeling used to address contemporary biological questions in a quantitative fashion. With faculty tutelage, students will have hands-on opportunity to work with these models and to learn to apply these approaches to their own scientific questions.

Additional information is available at http://courses.mbl.edu.

The Burroughs Wellcome Fund and the National Science Foundation provide funding support for the MOBS Course.

Course Director: Robert B. Silver, Marine Biological Laboratory

Faculty: Thomas E. Cheatham III, Univ. of Utah; Robert Eisenberg, Rush University; Judith Herzfield, Brandeis University; John R. Hummel, Argonne National Laboratory; Peter A. Kollman, UCSF; John E. Pearson, Los Alamos National Laboratory; Silvina Ponce-Dawson, Univ. of Buenos Aires; Gregory Petsko, Brandeis University; and others to be announced.

Application Deadline: December 29, 2000.

Course Fee: \$3,750 (room & board is additional). Scholarship assistance is available.



For More Information or Application Contact: Admissions Coordinator, Marine Biological Laboratory 7 MBL Street, Woods Hole, MA 02543 (508) 289-7401 / email: admissions@mbl.edu The MBL is an EEO Affirmative Action Institution

#### Monterey Bay Aquarium Research Institute

Founded in 1987 by the late David Packard, Monterey Bay Aquarium Research Institute is a non-profit, private oceanographic research institute, uniquely dedicated to the development of state-of-the-art equipment, instrumentation, systems and methods for scientific research in the deep waters of the ocean. Located in Moss Landing, California, MBARI's research center includes science and engineering laboratories, as well as an operations facility to support our two research vessels and two remotely operated vehicles. For more information on MBARI, please visit our web site at http://www.mbari.org.

#### INFORMATION APPLICATIONS GROUP LEADER

This individual will lead the Information Applications Group (IAG) in the Science Department. MBARI is pioneering the development of ocean observatory systems, as well as creating a range of novel instrumentation for extended ocean observation. In tandem with these activities, data management systems and protocols at the Institution are expected to grow in both scope and complexity. IAG is responsible for archiving and making accessible scientific data for both MBARI staff, as well as the larger oceanographic community. This group's mission includes the development of sophisticated data handling and management systems for MBARI's multi-sensor oceanographic observing platforms, for maintaining existing data management infrastructure, and for developing new applications in support of individual scientists.

The successful candidate will supervise a team of Software Engineers and Software Application Developers on science-oriented data management projects. Minimum Bachelor's degree in a physical science, computer science, or software engineering required. Minimum ten years software engineering and managerial experience, preferably in the area of scientific data management required. Ph.D. or equivalent postgraduate work in the physical sciences or scientific data management preferred. Demonstrated broad experience in software and database design for scientific applications required.

Excellent communication, organizational and leadership skills required. Must be able to work with diverse groups of people within MBARI and in collaborating institutions. Demonstrated supervisory skills, and experience with long term, large scale, multi-institutional projects required. Should be willing and able to work at sea when required.

Please send resume and cover letter to: MBARI Human Resources 7700 Sandholdt Road Moss Landing, CA, 95039-9644 Fax to (831) 775-1620, or email to jobs@mbari.org

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#### **COPY EDITOR**

Nature Publishing Group seeks a copy editor for its prestigious monthly journal *Nature Structural Biology*. This challenging job involves substantially editing research articles to make these complex technical manuscripts clear, concise and consistent with our style.

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Please send a cover letter and CV to the Editor, Nature Structural Biology, 345 Park Avenue South, New York, NY 10010-1707 (fax 212 679 0735; email nsb@natureny.com) to arrive as soon as possible and no later than December 8.



#### FACULTY POSITIONS Leonard and Madlyn Abramson Family Cancer Research Institute at the University of Pennsylvania Cancer Center

The UNIVERSITY OF PENNSYLVANIA seeks outstanding candidates for tenure-track faculty positions in the recently created Abramson Family Cancer Research Institute, which is an integral part of the University of Pennsylvania Cancer Center and the School of Medicine. Faculty appointments will be based in the School of Medicine. Faculty rank will be commensurate with experience and qualifications.

Candidates who have scientific interests and experience in any field of cancer biology, including, but not limited to cell cycle control, tumor suppressor genes, oncogenes, cancer genetics, signal transduction, angiogenesis, apoptosis, and translational research, should send a letter of interest, curriculum vitae and the names of references to:



Craig Thompson, M.D. Scientific Director The Abramson Family Cancer Research Institute 4<sup>th</sup> Floor - BRB II/III 421 Currie Blvd. Philadelphia, PA 19104

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#### Florida Gulf Coast University Biology Faculty COLLEGE OF ARTS & SCIENCES

The Biology Program at FGCU invites applications for a full-time, 9-month position at the Assistant/Associate Professor level within our Division of Mathematics and Sciences. A major task of this person will be the development of a program in biotechnology. Teaching responsibilities will include an undergraduate course in Genetics and additional courses to be determined by the interests of the applicant and needs of the Division. *Min. Req'd:* Ph.D. in the biological sciences (completed before August 2001). Evidence of excellence in teaching and continuing scholarship. Candidates with prior experience supervising undergraduate research are particularly encouraged to apply. *Prefer:* The applicant's area of phylogenetic expertise is open, however, the successful applicant will be expected to develop a program in biotechnology, teach genetics (and other courses), and to involve undergraduate students in research. For more information about our program, see our web site (http://itech.fgcu.edu/arts/biology/). Informal inquiries may be made to Dr. Jerome Jackson (ijackson@fgcu.edu).

**SPECIAL POSITION NOTES:** Appointment will be made at a faculty rank commensurate with the candidate's exp. on a 9-mo. multi-year contract basis. The anticipated start date for this position is Fall 2001.

APPLICATION PROCESS: Applicants should submit two packages (one original and one photocopy); each package must include a letter of interest, curriculum vitae, statement of teaching philosophy, a statement of research interests articulating how he/she will involve undergraduates, and contact information for five references. These packets must be postmarked by December 15, 2000 and should be sent to: FLORIDA GULF COAST UNIVERSITY, Position #13619, Director, Human Resources, 10501 FGCU Blvd. South, Ft. Myers, FL 33965-6565. Obtain additional information by visiting our website at www.fgcu.edu or call the 24-hr jobline at 941-590-1111.

FGCU is an Equal Opportunity/Equal Access/Affirmative Action Institution which has a commitment to cultural, racial, and ethnic communities and encourages women and minorities to apply. It is expected that successful candidates share in this commitment.



### Director Division of Intramural Research (DIR)

National Institute of Environmental Health Sciences Research Triangle Park, North Carolina National Institutes of Health Department of Health and Human Services

The National Institute of Environmental Health Sciences in the National Institutes of Health is seeking exceptional candidates to fill the position of Director, Division of Intramural Research. The incumbent of this position will direct laboratory and clinical research through 18 laboratories and branches with approximately 550 employees and 250 non-ceiling personnel. The Director, DIR, will serve as a principal advisor to the Institute Director on scientific affairs involving multidisciplinary biomedical research programs; develops and recommends policies for the execution of research programs; determines effectiveness of current programs and recommends policies for new programs; and develops new and revised programs to meet national environmental health needs. The Division is organized into three scientific programs and the Office of Clinical Research which highlight the areas of research excellence of NIEHS. These programs are highly interrelated, interactive, and synergistic. Using the multidisciplinary biomedical research approach, the mission of the DIR is to contribute to the basic understanding of biological and chemical processes, understanding of the contributions of environmental agents to human disease and dysfunction, and to the underlying mechanisms of environmentally associated diseases.

Candidates must have either a M.D. or Ph.D. or equivalent degree in an environmental health science discipline. Salary is commensurate with experience and level of accomplishments and will range up to \$200,000. A Recruitment Bonus of up to 25% of base pay or a Relocation Bonus of up to 25% of base pay may also be available.

Interested persons should send a curriculum vitae to: HRMB-(HNV00-25), NIEHS, PO Box 12233, (MD-EC-11), RTP, NC 27709 by January 5, 2001. You may call Carolyn London at 919-541-7513 for more information.

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#### Computer Science St. Lawrence University

St. Lawrence University invites applications from computer scientists for a tenure-track position beginning August, 2001. A Ph.D. in hand or near completion is required. Candidates must be able to teach a range of upper- and lower-level undergraduate CS courses. Teaching load is three courses per semester, with credit for the supervision of independent study and honors projects. While teaching is the primary focus at St. Lawrence, a continuing research program is an expectation of the position.

St. Lawrence has recently expanded its computer science curriculum to include a CS major. The candidate selected will help to provide leadership, in cooperation with current members of the department, in the further evolution of a vibrant undergraduate CS program of high quality in a liberal arts setting. Over the next several years this individual will participate in new course development, curricular planning, and the shaping of a strong and attractive student-oriented program in computer science. In addition, the individual will have the opportunity to help design new computer science facilities as part of a major planned science facilities renovation. Ideally the individual will also have a research program in which advanced undergraduates can be included as participants.

Review of candidates is in process and will continue until the position is filled. Send letter of application, resume, a statement of teaching philosophy, and three letters of recommendation to: Dr. Michael Sheard, Chair of Computer Science Search Committee, Department of Mathematics, St. Lawrence University, Canton, NY 13617-1111

St. Lawrence University, chartered in 1856, is an independent, private, non-denominational university whose mission is to provide an inspiring and demanding undergraduate education in the liberal arts to students selected for their seriousness of purpose and intellectual promise. For more information please visit SLU's homepage at www.stlawu.edu/equity:http/job.html.

St. Lawrence University is an Affirmative Action/Equal Employment Opportunity employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

#### ASSOCIATE DIRECTOR CORNELL NANOFABRICATION FACILITY

The Cornell Nanofabrication Facility (CNF), a member of NSF-funded National Nanofabrication Users Network, is seeking an experienced scientist or engineer for the position of Associate Director with responsibilities for daily facility operation, user research programs, facility financial activities, and internal and external interactions. The Associate Director helps execute the facility's mission of bringing to fruition research in nanostructure science and engineering. The facility's technical and administrative staff report to the Associate Director. Currently, nearly 450 users from academia and industry conduct research in diverse disciplines using advanced fabrication and other tools, a substantial portion of which are derived from semiconductor industry. CNF has been in operation for 23 years and will go through a major expansion when it moves to a new home in Duffield Hall, a multidisciplinary research building due for completion in 2002.

Qualifications include: a Ph.D. in science or engineering, high level of organizational ability, supervisory skills, technical knowledge of the equipment and the diverse research that occurs in the facility, and ability to communicate persuasively. At least 5 years of experience in academia or industry related to nanofabrication technology is required together with 5 years of experience in supervising personnel.

For consideration, please send a letter of interest and resume to:

Director, Cornell Nanofabrication Facility Knight Laboratory Cornell University, Ithaca, NY 14853



#### Tenure-track Position in Statistics St. Lawrence University

The mathematics department at St. Lawrence University invites applications for a tenure-track position in statistics at the assistant or associate professor level beginning in August 2001. A Ph.D. in statistics or in a mathematical science with significant experience in applied statistics should be in hand or near completion at the time of appointment. Qualifications include a strong commitment to teaching undergraduates and evidence of excellence in teaching. While teaching is the primary focus at St. Lawrence, a continuing research program is an expectation of the position along with an interest in collaboration with faculty and students in other disciplines.

St. Lawrence University has a well-established minor in applied statistics that includes introductory and advanced courses taught within the mathematics department and related disciplinary methods courses taught in other departments. Multiple sections of the introductory applied statistics course are among the most popular courses on campus. Upper level courses include applied regression, probability, mathematical statistics, time series analysis, and nonparametric statistics. The successful applicant will have an opportunity to develop additional statistics courses to expand the range and frequency of our offerings. The teaching load is three courses per semester, with credit for the supervision of independent study and honors projects.

Review of candidates will begin on December 1, 2000. Send a letter of application, resume, statement of teaching philosophy, and three letters of recommendation to: Dr. Robin Lock, Burry Professor of Statistics, Mathematics Department, St. Lawrence University, Canton, NY 13617-1111.

St. Lawrence University, chartered in 1856, is an independent, private, non-denominational university whose mission is to provide an inspiring and demanding education in the liberal arts to students selected for their seriousness of purpose and intellectual promise. Women, minorities, veterans, and persons with disabilities are encouraged to apply. St. Lawrence University is an Affirmative Action/ Equal Employment Opportunity employer.



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Search Committee (c/o Jeffrey I. Gordon, Head) Department of Molecular Biology and Pharmacology

Washington University School of Medicine

660 South Euclid Avenue, Box 8103

St. Louis, Missouri 63110

Applicants should also arrange to have three letters of

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#### ASSISTANT PROFESSOR OF BIOMEDICAL ENGINEERING

Ambion

#### University of Missouri-Columbia

Description: This is a tenure-track faculty position with a split teaching/research appointment. The successful candidate is expected to establish a strong interdisciplinary research program at the interface between engineering and the life sciences. Research should address fundamental issues in biomedical engineering, which lead to new methods, products, processes, materials, or equipment for human and animal health. The candidate is expected to obtain external funding and collaborate with other research faculty in one or more divisions including Engineering, Agriculture, Food and Natural Resources; Medicine; Veterinary Medicine; Biological Sciences; and Physics. The new faculty member will teach undergraduate- and graduate-level courses in biological engineering.

Qualifications: Applicants should have a Ph.D. degree in biomedical engineering, biological engineering or a field that supports biological engineering research. Candidates should have a strong background in both engineering and related life sciences. Education and ability to teach courses in biological engineering are necessary.

Closing Date: December 31, 2000 or until the position is filled.

Application: Applicants should submit a detailed resume, a statement of research plan, a statement of teaching philosophy, degree transcripts, and a list of three professional references to: Dr. Kevin Gillis, Search Committee Chair, Dept. of Biological Engineering, 215 Ag Eng Bldg, University of Missouri, Columbia, MO 65211. Ph: (573) 882-2369, Fax: (573) 884-5650, Email: GillisK@missouri.edu or IrelandC@missouri.edu.

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siderable freedom in developing their own research programs and participate in a collegial team environment that drives the development of new ideas. They typically have a small research group, NIH small business grants and write papers and patents. We feel that Ambion's diverse and interactive R&D group is unique in the industry and has been important to our continuing success.



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#### **Professorship in Clinical Neuroimaging**

Professorship in Neuroimaging at the University of California, San Francisco. The Ernest Gallo Clinic and Research Center, a biomedical facility affiliated with the Department of Neurology at UCSF, is undergoing substantial growth and expansion. We seek applicants with an MD or PhD with outstanding abilities in clinical neuroimaging research for a new tenured position to study alcoholism and addiction. We encourage applicants only with strong research experience to apply. There will be concurrent appointments in the Department of Neurology and the Ernest Gallo Clinic and Research Center, with joint appointments in other Departments or Programs as may be appropriate. The successful applicant will be expected to have an interest in drug development. This position carries administrative responsibilities to lead a Neuroimaging Program in Alcoholism and Addiction and to be a senior member of the Gallo leadership team. For further information visit our web site at: http://www.egcrc.org. Please send curriculum vitae and three letters of recommendations to:

Ivan Diamond, M.D., Ph.D. Chair, Gallo Search Committee Professor and Vice-Chair Department of Neurology Professor of Cellular and **Molecular Pharmaclogy Director-Ernest Gallo Clinic** And Research Center 5858 Horton Street, Ste 200 Emervville, CA 94608 Email: diamond@itsa.ucsf.edu



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### FACULTY POSITION

The Department of Biochemistry at MCP Hahnemann School of Medicine has several tenure-track faculty openings at the Assistant, Associate and Full Professor levels. The department is being developed with an emphasis on understanding biochemical processes at a molecular level. Areas of interest include but are not limited to cell growth control, cell cycle, cancer biology, gene regulation, proteomics and structural biology. The department is in newly renovated space in center city Philadelphia. Candidates must have an MD and/or PhD with postdoctoral experience and a record of publications. Faculty will be expected to develop an independent research program that will attract extramural funding and to participate in teaching graduate and medical students. Interested candidates should submit by January 15, 2001 a curriculum vitae, statement of research interest, and names of three references to:

Dr. Jane Azizkhan-Clifford **Professor and Chair Department of Biochemistry** MCP Hahnemann School of Medicine 245 N. 15th Street, Mail Stop 497 Philadelphia, PA 19016 E-mail: jane.clifford@drexel.edu

MCP Hahnemann University



### THE 2001 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805–1889), a prominent surgeon of Philadelphia and author of the outstanding *Systems of Surgery*, who served as president of the American Medical Association.

Each year since its inception in 1967, the Louisa Gross Horwitz Prize has been awarded by Columbia University for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation, which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 2000 awardees were H. Robert Horvitz, PH.D., Whitehead Professor of Biology, Massachusetts Institute of Technology, Investigator, Howard Hughes Medical Institute; Stanley J. Korsmeyer, M.D., Sidney Farber Professor of Pathology and Professor of Medicine, Dana-Farber Cancer Institute, Harvard Medical School, Investigator, Howard Hughes Medical Institute, Harvard Medical School.

#### QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Nominations for prospective recipients should be given to the chairman of the Louisa Gross Horwitz Prize Committee, Dr. Marian Carlson. Nomination letters should include:

- 1. A summary, preferably less than 500 words, of the research on which this nomination is based.
- 2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
- 3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
- 4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
- 5. A copy of the nominee's curriculum vitae.

An original and twelve (12) copies of each nomination should be sent to: Dr. Marian Carlson, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, Room 2-401, New York, NY 10032.

Deadline for the receipt of nominations is January 15, 2001.

### Rapid Access to Intervention Development "RAID"

The NATIONAL CANCER INSTITUTE is requesting applications for the following initiative: Rapid Access to Intervention Development (RAID). RAID will make available to academic investigators, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program, RAID is not a grant program to originating investigators. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proofof-principle clinical trials, using NCI's contract research mechanisms. RAID will assist investigators who submit successful applications by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation, and toxicology. Suitable agents for RAID will include small molecules, biologics, or vaccines. There are two receipt dates for proposals per year, February 1 and August 1. Current applications must be received by February 1, with all materials submitted directly to the office listed below. For information on process and procedure, visit the web site, http://dtp.nci.nih.gov. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. Academic investigators may have collaborations with small-business partners and still qualify for RAID funding. Non-profit organizations other than universities may also now submit RAID applications. Please note that a maximum of two distinct proposals per investigator can be submitted for each application review date. Please contact:

RAID, Office of Associate Director Developmental Therapeutics Program, NCI 6130 Executive Blvd., Suite 8000 Excecutive Plaza North Building - Rockville, MD 20852 Tel: 301.496.8720; Fax: 301.402.0831 Email: sausville@nih.gov

#### National Institute of Allergy and Infectious Diseases National Institutes of Health Rocky Mountain Laboratories

Postdoctoral positions are available to study the interaction of human bacterial pathogens with phagocytic leukocytes. Studies will include genomics and proteomics strategies to identify target bacterial genes/proteins of interest or those up-regulated in phagocytes. Phagocyte-pathogen interactions will be examined using fluorescence-based real-time assays, video microscopy, confocal and electron microscopy in combination with enzymatic assays for ROS production, routine biochemistry, immunology and cell biology. The facility supports multiple laboratories and investigators with expertise in a wide variety of human pathogens. The Rocky Mountain Laboratories' research campus includes an excellent electron microscopy facility, a Biosafety Level 3 facility and a non-human primate facility. Laboratories have been recently upgraded and equipped with state-of-the-art instrumentation, including that for DNA microarray analyses, proteomics, and high-throughput DNA sequencing. Starting salaries range from \$29,000 - \$40,000 commensurate with experience. The research facility is located in a very scenic mountainous area, which supports skiing, climbing, hiking, cycling, and trout fishing. A Ph.D. or M.D. in an appropriate discipline is required. Interested individuals should send *curriculum vitae*, a 1-2-page career summary including research interests, and 3 letters of reference to Frank R. DeLeo, Laboratory of Human Bacterial Pathogenesis, Rocky Mountain Laboratories, NIAID, NIH, 903 South 4th Street, Hamilton, MT 59840 or E-mail materials to fdeleo@niaid.nih.gov.



#### ASSISTANT/ASSOCIATE PROFESSOR MICROBIAL BIOLOGIST

Tenure-track opening at the Assistant or Associate Professor level for Microbial Biologist in the Department of Biological Sciences at DePaul University starting September 2001. Successful candidate will be broadly trained in microbial biology with a strong commitment to undergraduate education. All subdisciplines in microbial biology will be considered in-cluding microbiology, virology, microbial ecology/ population biology, environmental science, genom-ics, and evolution. Ph.D. required; postdoctoral and previous teaching experience preferred. Teaching re-sponsibilities to include some combination of introductory biology with laboratory for nonmajors; one quarter of introductory biology sequence for majors; introductory and/or intermediate-level undergraduate course(s) in microbial biology; and graduate/advanced undergraduate course in candidate's area of expertise. Applicant's teaching should contribute to the Department's developing concentrations in biotechnology and/or ecology/population biology/ evolution; candidate should also exhibit willingness to participate in interdisciplinary programs. Research support and start-up funds available. A spacious new biology and environmental sciences building provides modern and well-equipped teaching and research laboratories and support facilities. Applications will be accepted until position is filled; review will begin December 15, 2000. More information about position is available at website: http://diversity.depaul.edu/ fjobs\_las.html. Please send curriculum vitae; three letters of reference; statement of research and teaching interests, including your educational philosophy; and list of equipment and supply needs to: Microbial Biology Search Committee, Department of Biological Sciences, DePaul University, 2325 North Clifton Avenue, Chicago, IL 60614. Additional inquiries to above address or FAX: 773-325-7596; e-mail: pfunk@wppost.depaul.edu. The Department is committed to effectively teaching a diverse undergraduate student body; increasing the number of people from underrepresented groups entering science professions is an important part of our mission. Therefore, we encourage applications from women, people of color, and the members of other historically underrepresented groups.

FACULTY POSITION in wildlife ecology/restoration ecology: 12-month, tenure-track position; ASSISTANT PROFESSOR level; appointment approximately 70% research, 30% teaching. Qualifications include a Ph.D. in wildlife ecology or closely related field with specific training and experience in restoration ecology. Good communication skills with ability to interact effectively with students, public agencies, landowners, agricultural interests, special interest groups, and other researchers. Responsibilities include developing a research program (outside funding) directed at understanding and managing natural systems for long-term sustainability; a willingness to contribute to the Department's efforts to provide leadership in the effective management of arid lands; and the training of students in management of arid lands, particularly of southwestern United States and Mexico. A substantial commitment is required for quality classroom teaching at undergraduate and graduate levels.

Applications should include curriculum vitae detailing education, professional experience, qualifications, and research support. Include statements describing (1) research interests, (2) teaching philosophy, and (3) courses you are able to offer. A list of references should be included (names, addresses, telephone, email addresses). Reference letters will be requested after an initial screening. Closing date is 15 December 2000 with an anticipated starting date on or about 1 July 2001. For additional information, contact: Don Caccamise; Telephone: 505-646-7051; FAX: 505-646-1281; e-mail: natres@nmsu.edu. Send application materials to: Search Committee, Department of Fishery and Wildlife Sciences, New Mexico State University, Box 30003, MSC 4901, Las Cruces, NM 88003-8003. NMSU is an Equal Opportunity/Affirmative Action Employer.

#### POSITIONS OPEN

#### ASSISTANT/ASSOCIATE PROFESSOR POSITIONS Department of Pharmacology University of Illinois, Chicago

The Department of Pharmacology at the University of Illinois (Chicago) invites applications for tenure-track positions at the level of Assistant Professor and tenured positions at the Associate Professor and FULL PROFES-SOR levels. This recruitment will complement ongoing areas of research and is part of the significant expansion that includes the new Basic Medical Science Building to be completed in 2003. Current areas of research in the Department comprise signal transduction and receptor biology, vascular and lung biology, neuroscience, thrombosis, and inflammatory pathways. We are seeking highly motivated and dynamic faculty in the areas of neuroscience, signal transduction, cardiovascular biology, cancer biology, and genomics/proteomics. Our start-up packages are highly competitive. The University of Illinois provides an outstanding intellectual environment as well as state-of-the-art research facilities including DNA/protein synthesis and sequencing, confocal microscopy, NMR, and trans-genic/knockout facilities. Applicants should possess a Ph.D. or M.D. For fullest consideration, submit curriculum vitae, description of research interests and goals, grant support, and the names of three references by January 1, 2001, to: Dr. Oscar Colamonici (SC001), Search Committee, Department of Pharma-cology, University of Illinois, 835 South Wolcott Avenue (M/C 868), Room E403, Chicago, IL 60612. Website: www.uic.edu/ depts.mcph/. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

#### FACULTY POSITION CONSERVATION BIOLOGY

The Vancouver Campus of Washington State University invites applications for a tenure-track **AS**-**SISTANT PROFESSOR** position in the School of Biological Sciences. We seek applicants with strong conceptual and experimental emphases in any area of conservation biology and whose research interests complement that of current WSUV faculty. The successful candidate will develop a vigorous, externally funded research program and teach graduate and upper-division undergraduate courses in biology and environmental science. A Ph.D. is required by the start date. Strong publication and external funding record, excellence in teaching, and interest in Pacific Northwest systems are desired.

WSÚ Vancouver is a rapidly growing campus with science and engineering as areas of emphasis. Research and teaching expectations are consistent across WSU campuses; WSU, a Tier I research institution, offers competitive salaries and start-up packages. Located across the Columbia River from Portland, Oregon, WSUV offers significant opportunities for research, collaboration, and quality of life. See website: www. vancouver.wsu.edu/programs/sci/default.htm.

Send two copies of curriculum vitae; up to three reprints; cover letter summarizing research and teaching interests; and names, addresses, telephone numbers and e-mail addresses of three references to: Dr. John Bishop, Washington State University Vancouver, 14204 N.E. Salmon Creek Avenue, Vancouver, WA 98686-9600. E-mail: bishop@ vancouver.wsu.edu; Telephone: 360-546-9630. Applications must be postmarked by January 26, 2001.

Washington State University is an Equal Opportunity/ Affirmative Action Educator and Employer.

#### POSITIONS OPEN ASSISTANT AND ASSOCIATE/

#### FULL PROFESSORS ENVIRONMENTAL HEALTH Department of Health Sciences

University of Wisconsin-Milwaukee, Department of Health Sciences, is seeking two individuals to enhance a dynamic research environment in environmental health issues. Individuals with training and/or professional certification in an area of clinical laboratory medicine are encouraged to apply. Assistant Professor, Environmental Health Microbiologist: Development of an independent productive research program as well as participation in collaborations leading to funded research in the area of environmental health microbiology and bacterial genetics is expected. The position will involve teaching in the undergraduate and graduate programs in the Clinical Laboratory Sciences program and supervising graduate student research. A Ph.D. in bacteriology, microbiology, or an environmental health science field and expertise in the application of molecular microbial techniques to the study of environmental health issues are required.

Associate/Full Professor, Clinical/Environmental Health Toxicologist: The ideal candidate will be expected to have an established, extramurally funded and productive research program in the area of environmental and/or public health toxicology. The position involves teaching in the undergraduate and graduate programs in Clinical Laboratory Sciences and supervising graduate student research. Qualified candidates must have a Ph.D. degree in chemistry, toxicology, or an environmental health science field with strong knowledge, training, and research interests in the application of current techniques to the study of environmental health issues. Application and salary: Salary is competitive and dependent upon qualifications and experience. Both positions are ninemonth faculty appointments with opportunity for summer salary support. Full position descriptions are available. Interested individuals must send a cover letter, curriculum vitae, and three letters of recom-mendation to: Dr. L.M. Sabatini, Chair, Search Committee, University of Wisconsin-Milwaukee, Department of Health Sciences, P.O. Box 413, Milwaukee, WI 53201-0413. Website: http:// www.uwm.edu/sahp/. Applications must be post-marked by January 8, 2001. UWM is an Affinnative Action/Equal Opportunity Employer.

#### TENURE-TRACK ASSISTANT PROFESSOR CELL PHYSIOLOGY Tufts University

The Department of Biology invites applications for a tenure-track position at the Assistant Professor level to begin September 1, 2001. The applicant's research should focus on eukaryotic cell physiology, integrating several levels of complexity using plant or animal systems. Areas could include but are not limited to cellular signaling, host/pathogen interactions, or cell cycle control.

A Doctoral degree, postdoctoral experience, and a record of research productivity are required. The successful candidate will be expected to establish and maintain an active research program with extramural funding involving graduate and undergraduate students. Undergraduate teaching and advising is an important component of this position. Teaching responsibilities will include an intermediate or advanced course in an area of cell physiology as well as participation in team-taught lecture and laboratory courses. Applicants should submit curriculum vitae, three recent publications, separate statements of (1) research interests and goals and (2) teaching interests and experience, and should have three letters of reference sent to: Chair, Cell Physiologist Search Committee, Department of Biology, Tufts University, Medford, MA 02155. Review of applications begins December 20, 2000, and continues until the position is filled. The Department's website is: http://ase. tufts.edu/biology/.

Tufts University is an Affirmative Action/Equal Opportunity Employer. We are committed to increasing the diversity of our faculty. Members of underrepresented groups are strongly encouraged to apply.



#### DIRECTOR OF THE BROCKHOUSE INSTITUTE FOR MATERIALS RESEARCH Faculty of Science or Faculty of Engineering

The Brockhouse Institute for Materials Research at McMaster University invites applications from outstanding materials scientists or engineers for the position of the Director of the Institute at the rank of full professor. The Institute was founded at McMaster in 1967, and throughout its history has enjoyed the reputation of being the most successful interdisciplinary materials research organization within Canada. Currently there are approximately 50 academic staff, drawn from the Faculties of Science and Engineering, associated with the Institute, and 13 full-time support and technical staff. The Institute's facilities include a unique suite of equipment for crystal growth and materials preparation, materials characterization, electron optics and a photonics research laboratory. In addition to providing a central resource for materials research, the Institute promotes interdisciplinary research through participation in federal initiatives such as CFI (Canadian Foundation for Innovation) and provincial programs such as ORDCF (Ontario Research and Development Challenge Fund). Further information on the Institute can be obtained from: http://www. science.mcmaster.ca/bimr.

Applications are encouraged from individuals with a strong commitment to interdisciplinary materials research across the broad range of interests covered in the science and engineering faculties at McMaster. The university is renewing and expanding its capabilities in areas such as advanced materials and technologies, with particular emphasis on biomaterials and biotechnologies, new electronic materials, polymers, and nano-scale structures and manufacturing technologies. The Director will be expected to take a leadership role in promoting these areas of research, and would be cross-appointed to both the Faculties of Science and Engineering. It is anticipated that the Director would have an outstanding research record and will be nominated by the University for a senior Canada Research Chair (CRC). Complete information about the Canada Research Chair program can be obtained from: http://www.sshrc.ca.

Applicants should submit a curriculum vitae, a statement of their own research interests and future plans and how they envisage these fitting into the broader mandate of the Directorship and the University's plans (as outlined above), and letters from three referees, to:

#### Chair of the Selection Committee Brockhouse Institute for Materials Research McMaster University, Hamilton, Ontario, Canada L8S 4M1 Email: bimr@mcmaster.ca

McMaster University has an employment equity program that encourages applications from all qualified candidates, including women, aboriginal people, persons with disabilities and visible minorities. There is no restriction with regard to nationality or residence. Offers will be made in keeping with immigration requirements associated with the CRC program.

Applications will be considered beginning January 1, 2001. Applications received after that date will continue to be reviewed for the Directorship, if still open, and possibly for other positions made available through the Canada Research Chairs program.



### COLUMBIA EARTH INSTITUTE

### **POSTDOCTORAL PROGRAM**

The Columbia Earth Institute (www.earthinstitute.columbia.edu) is founded on the principle that the substantial environmental challenges facing our society are best addressed by teams of scholars from a wide array of disciplinary backgrounds. The Earth Institute is committed to knowledge generation and institutional innovation in facing these challenges.

The Earth Institute postdoctoral program is designed to provide young innovative scholars with the opportunity to build a foundation for a career in science that addresses critical issues related to the study of environmental problems using approaches that go beyond those typically confined by traditional disciplines. Specifically, we are seeking applications from candidates interested in working on problems positioned at the intersections between physical, biological, and social/economic fields. The fellowships are also expected to catalyze new research directions at Columbia. Earth Institute postdocs will be guided by multidisciplinary teams of two or more senior scholars. Applicants are encouraged to visit the Earth Institute postdoc Web site (www.earthinstitute.columbia. edu/postdoc/) to review a list of CEI units and several Columbia University and Barnard College departments. The fellowships will ordinarily be granted for a period of 24 months.

Two of the Earth Institute fellowships this year are 3-year, Mellon Foundation-sponsored position with Barnard College (www.barnard.edu). They are designed especially for candidates who are interested in building a foundation in teaching as well as in research. The incumbents will spend the first fellowship year establishing a research program along-side the other Earth Institute fellows; in the second and third years, research will be continued and a teaching program will be built in the undergraduate Environmental Sciences program at Barnard College.

Candidates should submit a proposal for multidisciplinary research and an appropriate work plan following instructions found at the Earth Institute postdoc web site. The proposal should suggest a composition for a small multi-disciplinary mentoring team (candidates for the Barnard position should include a Barnard mentor). Candidates for the Barnard teaching position must propose to work in an area that complements the Barnard faculty, include a description of their teaching goals, and commit to completing the 3-year term. Proposals will be evaluated by the Earth Institute Academic Committee on the basis of the strength of the research plan and its relevance to Earth Institute's goals.

A letter of application, proposal and work plan, curriculum vitae, and three (3) letters of recommendation should be sent to: Fellow Selection Committee, Columbia Earth Institute, 535 West 116th Street (Mail Code 4335), Columbia University, New York, NY 10027.

Applications submitted by February 1, 2001, will be considered for fellowships starting in the summer or fall of 2001, and fellowship offers will be made about March 15, 2001.

### Columbia University

Columbia University is an affirmative action/equal opportunity employer; minorities and women are encouraged to apply. Barnard College is an equal opportunity employer and encourages applications from individuals of diverse racial, ethnic, and cultural backgrounds.

#### TWO FACULTY POSITIONS IN COMPUTER SCIENCE University of Vermont

The Department of Computer Science at the University of Vermont invites applications for two tenure-track **ASSISTANT PROFESSORS** commeneing with the 2001–2002 academic year. Position One seeks candidates in networking, database systems, programming environments, and/or artificial intelligence, although exceptional candidates in any area of computer science will be seriously considered. Position Two seeks candidates in computational biology or bioinformatics to participate in a major development grant in computational and structural biology recently awarded by the U.S. Department of Energy. More information about the Department and both positions may be obtained from websites: http://

Candidates for either position should have a strong research record, hold a Doctorate in computer science or a closely related field, and have broad teaching abilities and interests. Please have a letter of interest indicating the position sought, curriculum vitae, a short statement of teaching interests, a short statement of research interests, and arrange for at least three letters of reference to be sent to: Chair, Faculty Search, Position (One or Two), Department of Computer Science, University of Vermont, Burlington, VT 05405 U.S.A. Complete applications received by January 22, 2001, will be fully considered. The University of Vermont is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.

#### FACULTY APPOINTMENT IN MOLECULAR RADIOBIOLOGY Taussig Cancer Center and The Lerner Research Institute Cleveland Clinic Foundation

The Departments of Radiation Oncology and Cancer Biology invite outstanding applications for a fac-ulty position at the ASSISTANT PROFESSOR lev-The successful candidate with a Ph.D. and/or M.D. degree and postdoctoral experience is expected to develop an independent, extramurally funded research program. Generous start-up funds, modern laboratory space in the newly opened Taussig Cancer Center, and access to outstanding core facilities in The Lerner Research Institute are provided. Areas of interest include DNA damage response, cell cycle control, and other fundamental research, which may lead to new approaches to radiation treatment. Candidates should be able to communicate effectively at the interface of basic science and clinical problems and be involved in basic and clinical collaborative projects. Those interested can learn more about our programs by visiting our websites: http://www.lerner. ccf.org/depts/cancerbio.html and http://www2. clevelandclinic.org/radonc/radoncccf.htm. Applications, including curriculum vitae, summary of research interests, and three letters of recommendation, should be sent to: Alex Almasan, Ph.D., Department of Cancer Biology NB-40, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-445-6269; e-mail: almasaa@ccf.org (only inquiries).

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

#### ASSISTANT/ASSOCIATE PROFESSOR

One long-term-track faculty position. Begin August 2001. Ph.D. required; primary teaching responsibilities include undergraduate anatomy and physiology (A/P) laboratories and freshman biology courses. Occasional opportunity to teach A/P nonlaboratory courses as well as some graduate courses. Experience in small liberal arts college environment preferred. Responsibilities include academic advising and committee work; no opportunity or expectation for research. Strong record of teaching excellence and scholarship desirable. Letter stating interests; complete résumé; transcripts; and three letters of reference due prior to January 5, 2001, to: Sr. John Karen Frei, Dean, School of Natural and Health Sciences, Barry University, Miami Shores, FL 33161.

#### POSITIONS OPEN

#### ENVIRONMENTAL GEOSCIENCE

The Department of Earth and Environmental Science at the University of Pennsylvania invites applications for a tenure-track faculty position in environmental geoscience. The candidate may join established research programs in paleoclimatology, biogeochemistry, terrestrial geobiology, marine ecology and paleoecology, and/or geologic engineering or may pursue some other aspect of environmental geoscience.

The successful candidate will be expected to maintain an active research program while teaching graduate courses in his/her research specialty to Ph.D. candidates and to degree candidates in a professional Master of Environmental Studies (MES) curriculum and undergraduate courses to majors in environmental studies, geology, paleobiology, and/or occanography.

The successful candidate will be expected to assume (over the next few years) administrative responsibility for B.A. and MES programs in environment studies; thus, this appointment will be made at the level of ASSOCIATE or FULL PROFESSOR.

Further information about programs in the Department of Earth and Environmental Science at the University of Pennsylvania may be sought at **website:** www.sas.upenn.edu/earth/.

Applicants should submit résumés, statements of research and teaching interests, and a selection of representative reprints to:

Robert Giegengack Environmental Geoscience Search Committee Department of Earth and Environmental Science University of Pennsylvania Philadelphia, PA 19104-6316 U.S.A. E-mail: earth@sas.upenn.edu

The Search Committee will begin to evaluate applications in December 2000; the search will remain open until the position is filled.

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

#### ASSISTANT PROFESSOR TENURE-TRACK FACULTY POSITION

The Department of Biology, University of Dayton, invites applications for a tenure-track Assistant Professor position. We seek an individual with primary research and teaching interests in molecular genetics. The subject of research interest is open, but candidates are expected to apply modern molecular and genetic techniques to address fundamental biological questions. The successful candidate will be expected to develop an independent, funded research program involving Ph.D., M.S., and undergraduate students. Applicants must have (1) a Ph.D. with postdoctoral experience, (2) a commitment to excellence in teaching at the undergraduate and graduate level, and (3) demonstrated ability to conduct independent research as judged by peer-reviewed publications. Teaching assignments will include a sophomore-level course in genetics as well as the opportunity to teach a course in his/her specialty to graduate and upperdivision undergraduates. To apply, send curriculum vitae, statements of research direction and teaching interests, selected reprints, and at least three letters of recommendation. Applications received by December 17, 2000, will be given full consideration. Address all correspondence to: Dr. Jayne Robinson, Chair, Genetics Search Committee, Department of Biology, University of Dayton, 300 College Park, Dayton, OH 45469-2320.

The University of Dayton is a private university located in the Dayton-Cincinnati metroplex area. The Department of Biology at the University of Dayton is committed to excellence in research and teaching. Please visit our website: http://biology. udayton.edu for further information. The University of Dayton is an Affirmative Action/Equal Opportunity Employer. Women, minorities, individuals with disabilities, and vererans are strongly encouraged to apply. The University of Dayton is firmly committed to the principle of diversity.

#### POSITIONS OPEN

#### TENURED POSITION IN BIOCHEMISTRY UNIVERSITY OF WISCONSIN-MADISON

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a position at the ASSOCIATE or FULL PROFESSOR (tenured) level or nominations of individuals to fill this position. Applications in all research areas are invited. The University and Department provide an excellent environment for the development of an outstanding research program. The laboratory of the appointed candidate will be housed in a new facility, and the position will be partially supported by a substantial endowment. The successful candidate will be expected to continue a vigorous independent research program and participate in the undergraduate and graduate teaching programs of the Department. Applications, including curriculum vitae, list of publications, and a brief summary of accomplishments and direction of future research, should be sent to: Professor H. F. DeLuca, Chair, Department of Biochemistry, University of Wisconsin-Madison, 433 Bab-cock Drive, Madison, WI 53706-1544. Applications should be received by February 1, 2001, but the search will continue until a suitable applicant is identified. The University of Wisconsin is an Affirmative Action/ Equal Opportunity Employer and encourages applications from women and minorities. Under Wisconsin statutes, names, titles, and addresses of applicants may be subject to public release upon request.

**RESEARCH ENTOMOLOGIST/RESEARCH** BIOLOGIST. GS-11/12. U.S. Department of Agriculture, Agricultural Research Service (USDA-ARS), Western Cotton Research Laboratory, Phoenix, Arizona, has a permanent full-time vacancy. The incumbent uses modern approaches in the study of physiological processes of insect pests and/or their associated natural enemies with emphasis on pink bollworm, Lygus bug, and sweet potato/silverleaf whitefly. Research areas may include but are not limited to reproduction, behavior, nutrition, diapause, insect-host plant interactions, and environmental adaptation. The incumbent should have experience in applying a range of physiological, biochemical, chemical, and/or molecular methods and techniques to the investigation of complex problems in insect physiology, skills in the design and execution of experiments, and familiarity with statistical methods and data analysis. Salary range is \$41,834 to \$65,179 per year. The full text vacancy announcement and application instructions may be obtained via the website: www. ars.usda.gov or call Michael Wiggett; Telephone: 602-379-3714, extension 281. Indicate announcement number ARS-X1W-1058. Incomplete applications will not receive consideration. Applications must be postmarked by December 18, 2000. Applicants must be U.S. citizens. For more information, contact: Dr. T. J. Henneberry; Telephone: 602-379-3524, extension 236. USDA-ARS is an Equal Opportunity Employer.

#### ROBERT AND GENEVIEVE PATRICK CHAIR IN WATERSHED SCIENCE AND PLANNING The School of Natural Resources The University of Vermont

Position: ASSOCIATE/FULL PROFESSOR in watershed science and planning for fall 2001. Salary: competitive. Qualifications: Ph.D.; record of scholarly accomplishment and collaborative leadership in watershed science and/or planning. Responsibilities: Develop strong, multidisciplinary research program with water emphasis. Teach courses in watershed science and planning and in specialty area. Application: Submit letter of intent; curriculum vitae; and names, addresses, e-mail addresses and telephone numbers for three references to: Patrick Chair Search Committee, c/o Murphy MacLean, 320 Aiken Center, The University of Vermont, Burlington, VT 05405. Visit our website: www.snr.uvm.edu/ Patrick\_Chair\_Search. Review of applications begins January 8, 2001, and continues until position is filled. UVM is an Equal Opportunity/Affirmative Action Employer

NATIONAL INSTITUTES OF HEALTH NATIONAL EYE INSTITUTE

### **Job Opportunities**

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly gualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- Molecular Biology
- Biochemistry
- Cell Biology
- Epidemiology
- Immunology
- Psychophysics
- Biostatistics

#### Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at http://www.nei.nih.gov/ listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer

#### Vanderbilt

The Department of Pharmacology in the Vanderbilt University School of Medicine is recruiting faculty in the area of Signal Transduction. We invite applications for faculty positions at the Assistant, Associate and Full Professor level from individuals using molecular, biochemical, cellular and structural approaches in such areas of signal transduction as signaling complexes, novel approaches to studies of networks of signaling pathways, lipid signaling, and structural studies of signaling molecules. Reply to Dr. Elaine Sanders-Bush, Signal Transduction Search Committee, Vanderbilt University School of Medicine, 476 Robinson Research Building, Nashville, TN 37232-6600.

The Vanderbilt Center for Molecular Neuroscience solicits applications at the Assistant to Professor level as part of a new expansion of research facilities and programs in Neural Development/Molecular Neuroscience and Neurogenetics. Key areas of interest include: 1) development of the mammalian brain, emphasizing murine models, 2) identification and imaging of macromolecular complexes controlling neuronal excitability, secretion and signaling, 3) psychoactive drug action modeled in genetically altered mice and, 4) genomics/proteomic analyses of neurologic/ psychiatric models. Appointed faculty will have primary appointments in basic and/or clinical departments at Vanderbilt and participate in the Graduate Program in Neuroscience. Reply to Dr. Randy Blakely, Molecular Neuroscience Search Committee, Vanderbilt University School of Medicine, 417 Preston Research Building, Nashville, TN 37232-6420.

Candidates should send curriculum vitae, description of research interests and accomplishments, and supporting letters from at least three mentors or former colleagues.

Vanderbilt is an Affirmative Action/Equal Opportunity Employer

### Minority Opportunities at the Marine Biological Laboratory

#### Josiah Macy, Jr. Foundation Research Fellowships

2001 Summer Fellowships sponsored by the Josiah Macy, Jr. Foundation at the Marine Biological Laboratory (MBL) are available to three minority junior or senior faculty members to pursue independent research projects at the MBL. A unique feature of these fellowships provides for each faculty member to select a student to accompany him or her in this research undertaking. These fellowships provide travel, housing, laboratory, and research expenses for investigators and students as well as a weekly stipend for students.

Application deadline: January 15, 2001 The MBL Fellowship Committee will review applications. Notification of decisions will be mailed by March 15.

For forms and additional information, please contact: Fellowship Coordinator, Office of Education Marine Biological Laboratory 7 MBL Street, Woods Hole, MA 02543-1015 (508) 289-7441 / E-mail: skaufman@mbl.edu Web-site: http://www.mbl.edu

#### Summer Program in Neuroscience, Ethics, and Survival (SPINES) June 9 - July 7, 2001

This program provides a rich experience in neuroscience in seminar, lecture, and demonstration format; in ethics using case studies; and in survival skills such as grant writing, teaching, and public speaking, using a lecture and workshop format. Students also attend lectures in either the Neural Systems & Behavior or the Neurobiology courses. Fellowships are available to augment the training of both pre- and post-doctoral students. The program is targeted to groups underrepresented in science (African-American, Hispanic American, and Native American), although applications from any qualified student are welcome. SPINES is funded by a grant from the National Institute of Mental Health.

Directors: Joe L. Martinez, University of Texas at San Antonio; and James Townsel, Meharry Medical College.

Application Deadline: February 1, 2001

Contact: Admissions Coordinator, Office of Education Marine Biological Laboratory 7 MBL Street, Woods Hole, MA 02543-1015 (508) 289-7401 / E-mail: admissions@mbl.edu Web-site: http://courses.mbl.edu

The MBL is an EEO/Affirmative Action Institution

#### ECOLOGIST

The Institute of Ecosystem Studies (IES; website: www.ecostudies.org) seeks to appoint an Ecologist in fall 2001 as ASSISTANT SCIENTIST (equivalent to Assistant Professor). Area of specialization open and can include the interface of ecology and other disciplines. Doctorate, demonstrated excellence in research, and interest in collaborative research required.

Applicants should submit a letter of application, a one-page statement of research interests, and curriculum vitae to: Suzanne S. Atherly, Manager of Human Resources, Institute of Ecosystem Studies, P.O. Box AB, Millbrook, NY 12545 U.S.A. or send to e-mail: jobs@ccostudies.org. Please do not provide letters of reference at this time. Application deadline: January 15, 2001. For questions about this position, contact: Dr. Peter M. Groffman (Search Committee Chair) at e-mail: groffmanP@ ecostudies.org.

The Institute of Ecosystem Studies is an Affirmative Action/ Equal Employment Opportunity Employer. Women and/or members of racial minority groups are strongly encouraged to apply.

#### ASSISTANT PROFESSOR DEVELOPMENTAL BIOLOGY

The Department of Cellular Biology at the University of Georgia invites applications for a tenure-track Assistant Professor in the area of developmental biology. The successful candidate must have postdoctoral experience and will be expected to develop a strong, extramurally funded research program and contribute to graduate and undergraduate teaching. The position is available fall semester 2001. To apply, send curriculum vitae, statements of research interest and teaching philosophy, and three letters of recommendation to: Developmental Biology Search Committee, Department of Cellular Biology, University of Georgia, Athens, GA 30607-2607. Applications received by December 15, 2000, are assured of consideration. The University of Georgia is an Equal Opportunity/Affirmative Action Employer. We encourage applications from minorities and women.

IMMUNOLOGY FACULTY POSITION: The Section of Rheumatology and the Committee on Imnunology at the University of Chicago are seeking applicants for an ASSISTANT or ASSOCIATE PROFESSOR tenure-track faculty position. We are particularly interested in individuals with expertise in lymphocyte activation or development who can interact with ongoing programs at the University. The successful candidate will be expected to establish an independent, externally funded research program and participate in graduate student teaching. Applicants with M.D. and/or Ph.D. degrees will be considered. Those wishing to pursue clinical activities should be Board-certified/Board-eligible in rheumatology. Interested individuals should send curriculum vitae and a research plan to: Marcus Clark, M.D., Chief, Section of Rheumatology, Department of Medicine, Committee on Immunology, The University of Chicago, 5841 South Maryland Avenue, MC 0930, Chicago, IL 60637. Telephone: 773-702-0202. Affirmative Action/Equal Opportunity Employer.

Biology Department of Indiana University South-east is seeking an ASSISTANT PROFESSOR for a tenure-track position. A Ph.D. in eukaryotic cell biology and postdoctoral experience are required. Teaching includes cell biology, introductory biology, and possible courses in the candidate's area of expertise. The candidate is expected to establish a viable research program that includes undergraduate research and research space; start-up funds will be provided. Submit curriculum vitae; unofficial copies of transcripts; separate statements of teaching and research interests; three most recent reprints; and names and addresses (including e-mail) of three references by December 22, 2000, to: Chair, Cell Biologist Search Committee, c/o Human Resources, LB-002, 4201 Grant Line Road, New Albany, IN 47150. Indiana University Southeast is an Affirmative Action/Equal Opportunity Employer.

#### POSITIONS OPEN

#### TWO POSITIONS: CELL/MOLECULAR BIOLOGIST AND DEVELOPMENTAL BIOLOGIST

The Department of Zoology, University of Oklahoma, seeks to fill two tenure-track positions begin-ning in the fall of 2001 at the ASSISTANT PRO-FESSOR level for individuals carrying out research that addresses fundamental questions in molecular, cellular, or developmental biology. Teaching responsibilities will be one course per semester. One successful candidate will teach an undergraduate cell biology course each year and the other will teach an undergraduate animal development course each year. The other semester's teaching would be an undergraduate or graduate course in the candidate's area of expertise. Candidates must have a Ph.D. with a strong commitment toward effective teaching with interests in both undergraduate and graduate instruction and a demonstrated ability to conduct significant independent research as judged by publications. Preference will be given to candidates who complement and strengthen the Department's areas of emphasis in molecular/ cellular/developmental biology, behavioral neuroscience/comparative physiology, and/or evolution/ ecology/behavior. More information is available at website: http://www.ou.edu/cas/zoology/. Screening begins I December 2000 and will continue until position is filled. Send curriculum vitae, four letters of recommendation, reprints, summary of teaching experience, and description of research interests to: James N. Thompson, Jr., Chair, Department of Zoology, University of Oklahoma, Norman, OK 73019. An Equal Opportunity/Affirmative Action Employer. University of Oklahoma has a policy of being responsive to the needs of dual-career couples.

#### FACULTY POSITIONS CENTER FOR CARDIOVASCULAR DEVELOPMENT

The Center for Cardiovascular Development at Baylor College of Medicine seeks two tenure-track faculty members at the **ASSISTANT PROFESSOR** level. Outstanding senior candidates will also be considered. Faculty appointments will be made through the Department of Medicine and the Department of Molecular and Cellular Biology. We seek candidates applying genetic or genomic methods to development of the heart or vasculature. Applicants with expertise in the molecular biology of angiogenesis are encouraged. A Ph.D. or M.D. degree and postdoctoral experience are required.

Candidates should forward curriculum vitae and summary of research plans and arrange for three letters of recommendation to be sent by January 15, 2001, to: Search Committee, Center for Cardiovascular Development, Baylor College of Medicine, One Baylor Plaza, Room 506C, Houston, TX 77030. For further information, contact: Dr. Michael D. Schneider; Telephone: 713-798-6683; e-mail: michaels@bcm.tmc.edu or Dr. Robert J. Schwartz; Telephone: 713-798-6649; e-mail: schwartz@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE/FULL PROFESSOR: cancer research. The Department of Pathology, University of Tennessee, invites applications for state-supported tenure-track position available July 1, 2001. Appli-cants must possess D.V.M., M.D., or Ph.D. degree or equivalent and have significant active research funding. Successful applicants will collaborate with funded programs in lung, colon, prostate and pancreatic cancer, arachidonic acid pathobiology, receptor molecular biology, and signal transduction. Highly competitive salary and generous start-up package will be offered. Send research activities, funding levels, curriculum vitae, three references to: Dr. Hildegard Schuller, Department of Pathology, The University of Tennessee, 2407 River Drive, Knoxville, TN 37996. E-mail: hschulle@utk.edu. The University of Tennessee is an Equal Employment Opportunity/ Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.

#### POSITIONS OPEN

#### TWO TENURE-TRACK FACULTY POSITIONS Biochemistry and Microbial Genetics The University of Montana-Missoula

The Division of Biological Sciences (website: http://biology.umt.edu/dbs) invites applications for two tenure-track faculty positions to begin fall 2001.

Microbial Genetics (ASSISTANT PROFESSOR): Research interests in the genetic basis of microbial interactions with other organisms or response to environmental conditions. The successful candidate will contribute to programmatic emphases that include microbial ecology, infectious pathogenesis, and molecular structure/function. Requires Ph.D. in microbial genetics, microbiology, or related field. Teaching expectations are an advanced undergraduate course in microbiology curriculum, and graduate course in area of specialty.

Biochemistry (ASSISTANT/ASSOCIATE PRO-FESSOR): Research interest in biochemistry of the nervous system with emphasis on membrane biochemistry, transport, signal transduction, and/or neuronal pathogenesis. The successful candidate will be an active member of and expected to contribute to programs in the Division and in a newly funded NIH Center for Biomedical Excellence (COBRE) in structural and functional neuroscience at The University of Montana; research in the Center focuses on CNS protein structure/function as related to signal transduction, transport, pathogenesis, and neurodegeneration. Teaching expectations include courses in biochemistry and specialty areas. Position is one of several new hires in three academic units that contribute to the Center.

The successful candidate for each position is expected to develop a vigorous, externally funded research program; mentor graduate and undergraduate students; and teach courses. Requirements are a Doctoral degree, strong record of research accomplishments, postdoctoral experience, and teaching experience. Send letter of application, curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: M. Minnick, Chair, Biochemist Search Committee or J. Gannon, Chair, Microbial Geneticist Search Committee, Division of Biological Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-5122; FAX: 406-243-4184. Applications received by December 22, 2000, will receive full consideration. Equal Opportunity/Affirmative Action Employer.

#### CHAIR, DEPARTMENT OF MOLECULAR SCIENCES The University of Tennessee Health Science Center Memphis, Tennessee

The College of Medicine of the University of Tennessee Health Science Center seeks nominations and applications for the Chair of the Department of Molecular sciences. This new department has been formed from the existing departments of (1) biochemistry and (2) microbiology and immunology and will have more than 30 tenure-track faculty positions with substantial space in a modern research building. Applicants should hold the Ph.D. or M.D. degree and possess an outstanding record of accomplishment in basic research and education of both graduate and professional degree students.

Applicants are requested to send curriculum vitae and the names and addresses of three references along with a letter stating their interest to:

Leonard R. Johnson, Ph.D. Chairman, Molecular Sciences Advisory Committee The University of Tennessee Health Science Center 800 Madison Avenue P.O. Box 63647 Memphis, TN 38163

The University of Tennessee is an Equal Opportunity/ Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.



#### Postdoctoral Positions

Postdoctoral positions are available at the Department of Nuclear Medicine, National Institutes of Health in Bethesda, MD to study the effects of ionizing radiation on molecular and cellular levels. Specific areas of research include chemical structure of DNA damage sites, DNA repair and use of localized energy deposition for probing of DNA/RNA structure or radioprobing, (Nature Struct. Biol., 6, 747-750 (1999)) and targeting of radiolabeled probes to specific sequences in DNA and RNA for imaging and therapy. Approaches include chemical synthesis of radiolabeled probes, their delivery into cells and analysis of the produced damage. Candidates should have a Ph.D. or M.D. degree and less than 5 years of post-doctoral experience. Background in organic chemistry of nucleic acids and/or molecular radiobiology is preferred. Send CV with list of publications, a brief description of research experience and names and addresses of 3 references to: Dr. Igor Panyutin, 10 Center Dr., Room 1C401, Bethesda, MD 20892-1180.

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The University of Virginia seeks a Dean for its College and Graduate School of Arts and Sciences. The College and Graduate School include some 26 departments in the arts, humanities, sciences, and social sciences. The dean reports to the University's provost.

The qualities desired in the dean include scholarly prominence in a relevant academic discipline, success in progressively more responsible levels of academic leadership, and the capacity to lead a diverse faculty and student body. The dean will also be expected to collaborate with the deans of the University's other schools in promoting the University's general well being and to direct programmatic and financial planning for the College and the Graduate School. Duties include leading and serving the College's faculty and students in their academic pursuits; maintaining effective working relationships with alumni (particularly with the trustees of the newly-formed College Foundation); cultivating effective leadership in the academic departments, sustaining the College's traditional disciplinary core, developing interdisciplinary collaborations and curricular innovations, fostering public service; and allocating resources fairly and strategically.

The committee will seek credentials sufficient to support appointment to a senior, tenured professorship in a College department. It seeks evidence of dedication, flexibility, and the capacity to raise private funds to bridge the gap between available central or state resources and the costs of the enterprise. The new dean must demonstrate a serious commitment to the promotion of equity in all aspects of the work of the University, particularly in the hiring and retaining of persons from underrepresented minority groups.

The initial appointment is for a five-year term beginning prior to the 2001-2002 academic year. Review of applications and nominations will begin on January 5, 2001, and continue until the position is filled. Applications and nominations should include a statement or third-party assessment of interest as well as a summary of the candidate's qualifications for the position, a current resume or curriculum vitae, and the names of five references with current addresses. These materials, which will be held in strict confidence, should be sent to:

Gene D. Block, Ph.D., Chair Dean's Search Committee University of Virginia P. O. Box 400226 Charlottesville, VA 22904-4226 The University of Virginia is an Affirmative Action/Equal Opportunity employer.



Faculty Positions in Biochemistry and Developmental Genetics at the University at Albany State University of New York

As part of a University-wide expansion in the Life Sciences, the Department of Biological Sciences (www.albany.edu/biology) invites applications for two tenure track positions at the assistant or associate professor level. One position will be in the Physical Biochemistry of Biomolecules to build on the themes of structural genomics/proteomics, biomolecular structure/function and interactions, mechanistic enzymology, and nucleic acid chemistry and function. The other position will be in Developmental Genetics to complement faculty working on pattern formation, cellular differentiation, growth factors, gene regulation and neural development. Successful candidates will be expected to establish an externally funded research program and participate in graduate and undergraduate teaching. Preference will be given to those applicants whose research contributes to the University's initiatives in comparative functional genomics and proteomics.

Available facilities include a biological imaging facility and the University's Center for Comparative Functional Genomics (www.albany.edu/genomics), which houses one of four NIH funded Mutant Mouse Resource Centers and offers state-of-the-art core facilities for transgenic mice, DNA microarrays, molecular biology, bioinformatics, and biochemical/biophysical instrumentation. In addition, construction of a new 160,000 sq. ft. Life Sciences research building will begin in 2001.

Please send a curriculum vitae, a research statement and at least three letters of reference to Faculty Search Committee, Department of Biological Sciences, University at Albany, 1400 Washington Avenue, Albany, NY 12222. Review of applications will begin on January 15, 2001 and continue until the position is filled. Positions pending final budget approval.

The University at Albany is an Equal Opportunity/Affirmative Action Employer/ Immigration Reform and Control Act/Americans with Disabilities Act employer.

#### **Senior Fellow in Bioinformatics**

The National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA,

invites applications for a position in its Biotechnology Core Facility's Computational Molecular Biology laboratory. The incumbent will collaborate closely with molecular biologists, and take responsibility for computational aspects of genomic sequencing projects: gene discovery, annotation, phylogenetic analysis, and the creation of webbased, curated databases of sequence and other data relating to specific pathogen families.

Candidates must meet the basic qualifications for the GS13 level of the federal civil service, and have a doctorate degree in a biological or computer science with significant experience in computational molecular biology, good communication skills, and a record of publications. Annual salary in the range \$60,000 to \$92,300 depends on qualifications.

Applicants should send curriculum vitae by December 15 to:

Benita Minor CDC / HRMO 1600 Clifton Road Mailstop C-19 Atlanta, GA 30333 email: bminor@cdc.gov

CDC is an equal opportunity employer and has a smoke-free environment.

#### FACULTY POSITIONS IN CHEMISTRY AND BIOLOGY ILLINOIS INSTITUTE OF TECHNOLOGY

The divisions of Chemistry and Biology in the Biological, Chemical, and Physical Sciences (BCPS) Department at IIT seek applications from outstanding candidates for full-time tenure-track faculty positions. The successful candidates will hold the Ph.D. degree or equivalent and will have significant postdoctoral experience. Applicants with experience in computational chemistry and interests in cross-disciplinary research that complement existing strengths in synthetic inorganic and organic chemistry, polymer chemistry, biophysical chemistry, and structure-based drug design are particularly encouraged to apply for the chemistry position. The successful candidate for the biology position will complement existing strengths in prokaryotic genetic engineering, structural biochemistry, and X-ray-based biophysics. Candidates with experience in bioinformatics and structural genomics are particularly encouraged to apply. Competitive start-up packages will be provided. The successful candidates are expected to initiate vigorous research programs suitable for external support and to teach at the undergraduate and graduate levels. Ap-pointments will be made at the ASSISTANT PRO-FESSOR level. The appointments will begin August 2001. The BCPS Department at IIT offers programs leading to the Ph.D. in a well-defined interdisciplinary program, molecular biophysics and biochemistry (MBB), as well as in the traditional areas of biology, chemistry, and physics (see website: www.iit.edu/ bcps for further information). Screening of applications will begin January 15, 2001.

Interested applicants should send curriculum vitae, description of their research goals, and arrange to have three letters of reference sent to:

> Dr. H. Larry Scott, Chair Department of Biological, Chemical, and Physical Sciences Illinois Institute of Technology 3101 South Dearborn Street Chicago IL 60616

Illinois Institute of Technology adheres to Affirmative Action/ Equal Employment Opportunity policies and strongly encourages applications from minority group members and women.

#### ECOLOGICAL STATISTICIAN

The University of Georgia's Savannah River Ecology Laboratory (SREL) is seeking a broadly trained Statistician with an interest in ecological applications. Ph.D. in statistics or related area is required; expertise in spatial statistics for GIS applications would be preferred. Responsibilities will be divided between re-search (approximately 60%) and consulting on research design and statistical analyses (approximately 40%). The successful candidate will be expected to establish an independent research program, develop interactions with other SREL faculty, and obtain external funding. Located on the Department of Energy's Savannah River site near Aiken, South Carolina, SREL conducts research on ecology, toxicology, environmental chemistry, radioecology, and the effects of human activities on the ecosystem; see website: http://www.uga.edu/srel/. Appointment will be at the rank of ASSISTANT or ASSOCIATE RE-SEARCH PROFESSOR at the University of Georgia; a tenure-track appointment with an academic unit may be negotiable. The candidate must qualify for a security clearance. Please submit a cover letter, curriculum vitae, description of research interests, and list of five references to:

#### Statistician Search Coordinator Savannah River Ecology Laboratory Drawer E

Aiken, SC 29802

Applications received by December 15, 2000, are assured of consideration.

SREL/UGA is an Equal Opportunity/Affirative Action Employer.

#### POSITIONS OPEN



#### FACULTY POSITIONS CARDIOVASCULAR PHYSIOLOGY PHYSIOLOGY OF AGING University of Pennsylvania School of Medicine

Department of Physiology

The Department of Physiology seeks independent researchers in the areas of cardiovascular physiology and the physiology of aging for **ASSISTANT PRO-FESSOR** (tenure track) and/or tenured positions (**ASSOCIATE** or **FULL PROFESSOR**). Applicants must have a Ph.D. and/or M.D. Successful candidates will combine molecular and cellular approaches with functional assessment at the whole organ and/ or organism level. Submit curriculum vitae; full list of publications; names and addresses of three references; and a brief statement of research interests by December 31, 2000, to: Physiology Search Committee, 3700 Hamilton Walk B400, Philadelphia, PA **19104-6085**. Penn is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority applicants are encouraged to apply.

#### VICTOR J. BAXT CHAIR CHEMICAL ENGINEERING

Ph.D. with at least one degree in chemical engineering or a closely allied field required. Area of expertise and future interests should be polymer engineering. Must have a distinguished record of critical accomplishments that is commensurate with the level of application and their current position in either industry, academics, or government research laboratories. Must possess the ability to develop an internationally recognized research program with both government and industrial support. Evidence of teaching abilities or mentoring is desirable. This is a tenured tenure-track position at an open rank, with a preference for applicants at the **ASSISTANT** or **ASSOCI**-ATE PROFESSOR level. Candidate screening will begin on November 1, 2000, and will continue until the position is filled. Applications, including a letter of interest, current curriculum vitae, statements of future research and teaching plans, and names of at least three references, should be forwarded to: Victor J. Baxt Chair, Chemical Engineering (Log Number SM081072), University of Rhode Island, P.O. Box G, Kingston, RI 02881. The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is strongly committed to achieving excellence through increased diversity of its faculty, staff, and students. Persons from underrepresented groups are encouraged to apply.

#### FACULTY POSITION GENITOURINARY CANCER RESEARCH

The Department of Surgery/Urology at University of Kentucky invites applications for the James F. Hardymon Chair of Urologic Research. This new Chair of Urologic Research represents a \$2 million Endowed Chair established this year.

Applicants are being sought who have a particular interest in cellular biology and transgenic animal model development in the context of prostate cancer. The successful applicant will have an **ASSOCIATE** or **PROFESSOR**-level appointment, although inquiries from established junior faculty and from more senior candidates are welcome. This position represents expansion of an established prostate cancer research program involving the University of Kentucky Departments of Surgery, Radiation Oncology, Physiology, and Microbiology, etc.

Applicants should send curriculum vitae, reprints of significant publications, a statement of research interests, and arrange to have letters of reference sent to: James F. Hardymon Chair of Urologic Research

c/o James R. Herman, M.D., Ph.D. University of Kentucky Surgery/Urology 800 Rose Street, MS269 Lexington, KY 40536-0298 E-mail: jherman@pop.uky.edu Website: www.uky.edu

#### POSITIONS OPEN

#### VIROLOGIST POSITION

The Department of Microbiology and Immunoloat The Uniformed Services University of the Health Sciences invites applications from Virologists for a full-time, tenure-track position at the ASSIST-ANT PROFESSOR level. Candidates must possess a Ph.D. degree or its equivalent, postdoctoral experi-ence, and a demonstrated record of outstanding research productivity in human viral diseases. Applicants are expected to develop a strong and independent research program in the areas of virus-host cell interactions, viral pathogenesis, viral oncogenesis, or viral immunology. The expertise of the successful candidate is expected to complement the research programs of the existing Virologists at the University whose interests include molecular biology of human retroviruses, mechanisms of viral entry, gene expression and cell transformation, and HIV vaccine development. The candidate must also demonstrate a strong commitment to the teaching mission of the Department. His/her responsibilities in this area will include providing instruction to medical as well as graduate students; the latter are enrolled in one of three interdisciplinary programs (emerging infectious diseases, molecular and cellular biology, or neuroscience). Interested individuals should submit the following:

Interested individuals should submit the following: a letter of application; curriculum vitae; a statement of research interests and goals; and the names, telephone numbers, and addresses of three references. All materials should be sent to:

#### Chou-Zen Giam, Ph.D. Chair, Search Committee Department of Microbiology and Immunology Uniformed Services University of the Health Sciences 4301 Jones Bridge Road Bethesda, MD 20814-4799

The deadline for submission of applications is January 31, 2001. The Uniformed Services University of the Health Sciences is an Equal Opportunity/Affirmative Action Employer.

#### FACULTY POSITIONS CENTRAL WASHINGTON UNIVERSITY

The Biological Sciences Department invites applications for two nine-month, tenure-track ASSIST-ANT/ASSOCIATE PROFESSOR positions to begin September 2001: (1) Botanist/Forest Ecologist with expertise to support our program in regional environmental biology and (2) Geneticist with expertise to support ecology/evolutionary biology or preprofessional studies. Both positions require a broad academic background in biology and a Ph.D. in an appropriate field. Candidates should be prepared to teach introductory courses as well as advanced courses in their discipline and demonstrate a commitment to research involving students. Screening will begin January 5, 2001. For position details and application procedures, see our website: http://www.cwu. edu/~biology or contact: Search Committee Chairs; Botanist/Forest Ecologist: Dr. D. Darda; e-mail: dardad@cwu.edu; Telephone: 509-963-1333. Geneticist: Dr. P. James; e-mail: jamesp@cwu.edu; Telephone: 509-963-1895. Affirmative Action/Equal Employment Opportunity/Title IX Institution.

#### DEPARTMENT CHAIR Department of Plant, Soil, and General Agriculture

#### Southern Illinois University Carbondale (SIUC)

Candidates are sought to serve as Chair of the Department. We are the largest department in the nation's leading nonland-grant College of Agriculture. We function within the north central region of NASULGC. Inquiries before January 3, 2001, to: Professor Lightfoot, Chair, Search Committee, Department of Plant, Soil, and General Agriculture, SIUC, Carbondale, IL 62901-4415. Telephone: 618-453-1797; FAX: 618-453-7457; email: ga4082@siu.edu. A full position description is available at website: www.siu.edu/~affact/ag39. html. SIUC is an Affirmative Action/Equal Opportunity Employer.

#### **ANNOUNCEMENTS**

#### NIH INTER-INSTITUTE PILOT PROGRAM FOR THE DEVELOPMENT OF AIDS-RELATED THERAPEUTICS

The National Institute of Allergy and Infectious Diseases (NIAID) and National Cancer Institute (NCI) invite the submission of proposals to their new drug development program initiative. This pilot program is designed to help AIDS research investigators facilitate the preclinical development of: 1) therapies for the treatment of HIV disease, AIDS-associated malignancies, opportunistic infections and tuberculosis associated with AIDS, and 2) microbicide-based prevention strategies for HIV. The program does not fund grants. Instead, applications to the program are requests to NIAID and NCI to use their drug development resources to conduct specific tasks the applicants themselves are unable to carry out in their efforts to translate basic research findings to applied or clinical practice. Examples of tasks that may be requested include High Throughput Screen (HTS) assay development, evaluation in animal efficacy models, Good Manufacturing Practice (GMP) scale-up synthesis of small molecules and biologics, clinical dosage formulation and manufacturing, and Good Laboratory Practice (GLP) toxicology. Program proposals will be solicited twice a year and reviewed in a competitive manner.

The current deadline for receipt of applications is January 15, 2001; prior to that date (no later than January 2) a Letter of Interest must be submitted to the Inter-Institute Program Coordinator. Further information about this program, including detailed instructions for preparing proposals and the Letter of Interest, can be found at the pilot program web site at http://dtp.nci.nih.gov/docs/dart.html. Telephone inquiries can be made to the Inter-Institute Program Coordinator, James Drake, Developmental Therapeutics Program, NCI, Executive Plaza North Building, Suite 8000, 6130 Executive Boulevard, Rockville, MD 20852, T 301.496.8720; F 301.402.0831.

NCI is an Equal Opportunity Employer

#### **ANNOUNCEMENTS**

	SCIENCE-RESEARCH SCHOLARSHIP AVAILABLE Opportunities for Outstanding Students
<u>~</u> U.	NATIONAL INSTITUTES OF HEALTH Undergraduate Scholarship Program
Qualified	The UGSP is sponsored by the National Institutes of Health
undergraduates	(NIH), the Federal Government's premier biomedical research and research training agency. NIH offers scholarships to gualified students who are committed to a career in
can train and be	biomedical research.
mentored at the	Scholarships of up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board,
cutting edge of	transportation) while students pursue an undergraduate degree.
biomedical	For each award year, scholars work 10 weeks with salary/ benefits in our research laboratories in Bethesda, Maryland.
research while	They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with
receiving	housing and transportation. After graduation, they work 1 year of full-time employment at NIH for each year of
scholarship	scholarship award.
support.	THIS IS A SPECIAL OPPORTUNITY FOR SPECIAL STUDENTS!
	Advise students to apply if they:
	<ul> <li>Are committed to a career in biomedical research;</li> </ul>
NIH is	<ul> <li>Are from a disadvantaged background;</li> </ul>
	<ul> <li>Have a GPA of at least 3.5 or are in the top 5 percent of their class;</li> </ul>
	<ul> <li>Are a U.S. citizen, national, or permanent resident;</li> </ul>
	<ul> <li>Are enrolled or accepted for enrollment as a full-time</li> </ul>
	student at a qualified accredited institution.
its training and	For more information, contact the UGSP at:
employment	http://ugsp.info.nih.gov = E-mail: ugsp@nih.gov
programs	Phone: 1-800-528-7689 TTY: 1-888-352-3001

### Marine Biological Laboratory Summer Research Fellowships

**Full Fellowships** - These fellowships cover costs of summer research, plus living and travel expenses:

Nikon, Inc. Fellowship - Any area of biological sciences requiring the use of advanced microscopy.

Josiah Macy, Jr. Foundation Research Fellowship -Provides funds for three minority research faculty scientists.

**Partial Fellowships** - These fellowship funds may be available individually or in concert to cover many of the costs of conducting summer research, including living and travel expenses, in the following areas:

- **Robert Day Allen Fellowship** Cell motility and cytoarchitecture
- Frederick B. Bang Fellowship Fund For research using marine models in molecular biology or biomedicine
- The Baxter Postdoctoral Fellowship Fund For research in the biological and biomedical sciences
- Frank A. Brown, Jr. Memorial Readership Covers fees for desk rental & full privileges in MBL/WHOI Library
- Charles R. Crane Fellowship Fund Research in any area
- John O. Crane Fellowship Fund Research in any area
- Jean and Katsuma Dan Fellowship Fund Supports scientific visits to Japan by junior American investigators
- Erik B. Fries Endowed Fellowship Covers laboratory or library expenses
- M.G.F. Fuortes Fellowship Neuroscience
- The H. Keffer Hartline Fellowship Fund For research in sensory neurobiology
- Ann E. Kramer Fellowship Fund For women researchers, with a preference for neuroscience
- Fred Karush Endowed Library Readership Covers fees for desk rental & full privileges in MBL/WHOI Library
- Stephen W. Kuffler Fellowship Neurobiology
- Lucy B. Lemann Fellowship Research in any area
- Frank R. Lillie Fellowship Research in any area
- MBL Associates Fellowships Research in any area
- MBL Research Fellowships Research in any area
- James A. and Faith Miller Memorial Fund Any area, with developmental biology preferred
- NASA Life Sciences Program Fellowships Research related to the mission the NASA Life Sciences Program
- The Plum Foundation, John E. Dowling Fellowship Fund For research on the neurobiology of vision and the retina
- William Townsend Porter Fellowship for Minority Investigators - Research in any area
- Herbert W. Rand Fellowship Research in any area The Evelyn and Melvin Spiegel Fellowship Fund - Any area,
- developmental biology preferred H.B. Steinbach Fellowship - Independent research in any area
- Universal Imaging Corporation Fellowship Available to an investigator doing cell biology research

Application Deadline: <u>January 15, 2001</u> The MBL Fellowship Committee reviews applications. Notification of decisions will be mailed by March 15.

For forms and additional information, please contact: Fellowship Coordinator, Office of Education Marine Biological Laboratory 7 MBL Street, Woods Hole, MA 02543-1015 (508) 289-7441 / E-mail: skaufman@mbl.edu Web-site: http://www.mbl.edu

The MBL is an EEO/Affirmative Action Institution

#### CHAIR

The Department of Biological Sciences at the University of Alabama in Huntsville invites applications for the position of Chair. Candidates should hold a Ph.D. in a biotechnology-oriented area of the life sciences, qualify for appointment at the rank of **PRO**-FESSOR, and have administrative experience with personnel and budgetary matters. Applicants also should have an internationally recognized research program in an area of biotechnology that is well integrated into and compatible with the mission of a biological sciences department and have an established record of university teaching and professional service. The successful candidate will be relatively early in his or her career as an established Investigator, with the energy and vision to lead the Department in its new role as an integral component of an interdiscipli-nary program along with Chemistry and Chemical Engineering, offering a Ph.D. in biotechnology that will commence in 2001. The Department currently offers B.S. and M.S. degrees serving over 300 under graduates and 35 graduate students and has a current faculty of 12, all of whom hold the Ph.D. It is expected that opportunities to fill several new faculty positions will develop in the near future. The Department shares facilities and personnel with the Laboratory for Structural Biology and has faculty members who are part of an interdisciplinary Natural Products group. The Biotechnology Ph.D. program also will interact strongly with several local biotechnology companies such as Research Genetics and Shearwater Polymers and the biotechnology group at NASA's Marshall Space Flight Center (MSFC) organized within the National Space Sciences Technology Center. UAH is a Carnegie Doctoral II university with degree programs in the Colleges of Liberal Arts, Science, Nursing, Administrative Science, and Engineering. Total enrollment is approximately 7,000 with about 20% in graduate programs concentrated in engineering and the sciences. Research contract and grant awards and expenditures approach \$40 million annually. UAH is located in Huntsville, Alabama, a technology-oriented community with a metropolitan population of 350,000, and the University serves as a cultural focal point for a scientifically literate population. The University recently was selected to participate as a South east collaboratory institution member in one of the new National Institutes of Health Structural Genomics Centers. To apply, please send a cover letter, curriculum vitae, statements of teaching and administrative philosophy, an outline of future research thrusts and facility requirements, and names of four persons who may be contacted for references to: Chair, Search Committee, Department of Biological Sci ences, Wilson Hall 142, University of Alabama in Huntsville, Huntsville, AL 35899. Additional information about the institution and Department may be found at website: www.uah.edu or by inquiries addressed to e-mail: campbep@email.uah.edu. UAH is an Affirmative Action/Equal Opportunity Employer.

#### FACULTY POSITIONS IN NEUROSCIENCE SUNY UPSTATE MEDICAL UNIVERSITY

Three tenure-track faculty positions for ASSIST-ANT or ASSOCIATE PROFESSOR are available in the Department of Neuroscience and Physiology. Department is rebuilding with a focus on developmental neurobiology. Researchers with interests in cell fate, neurogenetics, neurooncology, and plasticity are encouraged to apply. Successful candidates are expected to establish independent, extramurally supported research programs and to participate in medical/graduate education. Positions offer possibilities of interdisciplinary interactions with interactive and multidisciplinary faculty. Candidates should send curriculum vitae, statements of research and teaching experience, and names of three references to: Michael Miller, Chair, Department of Neuroscience and Physiology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210. Review of applications will begin November 1, 2000, and continue until the positions are filled. SUNY is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN



Long Island University is the nation's eighth largest private university with six campuses in metropolitan New York and Long Island.

#### MARINE SCIENCE PROGRAM SOUTHAMPTON COLLEGE LONG ISLAND UNIVERSITY

ASSISTANT PROFESSOR, tenure-track positions anticipated for fall 2001. Posdoctoral and teaching experience desirable. Strong commitment to undergraduate education and an active, marine-oriented research program involving undergraduates expected. Development of new courses in areas of expertise encouraged. Physical Processes: teach physical oceanography and geological oceanography. Possible participation in marine operations and research course.

Biochemistry: teach biochemistry, cell and molecular biology. Possible participation in introductory cell biology course.

Genetics: teach genetics; participation in introductory cell biology.

Marine Mammalogist: teach marine mammal biology and possibly evolution, physiology, or other courses as appropriate. Seal research advantageous but not required.

Southampton College (website: www.southampton. edu) has an outstanding undergraduate marine science program, marine station on campus, wellequipped laboratories, and a 42-foot research vessel. Curriculum vitae; statement of research; teaching philosophy; and three letters of reference by December 31, 2000, to: Dr. Sandra E. Shumway, Southampton, College, 239 Montauk, Highway, Southampton, NY 11968. Telephone: 631-287-8407; e-mail: sshumway@southampton.liu.edu. Affirmative Action/Equal Opportunity Employer.

#### TENURE-TRACK POSITION MOLECULAR/CELL BIOLOGY Department of Medical Genetics and Microbiology University of Toronto

We are searching for a tenure-track appointee in the broad area of fundamental molecular and cell biology. The applicants should have a Ph.D. degree or equivalent and postdoctoral experience. They should be capable of mounting an original, competitive, and independently funded research program in the area of molecular and cell biology. Applicants undertaking basic research using model genetic organisms such as yeast and other microbes, C. elegans, and Drosophila as well as vertebrate model systems are encouraged to apply. The applicant will be expected to have a commitment to undergraduate and graduate education in molecular biology and genetics or microbiology. The applicant will benefit from a larger effort at the University of Toronto and affiliated teaching hospitals to expand research in proteomics, genomics, and cell imaging through academic programs and new infra-structure. Effective July 1, 2001, the appointment will normally be made at the ASSISTANT PROFES-SOR level. Outstanding candidates at a higher level will be considered. Send curriculum vitae, a summary of research interests, and three letters of reference before December 15, 2000, to:

Dr. Brenda J. Andrews, Ph.D. Chair, Department of Medical Genetics and Microbiology University of Toronto 1 King's College Circle, Room 4285 Toronto, Ontario M5S 1A8 Canada E-mail: brenda.andrews@utoronto.ca

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disabilities. Applicants need not be Canadian citizens.

#### POSITIONS OPEN

#### ASSISTANT PROFESSOR, TENURE-TRACK KEENE STATE COLLEGE

The Department of Biology at Keene State College invites applications for a tenure-track position at the Assistant Professor level beginning fall 2001.

Developmental biology: The ideal candidate can teach undergraduate courses in developmental biology, cell biology, and introductory and nonmajors biology and supervise undergraduate research; has an integrated biological perspective and a good general knowledge of biology; and has a strong commitment to undergraduate teaching and to liberal arts education. Qualifications: Ph.D. in biology, developmental biology, or related discipline; some undergraduate teaching experience required. Preference will be given to candidates with a broad background in developmental biology, including classical embryology and morphogenetic analysis, as well as modern molecular approaches to epigenetic control mechanisms. Knowledge of a specific group of organisms desirable. Minimum salary for Assistant Professor is \$39,510.

Keene State College is a public liberal arts college of the University System of New Hampshire with an enrollment of 5,000 students. The College has been recognized as a leader in American higher education for its commitment to its mission, broad-based strategic planning initiatives, and cohesive sense of community. The College is located in the scenic Monadnock region of southwest New Hampshire near experimental forests and national forests, with easy access (two hours) to Boston, Massachusetts, Hartford, Connecticut, and Albany, New York. The Biology Department prides itself on its strong curriculum and vigorous commitment to undergraduate education. To learn more about Keene State College, the University System of New Hampshire, and the Keene Community, visit these websites: www.keene.edu/ or www.keenesentinel.com/toplist.shtml. Keene State College is a member of the Council of Public Liberal Arts Colleges, a national alliance of leading liberal arts colleges in the public sector.

Submit letter of application, curriculum vitae, clear description of undergraduate teaching experience, statement of teaching philosophy/methods, statement of research interests, and three letters of reference (addressing candidate's undergraduate teaching experience) by December 15, 2000, to: Developmental Biology Search, Department Scill3, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604.

As an Affirmative Action/Equal Employment Opportunity Employer, we actively seek women and minority candidates.

#### MEDICAL SCHOOL FACULTY POSITIONS

The American University of the Caribbean School of Medicine is expanding the faculty and inviting applications for positions in the departments of Anatomy, Biochemistry, Genetics, Microbiology, Pharmacology, and Physiology. Successful candidates should be self-motivated and enthusiastic about teaching. These positions are located at our St. Maarten, Caribbean campus. Website: www.aucmed.edu. Candidates should send their résumé to: Search Committee, c/o MEIO-S, 901 Ponce de Leon Boulevard, #201, Coral Gables, FL 31334. FAX: 305-444-6791.

**POSTDOCTORAL POSITIONS** available to study developmental regulation of the pituitary-adrenal and renin-angiotensin systems. Research will examine mechanisms controlling gene and protein expression in primary cell cultures, secretion of proteins and steroids by isolated cells, and G protein-coupled receptor function. Experience in cell culture and molecular biology essential. Send curriculum vitae and names of three references to: Dr. Jim Rose, Department of Obstetrics and Gynecology, Wake Forest University School of Medicine, Winston-Salem, NC 27157. E-mail: jimrose@wfubmc.edu; FAX: 336-716-6937. Equal Opportunity/Affirmative Action Employer.



### HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States. HHMI regularly has positions open for research and administrative personnel.

Laboratory Positions:

- •Postdoctoral Fellowships
- Research Specialists/Technicians
- Research Secretaries

#### Administrative Positions:

- Managers
- •Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

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

# DN#

DNX Transgenic Sciences has over ten years of experience in generating and characterizing of genetically altered

animals. Now DNX is launching a new large scale project in phenotypic characterization of genetically modified mice which will expand our existing phenotyping capabilities. Multiple positions are available.

#### Ph.D. Scientists

Strong background in *mouse* biology and genetics Strong drive and well-developed communication and organizational skills

Computer literacy

- Expertise and hands-on experience in one of the
- following fields:
- Inflammation/Immunology/Hematology
- Normal Physiology / Pathology
- Behavior

#### **MS / BS Research Associates**

At least two years of hands-on experience with *mice* Practical knowledge of murine surgery and/or procedures

Computer literacy is a plus

#### Microinjectionist

Two or more years experience in a transgenic facility Performing both pronuclear microinjection and blastocyst injection of ES cells

Interested candidates should apply in writing, together with a detailed curriculum vitae and the names of two references to: **Human Resources Administrator, DNX Transgenic Sciences, 5 Cedar Brook Drive, Cranbury, NJ 08512.** 



#### Fellowships

#### The Feinberg Graduate School of the Weizmann Institute of Science will award a limited number of Distinguished Post-Doctoral

Fellowships

tenable for two years, with the possibility of an extension for a third year, to exceptionally qualified candidates who have received a Ph.D. or equivalent degree from a recognized institution within three years from taking up the appointment. The successful candidates will be known as

#### **Koshland Scholars**

In addition to the usual stipend for postdoctoral fellows at the Institute, a Koshland Scholar will receive an extra annual travel allowance of \$2,500 for professional purposes and a one time grant of \$5,000 for personal use at the end of the first year of residence.

The fellowships are available in all the fields of scientific research that are pursued at the Weizmann Institute. There are seventeen departments that are distributed in five faculties.

Biochemistry	Biology
Chemistry	Physics
Mathematics and Computer Science	

They are engaged in a wide spectrum of research projects that, in addition to the more traditional disciplines, include interdisciplinary research in:

### Agriculture, Bioinformatics, Biomedicine, Engineering,

Environmental Sciences and Energy, Neurosciences

Applications may be submitted at any time, but the awards will be made shortly after the usual deadlines for the submission of fellow applications, January 1 and May 15 each year. Candidates for Koshland fellowships must be submitted by a Faculty Member of the Weizmann Institute. Interested candidates are advised to contact prospective sponsors directly.

Additional information and application forms may be obtained from the Feinberg Graduate School, The Weizmann Institute of Science, Rehovot 76100, Israel. Fax: 972-8-9344114; Email: postdoc@weizmann.ac.il or visit the Feinberg Home Page at: http://www.weizmann.ac.il/feinberg

#### MINERAL PHYSICS FACULTY POSITION UCLA

The Department of Earth and Space Sciences (ESS) and Institute of Geophysics and Planetary Physics (IGPP) at the University of California Los Angeles (UCLA) invite applications for a ladder faculty position in mineral physics, including such specialties as flow laws, equations of state, phase relations, anisotropic elasticity, and/or thermal and electrical conductivity. Consideration will be given to both experimental and computational approaches. Necessary qualifications include the Ph.D., demonstrated intellectual leadership and teaching skill, and laboratory or computational experience. The abilities to conduct investigations at high pressure and/or on multicomponent rocks are desirable. The level of appointment will be commensurate with experience and distinction but a junior appointment is preferred. Joint appointment to the IGPP can be made for Scientists involved in novel research fields that cross traditional disciplinary boundaries. The applicant should enclose curriculum vitae, publication list, short statement of teaching and research objectives, and names and addresses of three potential references. Applications should be directed to:

#### **Mineral Physics Search Committee** Department of Earth and Space Sciences University of California P.O. Box 951567 Los Angeles, CA 90095-1567

Applications will be accepted on a continuing basis but consideration of dossiers will commence January 15, 2001. UCLA is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are particularly encouraged to apply

#### **BIOMOLECULAR NMR SPECTROSCOPIST** NATIONAL HIGH MAGNETIC FIELD LABORATORY

The National High Magnetic Field Laboratory invites applications for a High-Resolution Biomolecular NMR Spectroscopist in the NMR Spectroscopy and Imaging program. This is a RESEARCH FACUL TY position. Minimum qualifications include a Ph.D in chemistry, physics, or related field with a demonstrated expertise in structural biology applications of solution NMR spectroscopy. Postdoctoral experience is preferred. Candidates with an interest in NMR at very high magnetic fields and in the development of novel NMR methods and/or instrumentation are especially encouraged to apply. The successful applicant will be expected to contribute to the development of the high-resolution NMR program at the NHMFL by conducting independent and collaborative research projects, providing support for external users, and administering the high-resolution NMR systems. Aggressive pursuit of outside funding is expected. Applicants should submit curriculm vitae, a brief research plan, and suggested references to: Ms. Barbara Butler, National High Magnetic Field Laboratory, 1800 East Paul Dirac Drive, Tallahassee, FL 32310. Applications will be evaluated beginning December 15, 2000. Reference Position 55571.

University of Florida. The Department of Chemistry invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level in biochemistry beginning in August 2001. Candidates with research interests in any area of biological chemistry including emerging areas such as genomics and proteomics are encouraged to apply. A Ph.D. degree in biochemistry, chemistry, or a related field is required. Candidates should submit curriculum vitae, descriptions of teaching and research plans, and arrange to have three letters of recommendation sent to: Dr. Jon D. Stewart, University of Florida, Biochemistry Search Committee, P.O. Box 117200, Gainesville, FL 32611-7200. Complete applications must be received by December 15, 2000. Women and minorities are encouraged to apply. Anyone requiring special assistance in completing the application should contact the Search Committee Chair, Dr. Stewart. Equal Opportunity/Affirmative Action Employer

#### POSITIONS OPEN

#### ASSISTANT PROFESSOR OF PHYSIOLOGY SOUTHERN ILLINOIS UNIVERSITY School of Medicine

The Department of Physiology at Southern Illinois University School of Medicine, Carbondale, invites applications for a tenure-track faculty position at the Assistant Professor level. The Department has an established graduate and undergraduate program with active research interests in molecular, cellular, and systemic physiology. The candidate's research program is expected to complement and expand existing Departmental strengths in neuroscience or cancer biology; however, outstanding candidates in other research areas will be considered. The successful candidate will also participate in the medical school and graduate and undergraduate teaching responsibilities of the Department. The position is a 12-month appointment with a competitive salary, excellent facilities, and substantial start-up funds. Applicants must have a Ph.D., M.D., or equivalent degree in physiology, molecular biology, biochemistry, pharmacology, or related field. Postdoctoral experience in the area of neuroscience or cancer biology is preferred, and promise of an active, externally funded research program is required. Additional departmental information can be obtained via website: http://www.som. siu.edu/physiology/

Applications will be reviewed beginning January 15, 2001, for an anticipated starting date of July 1, 2001. Applicants are asked to submit curriculum vitae, description of research and teaching interests, and arrange to have at least three letters of reference sent to:

> Faculty Search Committee c/o Dr. Andrzaj Bartke Department of Physiology Southern Illinois University School of Medicine Carbondale, IL 62901-6512

Southern Illinois University Carbondale is an Equal Opportunity/Affirmative Action Employer.

#### FACULTY POSITION CARBON CYCLE SCIENCE THE PENNSYLVANIA STATE UNIVERSITY

Penn State University plans to add 25 new faculty in a Universitywide effort to increase the visibility and stature of an already strong, diverse program of environmental research and education. As part of the University's Environmental Consortium effort, The College of Earth and Mineral Sciences seeks applications for a tenure-track position to complement growing strengths in the area of carbon cycle science. Hiring is proposed at the ASSISTANT PROFESSOR level, but exceptional candidates will be considered at a higher rank commensurate with qualifications and experience. A Ph.D. degree and a commitment to highquality research and teaching are required. Preference will be given to applicants with expertise in understanding carbon source-sink relations (e.g., land use/ land cover change and remote sensing, ocean carbon cycle, land surface processes, oxygen and isotopic studies, atmospheric inversions); deliberate carbon sequestration/emissions reduction strategies (e.g., deep geological or oceanic storage, terrestrial storage, efficiency in fuel combustion, energy forecasting related to carbon emissions); or some combination. The successful applicant will be appointed in one of the following departments: Energy and Geo-environmental Engineering; Energy, Environmental, and Mineral Economics; Geography; Geosciences; or Meteorology. Strong ties to the College's Energy and Environment Institutes are also encouraged. Applicants should submit a letter of interest, curriculum vitae, and the names of four references to: Dr. William E. Easterling, c/o Ms. Deb Detwiler, EMS Environment Institute, Pennsylvania State University, 2217 EES Building, University Park, PA 16802. Applications received by December 1, 2000, will be given full consideration. The position will remain open until filled. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply

#### POSITIONS OPEN

#### ASSOCIATE PROFESSOR LANDSCAPE ECOLOGY PLANT BIOLOGY Arizona State University

The Department of Plant Biology invites applications for a tenure-track Associate Professor focusing on landscape ecology. The individual will be expected to work as an integral Scientist in the interdisciplinary Central Arizona-Phoenix Long-Term Ecological Research Program and in the landscape ecology program being developed within Plant Biology. Preference will be given to candidates with experience in ecological modeling of urban ecosystems at the landscape level. The successful candidate will be expected to develop a vigorous extramurally funded research program involving urban ecology and contribute to teaching at the undergraduate and graduate levels. Applicants must have a Ph.D. degree in plant sciences, postdoctoral experience, evidence of research productivity, and excellent communication skills. Additional information about the Department and this position can be found at website: http://lifesciences.asu.edu/ **plantbiology**. The position is scheduled to begin January 1, 2001. Applicants must send curriculum vitae; statement of research interests and teaching philosophy; and the names, addresses, and e-mail addresses (if possible) of four references to: Chair, Landscape Ecology Search Committee, Department of Plant Biology, Arizona State University, Box 871601, Tempe, AZ 85287-1601 by December 1, 2000. Arizona State University is an Equal Opportunity/Affirmative Action Employer.

#### **RESEARCH ASSISTANT PROFESSOR**

The Division of Geographic Medicine is seeking a new faculty member to join an active virus research group under Polly Roy (see Roy, 'Orbivirus Structure and Assembly,' review article, Virology 215:1-11). The group is composed of senior and junior **POSTDOCTORAL RESEARCH ASSOCIATES** and Fellows. The laboratory is currently involved in various aspects of double-stranded RNA virus research including reverse genetics, transcription/replication processes, virus assembly mechanisms, virushost interactions, and protein crystallization. Applicants should have extensive knowledge in molecular virology, in particular animal RNA viruses, and must have a good publication record in virology. Some experience in supervision of graduate students is preferred. Salary is negotiable based on qualifications and experience.

Interested persons should send two copies of a detailed curriculum vitae and the names and addresses of two references to: Polly Roy, University of Alabama at Birmingham, Department of Medicine/ Division of Geographic Medicine, Bevill Research Building, BBRB 203 845 South 19th Street, Bir-mingham, AL 35294-2170. Telephone: 205-975-7614; FAX: 205-934-5600; e-mail: Roy@uab.edu or por@ceh.ac.uk. The University of Alabama System is an Êqual Opportunity/Affirmative Action Employer.

#### TWO TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF BIOLOGY California State University, Bakersfield

We seek applicants at the level of ASSISTANT PROFESSOR for two positions in biological sciences to teach courses for nonscience majors, including upper-division science (integrating physical and life sciences) for K-8 preteachers, upper-division Investigative Laboratory, and others. One position will be based at CSU Bakersfield and one position based at a satellite campus in Lancaster, California (CSUB-Antelope Valley). See website: www.csub.edu/ biology for full job descriptions of each position and responsibilities. Send curriculum vitae: transcripts; teaching philosophy; and three letters of recommendation by February 1, 2001, to: Dr. David S. Hinds, Chair, General Education Search, Department of Biology, California State University, 9001 Stockdale Highway, Bakersfield, CA 93311-1099. CSUB is an Affirmative Action/Equal Opportunity Employer.

#### GRANTS

#### **GLOBAL OPPORTUNITIES**



A member of the Consultative Group on International Agricultural Research (CGIAR), ICLARM - The World Fish Center, is an international, non-government, non-profit scientific institute conducting fisheries and aquatic research in tropical developing

countries. The Center requires a highly competent and motivated individual for the following position:

#### PROJECT LEADER/SENIOR SCIENTIST (AQUACULTURE) ICLARM BANGLADESH OFFICE

ICLARM invites applications for a Senior Scientist (Aquaculture) to have primary responsibility to implement the USAIDfunded project entitled "Development of Sustainable Aquaculture."

This collaborative inland aquaculture research and development program is being implemented with partners in Bangladesh, among them several NGOs, governmental research institutes, the universities and other agencies. He/She will be based in Dhaka, Bangladesh. Under the direct supervision of the responsible Program Leader at ICLARM head office in Penang, the incumbent will in general assist in the preparation of research plans and methodologies and implementation of programs to assist the development of integrated aquaculture-agriculture farming systems in line with ICLARM's project workplan and approved Medium Term Plan 2001-2003. The incumbent will liaise closely with the existing ICLARM Officer-in-Charge in Dhaka towards smooth and efficient management of ICLARM's Bangladesh Office and liaise with ICLARM's Head Office in Penang, the USAID mission in Dhaka, and various Bangladesh agencies. (A detailed Job Description is available upon request.)

The person must hold a PhD in biological science (e.g., aquaculture, fisheries, etc.) with a proven track record in research and research management, and a strong understanding of socioeconomic and social science issues and research approaches relevant to applied, on-farm research work. He/She must have had significant experience in working with developing countries research institutions and be willing to undertake extensive incountry travel and field work. Excellent administrative and communication skills are required.

ICLARM offers internationally competitive remuneration paid in US dollars and a comprehensive benefits package. Initially the position will be for three (3) years, with a possibility for extension. The project to be led has approved funding until July 2005.

ICLARM is an equal opportunity employer and welcomes all applications regardless of gender, nationality, ethnic origin, religious persuasion or political beliefs. Applications from women and developing country professionals are especially encouraged.

Interested applicants should send current curriculum vitae, photocopies of supporting documents and names of three (3) professional referees (including telephone, fax, and e-mail address, if available) before *31 December 2000* in confidence to:

> The Associate Director General - CSD, ICLARM, GPO Box 500, 10670 Penang, Malaysia. Telefax +60-4-6434463 E-mail: hr@cgiar.org www.cgiar.org/iclarm

# Funding Opportunities

FOR LEUKEMIA AND LYMPHOMA RESEARCH

The Leukemia Research Foundation is initiating new funding opportunities for leukemia and lymphoma research. **Our goal is to find a cure for leukemia, lymphoma, and related blood cancers.** Our definition of relatedness to leukemia and lymphoma is broad and includes applications in areas such as biochemistry, microbiology, genetics, and immunology among others as long as the proposed project relates to some significant aspect of leukemia or lymphoma.

Deadline for completed grant applications is a postmark date of February 15, 2001. Notification of awards is expected by June 1, 2001.

#### We are now funding three types of grants:

- **1. New Investigator Research Grant:** \$75,000/year, one year, may be renewable for a second year, may not be used for salary of PI. Investigators must be staff members within five years of beginning an independent lab.
- 2. Postdoctoral Fellowship: \$30,000 salary support/ year, two years. Fellows (M.D. or Ph.D.) can have up to three years of training (excluding medical residency) prior to receiving the grant award.
- **3. Physician-Scientist Postdoctoral Fellowship:** \$45,000 salary support/year, two years. Fellows (M.D., D.O., D.V.M., or equivalent) not yet established as independent investigators are eligible.

For more detailed information and applications, visit www.leukemia-research.org or contact Hollis R. Brownstein, Chair, Medical Advisory Committee.



Leukemia Research Foundation 820 Davis Street Suite 420 Evanston, Illinois 60201 P: 847 424 0600 F: 847 581 0779

**E:** hollis\_lrf@ameritech.net

TWO POSITIONS: BIOCHEMISTRY AND PLANT PHYSIOLOGY. Two ASSISTANT PROFESSOR tenure-track faculty positions are available in the Biology Department, University of West Florida, starting fall 2001. We are seeking a Biochemist (protein biochemist preferred) and a Plant Physiologist to develop a departmental emphasis in biotechnology. These positions should complement the molecular, marine, ecological, plant science, and bioremediation interests of our faculty as well as contribute to our preparation of prehealth professionals. A Ph.D. and postdoctoral experience are required. UWF is in the State of Florida University system, located on the north coast of the Gulf of Mexico, and offers B.S. and M.S. degree programs (website: http://www.uwf.edu). Faculty are expected to contribute to the Departmental teaching duties, including biochemistry, molecular biology, plant physiology, and advanced courses in their area of specialty. Development of an active research program involving undergraduate and graduate students is required. Salary commensurate with experience. Applicants should send curriculum vitae, a statement of teaching interests and philosophy, a statement of research interests, and three letters of recommendation by January 5, 2001, to: Chair, Search Committee, Department of Biology, University of West Florida, 11000 University Parkway, Pensacola, FL 32514. Email: gstewart@uwf.edu. Visit our website: http:// www.uwf.edu. The University of West Florida is an Equal Opportunity Employer and encourages applications from women and other minorities. UWF is an Equal Opportunity/Access/ Affirmative Action Employer.

#### ASSISTANT PROFESSOR

The Department of Biological Sciences is recruiting for a tenure-track Assistant Professor (September 1, 2001) desiring a balance of research and teaching with expertise in molecular biology and experience in bioinformatics. Candidates must have (1) Ph.D. with postdoctoral experience, (2) commitment to teaching excellence, and (3) ability to conduct significant and independent research. Teaching includes a core course and specialty courses for graduate students and upperdivision undergraduates. The Department offers a B.S. in biological sciences, a B.S. in molecular biology/bioinformatics, and an M.S. in applied molecular biology. Applications accepted until position is filled. Applications should include curriculum vitae, reprints, future research interests, teaching philosophy, and three letters of reference to: Dr. Carmel Ruffolo, Chair, Search and Screen Committee, Department of Biological Sciences, University of Wisconsin-Parkside, Kenosha, WI 53141. For additional information, e-mail: carmel.ruffolo@uwp. edu; website: http://www.uwp.edu/academic/ biology. The University of Wisconsin–Parkside is an Affir-mative Action/Equal Employment Opportunity Employer.

Message Pharmaceuticals, Inc. was founded in 1997 to discover small molecules that target RNA/ protein interactions for the treatment of a broad spectrum of human disorders. The company has success fully identified compounds capable of altering these interactions for RNAs associated with inflammation, cancer, AIDS, and hyperlipidemia. Message is a rapidly growing company located just outside of Philadelphia, Pennsylvania and is currently recruiting a Ph.D. Scientist with two to five years of industrial experience to work as a Group Leader for assay development and high-throughput screening. The success ful applicant will have experience with a range of screening formats including but not limited to cellbased, enzymatic, receptor binding, fluorescence and luminescence assays. Experience working with RNA, RNA binding proteins, HTS instrumentation, and HTS data analysis would be advantageous. Message is seeking outstanding, highly motivated individuals who are interested in being part of our research team. Innovative thinking is essential. Qualified applicants should send a cover letter and curriculum vitae to: Human Resources, Message Pharmaceuticals, Inc., 30 Spring Mill Drive, Malvern, PA 19355. FAX: 610-695-0957; e-mail: hr@messagepharm. com.

#### POSITIONS OPEN

#### CHAIR, DEPARTMENT OF CHEMISTRY

The College of Liberal Arts seeks a Chair for the Department of Chemistry. The candidate should be a Senior Scientist with a distinguished record of research productivity, a strong desire to maintain an active research program, and a commitment to undergraduate and graduate education. We welcome applicants from all areas of chemistry and encourage candidates who would enhance one or more of our existing strengths in biosciences, chemical synthesis, environmental science, and materials science.

Ongoing rapid hiring and the expansion and construction of new facilities provide exciting opportunities for a new Chair to oversee and guide growth and change in the Department. The successful candidate will bring vision and energy to the challenges of shaping the future direction of the Department while sustaining breadth in the Chemistry Department and strengthening the Department's national reputation and research and teaching.

Applicants should submit curriculum vitae, statements of research interests and administrative philosophy, and the names and addresses of at least three references to: Professor Michael W. O'Hara, Chemistry Search Committee Chair, c/o College of Liberal Arts, 240 Schaeffer Hall, University of Iowa, Iowa City, IA 52242. Review of applications will begin February 1, 2001. Website: http://www. uiowa.edu/~chemdept/.

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

#### ASSISTANT/ASSOCIATE/ FULL PROFESSOR SCIENCE/MATH EDUCATION

To provide leadership in science/math/engineering/technology (SMET) education in making CCNY a nationally renowned center for precollege and college SMET education. Qualifications: Doctorate in science, mathematics, or engineering with extensive background in education, or Doctorate in science or mathematics education with strong background in science or mathematics, record of successful teaching, and outstanding scholarly achievement. Candidates from biology, chemistry, and math especially encouraged to apply. Salary commensurate with experience and background. Full details at website: www.ccny. cuny.edu/positions. Application review begins De-cember 18, 2000. Send detailed letter of qualifications and research interests; curriculum vitae, and the names, addresses, e-mail addresses, and telephone numbers of three references to: Professor James L. Neujahr, Chair, NAC 6/207A (SMET), The City College, CUNY, Convent Avenue at 138th Street, New York, NY 10031. An Equal Opportunity/Affirmative Action/Americans With Disabilities Act/IRCA Employer.

#### DEPARTMENT OF DERMATOLOGY SCHOOL OF MEDICINE University of Alabama at Birmingham

Applications are invited for a position at the RE-SEARCH ASSISTANT PROFESSOR level to work in the areas of immunodermatology and tumor biology. The individual chosen will have the opportunity to collaborate with research groups both within the basic sciences and in the clinical departments in the School of Medicine. He/she should have experience in cellular immunological and molecular biological techniques. Candidates must have a Ph.D. or equivalent and have sufficient postdoctoral experience to demonstrate both significant accomplishments and outstanding promise. Curriculum vitae, a statement of research interest, and the names of three references should be sent to: Dr. Craig A. Elmets, M.D., Professor and Chair, Department of Dermatology, University of Alabama at Birmingham, University Station, EFH Suite 414, Birmingham, AL 35294-0009. FAX: 205-934-5766; e-mail: gramer@ UAB.edu. UAB is an Equal Opportunity/Affirmative Action Employer

#### POSITIONS OPEN

MILLER CHAIR OF PLANT DEVELOPMENT DEPARTMENT OF BIOLOGY Indiana University

Applications and nominations are invited for the Miller Chair in Plant Development. The successful candidate will bring an impressive record of research accomplishments recognized at the international level and a strong record of external grant funding. The holder of this Chair is to be conducting research that seeks to understand the biochemical bases of plant growth and development. The Chair offers an attractive salary and start-up package; a generous annual endowment income; and the opportunity to move into a newly renovated, state-of-the-art research building together with other Plant Molecular Biologists. For information about the Department of Biology, Indiana University, and Bloomington, visit our website: http://www.bio.indiana.edu.

Qualified individuals should send their curriculum vitae and description of current funding to: Dr. Roger Innes, Department of Biology, Indiana University, 1001 East Third Street, Bloomington, IN 47405-3700. E-mail: rinnes@bio.indiana.edu. Screening of applicants will begin immediately and will continue until the position is filled. Indiana University is an Equal Opportunity/Affirmative Action Employer. The Department of Biology seeks diversity in its faculty and encourages applications from women and minority Scientists. We also have a strong history of accommodating two-career couples and are in the middle of a major expansion/hiring phase.

#### NEUROBIOLOGIST

The University of Scranton, a Catholic and Jesuit institution in northeastern Pennsylvania, invites applications for a tenure-track ASSISTANT PROFES-SOR position in neurobiology starting in August 2001. Applicants must have a Ph.D. and postdoctoral experience is desirable. The successful candidate will teach upper-division courses in neurobiology and contribute to courses in general biology or the natural science component of the University's general education program. Experience in electron microscopy is desirable. Excellence in teaching and an active research program that will involve undergraduates are expected. The University of Scranton is committed to excellence in liberal arts education leading to personal growth and development in the Catholic and Jesuit tradition (see the Institutional Statement of Mission at website: http://www.uofs.edu/admin/ mission.html). The successful candidate must be able to support the mission as a member of the University community. Submit curriculum vitae, statements of teaching philosophy and research interests, and three letters of reference by 8 January 2001 to: Michael Hardisky, Chair, Biology Department, University of Scranton, Scranton, PA 18510. No applications accepted by FAX or e-mail.

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

MOLECULAR MICROBIOLOGIST: The Department of Biology at Saint Louis University, a Catholic Jesuit institution dedicated to education, research, and health care, invites applications for a tenure-track position in the area of molecular microbiology beginning fall 2000. Applicants should have postdoctoral experience and record of research productivity. The candidate is expected to develop an independent, extramurally funded research program involving M.S., Ph.D., and undergraduate students and to teach general microbiology and courses in his/ her area of expertise. Submit a statement of teaching and research goals, representative reprints, curriculum vitae, and three letters of recommendation to: Robert I. Bolla, Ph.D., Chair, Department of Biology, Saint Louis University, 3507 Laclede Avenue, St. Louis, MO 63103-2010. E-mail: bollari@slu.edu. For more information, visit our website: www.slu. edu. Review of candidates will begin immediately and continue until the position is filled. Saint Louis University is an Affirmative Action/Equal Opportunity Employer.

**GLOBAL OPPORTUNITIES** 

#### Fellowships

#### **POSITION ANNOUNCEMENT**

The Institute of Clinical Medicine, in affiliation with the National Taiwan University, School of Medicine, seeks to expand its research and teaching programs by recruiting one M.D. or Ph.D. scientist. The selected candidate will be appointed to the full-time faculty of the University at the rank of Assistant or Associate Professor as commensurate with their qualifications. Applicants should have an established research program in Transplantation Immunology, Surgical Oncology, or Cellular / Tissue Transplantation, and should demonstrate the ability to obtain funding to support their research. Targeted areas of interest include (but are not limited to) gene therapy, stem cell biology, and transplantation immunology. A surgical background or experience with experiments on small animals is preferred.

King-Jen Chang M.D. Ph.D. Chairman, Department of Surgery National Taiwan University Hospital No. 7, Chung-Shan S. Rd. Taipei, Taiwan Tel: +886-2-23562118 Fax: +886-2-23934358 E-mail: kingjen@ha.mc.ntu.edu.tw

### Fellowships in Oceanography for Minority Undergraduates

The Woods Hole Oceanographic Institution offers special educational opportunities in oceanography for minority undergraduate U.S. citizens or permanent residents. These awards are designed to provide training and research experience in Woods Hole for students who have completed at least two semesters of undergraduate study in physical or natural science, mathematics, or engineering and have an interest in marine sciences, oceanographic engineering, or marine policy.

Fellowships may be awarded for a ten to twelve week period in the summer or for a semester during the academic year and may be renewed the following year. The Fellow is paid a stipend of \$345 per week, plus a round trip travel allowance from their home school or university to Woods Hole. This program is conducted with support from and in cooperation with the Woods Hole Field Center, U.S. Geological Survey.

Application deadline for Summer 2001 is February 15, 2001. Application forms can be obtained from WHOI's website:

http://www.whoi.edu/education/ OF OCEANOGRAPHIC

or write:

Education Office, MS #31 OCEANOGRAPHIC Woods Hole Oceanographic Institution 360 Woods Hole Road Woods Hole, MA 02543-1541 or call (508) 289-2219

**WOODS HOLE** 

INSTITUTION

or email: education@whoi.edu

An equal opportunity/affirmative action employer.

#### MEETINGS

#### GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT

#### FUNDING OPPORTUNITIES

Last February in Cape Town, South Africa, 120 representatives from academia, industry, major development agencies, non-governmental organizations, and donors from around the world gathered to discuss obstacles and opportunities for the development of new drugs for tuberculosis. The main outcome of the meeting was a commitment to create a Global Alliance for TB Drug Development during the year 2000. The Global Alliance's vision is to provide new medicines, accessible to all, for the treatment of tuberculosis.

#### MISSION STATEMENT

Accelerate discovery and development of cost-effective new TB drugs that will:

- · Shorten the duration of TB treatment or otherwise simplify its completion,
- · Improve the treatment of latent TB infection, or
- · Be effective against MDR-TB

#### **CALL FOR LETTERS OF INTEREST**

The Global Alliance is currently seeking projects to support in tuberculosis drug R&D. The Alliance invites Letters of Interest from academic and industrial research groups (including pharmaceutical and biotechnology companies). Although projects in all phases of tuberculosis drug R&D are encouraged to submit Letters, the primary categories for consideration are:

- Tuberculosis drug discovery projects
- Tuberculosis drug development projects

Projects that include public-private partnerships and developing-country collaborations are strongly encouraged to apply. Please visit our Web site at www.tballiance.org for information required with Letters of Interest. The deadline for receipt of materials is December 15, 2000.

Please send Letters of Interest to: The Global Alliance for TB Drug Development, 420 Fifth Avenue, 21st Floor, New York, New York 10018, Attn: Di Eckerle

#### **GLOBAL OPPORTUNITIES**

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THE UNIVERSITY OF NEW SOUTH WALES, SYDNEY AUSTRALIA

#### **CLIVE AND VERA RAMACIOTTI CENTRE FOR GENE FUNCTION ANALYSIS**

### Director

Applications are sought from highly qualified individuals with a strong background in functional genomics for the position of Director of the Cive and Vera Ramaciotti Centre. The Centre will undertake and facilitate studies on gene function, using microarray and robotic technologies. The successful applicant will manage the Centre, promote research in the field of genomics, and participate in the training of research staff and students from the institutions involved. The successful applicant will be offered an adjunct academic appointment within the Faculty of Life Sciences at UNSW.

Essential criteria: a proven record of research and research management in the field of genomics, or related disciplines, and have a strong interest in the development of new technologies for determining the function of genes; a knowledge of EEO/AA principles.

Desirable criteria: experience with aspects of bioinformatics.

The Cive and Vera Centre for Gene Function Analysis has been established in the Sydney-Newcastle region of New South Wales as a result of successful grant applications to the Australian Research Council and the Clive and Vera Ramaciotti Foundation Millennium Award. These applications were made jointy from five universities (Universities of New South Wales, Sydney, Macquarie, Newcastle and Western Sydney) and five research institutions (Victor Chang Cardiac Research, Garvan, Kolling, Westmead Millenium and the Childrens Paediatic Oncology Research Centre). The Director will be located at UNSW, but will play an important role in ensuring access to the Centre for all partner institutions.

An attractive salary package of up to A\$100,000 per year will be negotiated with the successful applicant. The initial appointment will be for a five-year term. Membership of a University approved superannuation scheme is a condition of employment.

Details of the position, the selection criteria, the Centre and staff and infrastructure support can be obtained by contacting Professor Ian Dawes, Acting Director on telephone (61 2) 9385 2089; facsimile (61 2) 9385 1050 or email i dawes @unsw edu.au.

Applicants must obtain a copy of the position description and address the selection criteria in their application.

Applications close 1 December 2000.

PLEASE QUOTE Ref 555SCI

Application Procedure Applicants should submit written applications systematically addressing the selection criteria, QUOTING REFERENCE NUMBER. Include business and private telephone numbers, a complete resume, (copies of academic transcript and qualifications where appropriate); and the mares, addresses (and preferably facsimile numbers) of at least two referees to The Recuritment Officer, Human Resources, UNSW Sydney 2052 Australia, or email: recourtment@unsw.edu.au by applications close date.

UNSW is an Equal Opportunity Employer with a smoke free workplace.

#### FACULTY POSITION MICROBIAL EVOLUTION

The Interdepartmental Microbiology Graduate Program at the University of California, Riverside, invites applications for a tenure-track ASSISTANT PROFESSOR position in evolutionary microbiology. The candidate is expected to develop an extramurally funded research program addressing questions in microbial speciation and gene or genome evolution, including bacterial, fungal, viral, or protistan evolution. A Ph.D. degree is required; postdoctoral experience is preferred. This position will complement current faculty expertise in environmental and medical microbiology, microbial ecology, and plant pathology and interface with the evolutionary biology graduate program. Departmental affiliation in the College of Natural and Agricultural Sciences will be chosen in consultation with relevant departments and the college administration. Undergraduate and graduate teaching is expected, including graduate microbial genetics. For further information, contact website: http://cnas.ucr.edu/~micro/microintro.html or e-mail: bhyman@citrus.ucr.edu. Review of applications will commence on February 1, 2001. Interested applicants should forward their curriculum vitae, a short statement of research and teaching interests, and three letters of reference to: Bradley Hyman, Chair, Evolutionary Microbiologist Search Committee, Biology Department, University of Cali-fornia, Riverside, CA 92521. The University of California is an Equal Opportunity Employer/Affirmative Action Employer.

#### ASSOCIATE PROFESSOR, CHAIR OF DEPARTMENT OF BIOLOGY, BACTERIOLOGY

The Department of Biology at the University of Colorado at Colorado Springs (UCCS) invites applications for the position of Department Chair, faculty member at the level of tenured Associate Professor. The Department has strong academic and research programs in metabolism, biochemistry, molecular biology, cell biology, physiology, and immunology. Applicants must demonstrate excellence in undergraduate and graduate teaching, publications, an externally funded research program, and an integrative/collaborative perspective complementary to the Departments' current strengths. Preference will be given to candidates with expertise in bacteriology. Review of applications will begin 1 December 2000 and continue until the position is filled. Please submit curriculum vitae, statement of teaching philosophy and research objectives, and three letters of reference to: Dr. Berry-Lowe, Interim Chair, UCCS, 1420 Austin Bluffs Parkway, Bio-SB1, Colorado Springs, CO 80918. Telephone: 719-262-3266; FAX: 719-262-3047; e-mail: rjackson@mail.uccs.edu.web; website: www.uccs.edu. The University of Colorado is an Equal Opportunity/Affirmative Action Employer and encourages a diversity of applicants.

BIOLOGY, DEPAUW UNIVERSITY, Developmental Biologist and Physiologist. The Department of Biology at DePauw University seeks to fill two tenure-track positions to begin fall 2001: developmental biology and animal physiology. Rank and salary will be commensurate with experience. Successful candidates are encouraged through start-up and sustaining funding to develop on-campus research involving undergraduate majors. Teaching duties will also include introductory courses for majors and nonmajors. Preference will be given to candidates who can also teach in the areas of invertebrate biology, molecular biology, genetics, or other areas that diversify the biology curriculum. Candidates should submit curriculum vitae and statements of teaching and research interest and should arrange to have three letters of recommendation sent to: Search Committee, Department of Biology, DePauw University, Greencastle, IN 46135. Website: http://www. depauw.edu. Application deadline: December 1, 2000. DePauw University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

#### POSITIONS OPEN

#### RESEARCH ASSOCIATE (FIVE OPENINGS) CENTER FOR INSECT SCIENCE University of Arizona

Postdoctoral Excellence in Research and Teaching (PERT) offers up to three years of support to outstanding candidates seeking advanced research train ing in insect science and preparation for the additional demands of an academic career. PERT trainees may select from among over 40 faculty research mentors representing a broad range of insect science disciplines: genetics, biochemistry, neurobiology, ecology, evolutionary biology, molecular/cellular biology, entomology, physiology, behavior. During the threeyear research training period, each traince will participate in a two-semester pedagogy program. Trainces will receive preparation in additional areas such as the job application process; grantsmanship; and how to balance research, teaching, and service during the tenure and promotion process. Funded through the NIH, the starting salary is \$29,000, with an annual allowance of \$5,000 for research and \$1,000 for travel. Each trainee will have exclusive use of a laptop computer. Additional information about the Center for Insect Science and the PERT program is available at website: http://cis.arl.arizona.edu/index. html. Applicants must have a Ph.D. and be U.S. citizens or permanent residents. Applications must include a three-page research proposal developed with the intended Center for Insect Science research mentor, a statement of how participation in the PERT program will advance the applicant's career goals, curriculum vitae, and three letters of reference to: **PERT**, Center for Insect Science, P.O. Box 210106, University of Arizona, Tucson, AZ 85721-0106. Review of applications will begin January 16, 2001, for appointments beginning August 2001 and will continue until positions are filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action/Minorities/ Women/Disabled/Veterans Employer.

#### ASSOCIATE OR FULL PROFESSOR POTATO MOLECULAR BIOLOGY

A 12-month, tenure-track position at the University of Idaho to begin by June 1, 2001. Candidate must be capable of establishing a nationally and internationally competitive program in potato molecular biology. The incumbent will interact with other Scientists and industry personnel and work in a team envi ronment to address basic research needs. The candidate must be able to communicate effectively and participate in an upper-division undergraduate and a graduate-level course in his/her area of expertise. Applicants should have a Ph.D. in an appropriate field, documented research abilities and experience, and success in writing and obtaining grants. Send letter outlining research and teaching interests and philosophy, curriculum vitae, transcripts, and three letters of reference to: Ms. Michelle Hiseley, Potato Molecular Biology Search, Department of Plant, Soil, and Entomological Sciences, University of Idaho, Moscow, ID 83844-2339. E-mail: mhiseley@ uidaho.edu. Screening of applications will begin on January 31, 2001; however, applications will be accepted until an acceptable candidate is found. More information about the Department can be found on the Departmental website: http://www.uidaho. edu/pses. The University of Idaho is an Affirmative Action. Equal Opportunity Employer.

The Department of Zoology at Tel-Aviv University invites applications for a tenure-track position. We seek broadly educated **BIOLOGISTS** focused on any field of organismic animal biology. Candidates should have a good background in zoology (e.g., endocrinology, genetics, physiology, behavior, or ecology) plus ability to teach (preferably in Hebrew) a course in their respective fields. Suitable candidates will be submitted for an Alon Fellowship. Candidates with at least one year of postdoctoral experience should submit curriculum vitae, list of publications, and request three letters of reference to be sent to: **Professor I. Choshniak, Chairman, Department of Zoology, Tel-Aviv University, Ramat - Aviv 69978, Israel.** 

#### POSITIONS OPEN

#### THREE FACULTY POSITIONS BIOLOGICAL SCIENCES Rochester Institute of Technology

The RIT Department of Biological Sciences anticipates two tenure-track faculty positions and one visiting faculty position to begin on September 1, 2001. Ph.D. is required; demonstrated teaching and postdoctoral experiences are highly desirable. Research in specialty areas is expected. We are a growing department of 14 faculty and 400 majors in two undergraduate degree programs (biology and biotechnology). Further information about the programs is available on the Department's website: http://www. biology.rit.edu.

INVERTEBRATE BIOLOGIST. The successful candidate will be expected to teach invertebrate zoology; to participate in introductory courses; and to develop courses and research projects in area of specialty with special preference given to physiological ecology, aquatic biology, entomology, parasitology, developmental biology, or endocrinology. VIROLOGIST. The successful candidate will be

**VIROLOGIST.** The successful candidate will be expected to teach courses in virology and microbiology and to develop courses and research projects in animal or plant viral systems.

**DEVELOPMENTAL BIOLOGIST** (visiting, one year only). The successful applicant will teach courses in introductory developmental biology, molecular biology, and human genetics.

Closing date for applications is January 15, 2001. Submit statement of academic and research interests, teaching philosophy, curriculum vitae, and arrange to have three letters of reference sent to: Chair, Search Committee, Department of Biological Sciences, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603. *RIT is* an Equal Opportunity/Affirmative Action Employer and especially encourages applications from persons able to contribute in a meaningful way to the Institute's commitment to diversity and pluralism.

#### NATIONAL CANCER INSTITUTE/ TENURE-TRACK PRINCIPAL INVESTIGATOR micel Corrigorometic With a France on D

#### Chemical Carcinogenesis With a Focus on DNA Damage and Repair

The incumbent will establish a new group to study the chemical and biological consequences of carcinogen damage to DNA. Adequate space and start-up funds will be provided to establish the laboratory Candidates with a Ph.D. and/or M.D. degree should have demonstrated performance in either the areas of carcinogen-DNA damage and repair, mutagenicity of specific carcinogen-DNA adducts in selectively modified DNA templates, or the identification of polymerases responsible for the synthesis of DNA past carcinogen-modified bases. Applications should include curriculum vitae with bibliography, a statement of research goals, and copies of relevant publications sent to: Lisa Virts, Executive Secretary, National Cancer Institute at Frederick, Building 578, Room 22, P.O. Box B, Frederick, MD 21702. In addition, please have three letters of recommendation sent directly to the above address. Applications must be received no later than January 31, 2001. The National Cancer Institute is an Equal Opportunity Employer. Candidates must be U.S. citizens or permanent residents.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITIONS in molecular endocrinology. Positions available immediately to participate in NIH-funded studies regarding the role of forkhead transcription factors (*JBC* 274:17184, 1999). Studies *in vitre* and in cells focus on the regulation of cellular trafficking and transactivation by forkhead proteins and the identification of novel gene targets. Targeted knockout models will be developed to examine the role of forkhead proteins in insulin action *in vive*. Experience with techniques of molecular and cellular biology required. Send curriculum vitae and three references to: Dr. Terry Unterman, Endocrine Section (M/C 640), Department of Medicine, University of Illinois at Chicago, 1819 West Polk Street, Chicago, IL 60612-7333. E-mail: unterman@uic.edu; FAX: 312-455-5877.



For additional information,

Email: colloquia@nas.edu

Web: www.nas.edu/nas/colloquia

Space for this meeting is limited, so please register early.



#### HELP SHAPE THE FUTURE OF NEUROSCIENCE

The Scientific Review Branch of NINDS, NIH, is seeking one or more Scientific Review Administrators to analyze the scientific content of grant applications, select appropriate reviewers, conduct review committee meetings, and provide advice regarding peer review and programmatic issues.

This is a GS 13/14 civil service position (salary range - \$60,890 - \$96,769). Physicians may be eligible for a Physician's Comparability Allowance. Applicants must have U.S. citizenship, a Ph.D. or M.D., and postdoctoral experience in neuroscience research. Applicants with a broad knowledge of neuroscience and neurological disorders, and excellent administrative skills, are particularly sought.

Applicants should submit by 02-01-01 a letter of application (refer to vacancy # NINDS-00-0328), a brief description of career interests, and curriculum vitae to: Mr. Luis Arvelo, NIH, NINDS HRB, Building 31, Room 8A23, 31 Center Drive MSC 2540, Bethesda, MD 20892-2540; FAX: (301) 480-0383; e-mail: la45j@nih.gov. Applicants are strongly encouraged to obtain information concerning the knowledge, skills and abilities needed for the position by contacting Mr. Arvelo at (301) 435-6033. For complete information regarding the vacancy please see our Web site at http://www.ninds.nih.gov/ jobs and training/.

NIH is an Equal Opportunity Employer.



#### NATIONAL ACADEMY OF SCIENCES COLLOQUIUM

Molecular Kinesis in Cellular Function and Plasticity

December 7-9, 2000 Beckman Center, Irvine, California

Organized by Henri Tiedge, Floyd E. Bloom, and Dietmar Richter

### Session I: Molecular Motors: Processing, Transport, and Translation of RNA

Scheduled speakers: Steven Block, Lawrence Goldstein, Nobutaka Hirokawa, Robert Singer, Reinhard Luhrmann, Bertil Daneholt, Iain Mattaj, John Carson, Howard Lipshitz, Stephen Burley, Cristopher Hellen, Nahum Sonenberg, Mattias Hentze

Session II: RNA and Protein Localization: Neuron Plasticity

Scheduled speakers: Gary Baker, Morgan Sheng, Paul Worley, James Eberwine, Joel Richter, Oswald Steward, Eric Kandel, Andrew Matus, Bruce McEwen, William Greenough

#### **REGISTRATION** (forms at website listed below)

Registration Fee (Non-refundable/can be transferred), including meals:\$200 General Participant\$90 Graduate Student

For additional information,

Email: colloquia@nas.edu

Web: www.national-academies.org/nas/colloquia

Poster presentations are welcome. Space for this meeting is limited, so please register early.

#### INITIATIVE PROGRAM MANAGER MOLECULAR BIOTECHNOLOGY NORTHEASTERN UNIVERSITY

Northeastern University is planning a major Universitywide interdisciplinary initiative in molecular biotechnology. The University is seeking an accomplished Program Manager to work in close collaboration with the project's executive committee to develop and implement the initiative. The Executive Committee consists of the Dean of the College of Arts and Sciences, the Dean of the Bouve College of Health Sciences, and the Director of the Barnett Institute of Chemical and Biological Analysis. The Program Manager will help shape the direction of the initiative, help raise funds, interact with industry, and provide outreach to and foster collaboration with faculty and Scientists within the University and scientific communities. The Program Manager will serve as the chief operating officer for the initiative and will oversee its financial, research, and facilities functions. Candidates must have a Ph.D. and postdoctoral experience will be helpful. Must have a proven record of program development; management and academic-industrial partnership development in molecular biotechnology, pharmaceutical science, or related field in industry; and a government or research setting. Experience with fund-raising is desirable. Send cover letter and résumé to: Dean James R. Stellar, College of Arts and Sciences, 100 Meserve Hall, Northeastern University, Boston, MA 02115. Northeastern University is an Equal Opportunity Affirmative Action Employer.

#### **RESEARCH SCIENTIST POSITION**

The Research Department at Shriners Hospitals for Children in Tampa seeks a full-time Research Scientist to work on a clinically oriented project studying the effects of ischemic injury on osteoclastic and osteoblastic activities in an animal model. The position allows the candidate to become a coinvestigator in the future and gives the opportunity to work with other Scientists and Clinicians in the Department. Desirable experience for the position includes bone biology, animal studies, and histomorphometry. Ph.D. degree is preferred. Shriners offers excellent salary and benefits package. Our facility is located on the University of South Florida campus. Please forward a letter describing your experience and curriculum vitae to: Shriners Hospitals for Children, Human Resources, 12502 North Pine Drive, Tampa, FL 33612. FAX: 813-975-7125. Equal Opportunity Employer; alcohol/drug-free workplace.

#### CELL BIOLOGIST

Tenure-track position in cell biology at the ASSIST-ANT PROFESSOR level beginning August 2001. Ph.D. required; postdoctoral experience strongly preferred. The successful candidate will be expected to establish an ongoing research program involving undergraduates and to teach introductory biology as well as upper-level courses in cell biology and related areas. Send current curriculum vitae and a description of research and teaching interests and arrange for three letters of recommendation to be sent directly to: Dr. Peter Bushnell, Chair, Department of Biological Sciences, Indiana University South Bend, P.O. Box 7111, South Bend, IN 46634. Deadline for receipt of completed application is January 1, 2001. IUSB is an Equal Opportunity Employer and encourages applications from all qualified candidates

#### ASSISTANT OR ASSOCIATE PROFESSOR BIOLOGY (TENURE TRACK) WARTBURG COLLEGE

To teach two-term upper-level mammalian anatomy and physiology sequence, general biology for majors, and general education courses; advise premedical students; supervise undergraduate research. Wartburg is an accredited four-year coeducational liberal arts college of the Lutheran Church (ELCA). For details, contact: **Dr. Ann Henninger, Wartburg College, Waverly, IA 50677. Telephone: 319-352-8280;** e-mail: henninger@wartburg.edu. For full position announcement, see website: www.wartburg.edu/ hr. Affimative Action/Equal Opportunity Employer.

#### POSITIONS OPEN

#### RESEARCH ASSOCIATE PROFESSOR IN MR PHYSICS The University of Illinois at Chicago

A new tenure-track position at the Associate Professor level is available within the Center for Magnetic Resonance Research in the Department of Radiology at the University of Illinois at Chicago. The research program has state-of-the-art cross-sectional MR imaging equipment including one 3T LX (8.3) Signa GEMS scanner housed in a new comprehensive outpatient facility. Opportunities abound for MR imaging research with the development of a 9.4T human scanner to be installed in 2001. There is also access to two 1.5T LX scanners. In addition to conventional MRI, the research program includes diffusion, perfusion, sodium and routine functional MR imaging, and MR spectroscopy. Close clinical and research collaborations exist with neurosurgery, neurology, and psychiatry. The successful applicant will be a Ph.D. Physicist or Engineer with at least five years of experience in MR physics (possibly with an industrial experience) able to start in this year of 2000 and have strong motivation for helping to establish a high-quality, state-of-the-art MR research program in a collaborative dynamic clinical and research environment. Experience with GEMS scanners and pulse progamming is essential. Attractive compensation package is available.

For fullest consideration, please forward curriculum vitae and introduction letter to: Keith R. Thulborn, M.D., Ph.D., Professor and Director of the MR Research Program, University of Illinois at Chicago, Outpatient Care Center, 1801 West Taylor Street (M/C711), Chicago, IL 60612. The University of Illinois is an Affirmative Action/Equal Opportunity Employer effering competitive salary and benefits package.

The Agency for Toxic Substances and Disease Registry (ATSDR) located in Atlanta, Georgia, is responsible for the health-related issues pertaining to hazardous waste sites and emergency chemical releases. A search for a DEPUTY DIRECTOR, DIVISION OF TOXICOLOGY (DT) is underway. Responsibilities of the incumbent are: Provide scientific administration and management of the day-to-day activities of DT, coordinate activities with Toxicological Profiles and Research, identify and publish a list of the most hazardous substances related to Superfund Releases, provide chemical-specific consultations, initiate research of relationships between exposure to hazardous substances and adverse health effects, and coordinate ATSDR activities with National Toxicology Program and International Program on Chemical Safety.

For more information on this position, access the ATSDR/CDC job information hotline at website: www.atsdr.cdc.gov or Telephone: 770-488-1725 for an application package and a copy of the announcement. Medical doctors should refer to announcement DE1-01-116, and Environmental Health Scientists and others should refer to announcement DE1-01-115. Announcements will open on November 24, 2000. Applications must be postmarked by January 18, 2001. *ATSDR is an Equal Opportunity Employer and provides a smoke-free environment.* 

#### FISHERY SCIENTIST/BRANCH CHIEF

NOAA, National Marine Fishery Service, seeks Fishery Scientist/Ecologist (\$75,887 to \$98,649) as Chief, Ecology Branch, Southwest Fishery Science Center, Santa Cruz Laboratory, to lead Fishery Biologists, Ecologists, and Geneticists engaged in research to conserve West Coast groundfish and threatened and endangered salmon in California. Duties include research; program planning, development, and coordination; and policy recommendation. See websites: www.wasc.noaa.gov or www.usajobs. opm.gov for more information or Telephone: 206-526-6407. Ph.D. or equivalent and must be a U.S. citizen. Apply to: NOAA Human Resources, 7600 Sand Point Way N.E., Seattle, WA 98115, Atten-tion: W/NMF/SWF000525A.RJ, postmarked no later than December 7, 2000. Department of Commerce is an Equal Opportunity Employer.

#### POSITIONS OPEN

#### SENIOR AQUATIC ECOLOGIST UNIVERSITY OF KANSAS

ASSOCIATE/SENIOR SCIENTIST, Kansas Biological Survey (80%) and ASSOCIATE/FULL PROFESSOR, Department of Ecology and Evolutionary Biology (20%). Required qualifications: (1) Ph.D. in aquatic ecology or related fields. (2) Demonstrated Senior Investigator productivity including a substantial publication record and a substantial record of external research funding as Principal Investigator. (3) Demonstrated research leadership including collaborative initiatives and record of developing research infrastructure. (4) A commitment to excellence in teaching and mentoring at undergraduate and graduate levels. (5) Ability to teach courses in aquatic ecology, ecology and/or aquatic entomology, fisheries biology, stream ecology, and other core courses, as well as seminars in areas of expertise. Preference will be given to individuals with  $(\hat{1})$  interdisciplinary perspectives, (2) rigorous quantitative approaches to ecological questions, (3) strong interests in research involving experimental manipulation of field conditions that could utilize the University of Kansas Aquatic Field Station, (4) interests in insect and fish communities and in ecotoxicology, and (5) demonstrated teaching experience and ability. Position begins August 18, 2001, or January 1, 2002; has salary commensurate with experience; and is contingent upon budgetary approval. Review of all applications will begin 8 December 2000 and will continue until position is filled. Applications materials include (1) curriculum vitae; (2) concise statements of current research and future directions, leadership and record of developing research infrastructure, and teaching philosophy and experience, including courses the applicant is qualified to teach; (3) copies of selected publications; (4) letters of reference from at least three persons to be submitted to: Ms. Nancy Leek, Administrative Assistant, Kansas Biological Survey, 240 Nichols Hall, 2335 Irving Hill Road, University of Kan-sas, Lawrence, KS 66045-7612. Telephone: 785-864-7725; FAX: 785-864-0392; e-mail: nleek@ ukans.edu; websites: http://www.kbs.ukans.edu and http://www.ukans.edu/~eeb. Equal Opportunity/Affirmative Action Employer.

#### STAFF SCIENTIST

A position is available for a Staff Scientist to supervise technical staff, oversee growth and analysis of biohazardous organisms, and write technical reports and proposals. This position requires the employee to work in the BSL-3 and BSL-4 laboratories. A Ph.D. in a biological science is required. Evidence of independent research capabilities is required. A bacteriology or virology background is required. A thorough knowledge of protein expression and purification and antibody production/ELISA development is necessary. Strong organizational and communication skills are a must. Some travel will be required (10%). Must have a valid driver's license and meet SFBR driving standards. Must be a U.S. citizen. Must be able to pass a postoffer background check for a security clearance. Please send curriculum vitae and three letters of reference to: Director of Human Resources (00-048S), Southwest Foundation for Biomedical Research, P.O.B. 760549, San Antonio, TX 78245-0549. Visit our website: www.sfbr.org. Equal Opportunity Employer.

#### POSTDOCTORAL POSITION MOLECULAR BIOLOGY

Applications are invited to study gene expression in lymphocytes. Candidates should possess a Ph.D. and/or M.D. degree and a strong background in substractive library, gene cloning, and expression. E-mail curriculum vitae and the names of three references to: H. Zaghouani, The University of Tennessee, Knoxville, Department of Microbiology, M409 Walters Life Sciences Building, Knoxville, TN 37996 U.S.A. FAX: 865-974-4007; e-mail: hzagh@utk.edu. For more information on our research interest, visit our laboratory website: http:// division.bio.utk.edu/zaghouanilab/.

#### **ANNOUNCEMENTS**



# **UNCF**•MERCK SCIENCE INITIATIVE



### UNDERGRADUATE

SCIENCE RESEARCH SCHOLARSHIP AWARDS

- 15 Awards Annually
- Scholarships up to \$25,000 Two Summer Internships at
- a Merck Research Facility

#### An applicant must:

- Be a full-time student at any four-year college or university
- Have junior year academic status
- Major in a life or physical science (first professional degrees excluded)
- Have a minimum cumulative GPA of 3.3 (4.0 point scale)

### GRADUATE

"A mind is a terrible thing to teaste"

SCIENCE RESEARCH DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$30,000
- Department Grants of \$10,000
- Support for 12-24 Months

#### An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be engaged in and within 1-3 years of completing dissertation research. having completed all qualifying exams

### POSTDOCTORAL

SCIENCE RESEARCH **FELLOWSHIPS** 

- 10 Fellowships Annually
- Fellowship Stipends up to \$55,000 Department Grants of \$15,000
- Support for 12-24 Months

#### An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow during the 2001 calendar year at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents and attend an institution in the U.S.A. Applications must be postmarked by January 31, 2001 For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., by mail at the United Negro College Fund, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031, by fax (703) 205-3574, or by E-mail: uncfmerck@uncf.org Visit our web site: www.uncf.org

#### **EUROPEAN OPPORTUNITIES**

**Friedrich Miescher Institute Basel / Switzerland** 



### **Group Leader Position in Epigenetics**

Applications are invited for candidates studying DNA methylation, chromatin modification, gene imprinting, gene silencing/RNAi and other epigenetics events in the context of development, differentiation and disease. Candidates combining genetic and biochemical approaches are particularly welcome. The appointed Group Leader will complement ongoing research in the Institute in the fields of epigenetics, gene expression and growth control.

The FMI (www.fmi.ch), which is funded by the Novartis Research Foundation, is an International Institute with over 150 Postdoctoral Fellows and Graduate Students committed to basic research in areas including tumor biology and the nervous system. As of January 1, 2001 its new director will be Y.-A. Barde, successor to Max M. Burger. The FMI is located in Basel, a city offering an outstanding scientific environment in the centre of Europe. It provides state-of-the-art core technologies, transgenic mouse facilities and genomics/proteomics services. Competitive financial support, including running costs and positions, is offered.

Applicants should submit a CV, a concise description of research interest and future plans by January 5, 2001. The names of three scientists familiar with the achievements of the applicant should be included. Please address these materials to Witold Filipowicz (Friedrich Miescher Institute, P.O. Box 2543, 4002 Basel, Switzerland), who can also be contacted for additional information (tel. +41 61 6976993; filipowicz@fmi.ch).

#### **ANNOUNCEMENTS**

science museum | wellcome wing

### **Opportunity to collect** volunteer data

The Science Museum is looking for biomedical research proposals as part of its Live Science initiative. Live Science is an exciting project taking place within the Wellcome Wing's Who am I? gallery on contemporary biomedical science. It will give established researchers an opportunity to interact with, and collect sample data from visitor volunteers. Work in Live Science will also fulfill many of the public understanding of science obligations required by research councils.

We are calling for new biomedical proposals to be part of Live Science from January 2001 onwards. If you would like to start research in Live Science in early January, please submit proposals by 15 December 2000. We are also looking for proposals for the rest of 2001.

Projects must be non-invasive (buccal DNA sampling is acceptable), be fully funded and have ethical approval. Live Science takes place within a purpose-built area which is fully equipped for experimentation and data collection

Further details are available on request. Contact: Sabiha Foster Science Museum Exhibition Road London SW7 200 Tel: +44 (0) 20 7942 4855 Fax: +44 (0) 20 7942 4241 e-mail: s.foster@nmsi.ac.uk



#### PROTEOMICS RESEARCH PLANTGENIX, INC. PHILADELPHIA, PENNSYLVANIA

Applications are invited from an energetic and creative PROTEIN SCIENTIST to join and eventually lead a small research group concerned with proteomic analyses of the model plant Arabidopsis thaliana. Mini-mum qualifications are a Ph.D. and at least two to three years of postdoctoral experience in analytical chemistry or biochemistry with special emphasis on protein identification. Experience in protein mass spectrometric techniques, including MALDI-TOF and/or Q-TOF, is highly desirable. The ability to work constructively and effectively in a small group is crucial. PlantGenix, Inc. (website: www.plantgenix. com) is a one-year-old plant biotechnology company located in Philadelphia and focused on the development of specific plant applications for membrane transport and ethylene modulation technology. Please forward letter of application, curriculum vitae, copies of no more than two to three representative publications, and arrange for four letters of recom-mendation to be sent to: Phil Heifetz, PlantGenix, Inc., P.O. Box 1955, Southeastern, PA 19399-1955. E-mail: phil@plantgenix.com.

The deadline for applications is December 1, 2000.

#### DIRECTOR BONE HISTOMORPHOMETRY CORE LABORATORY

The University of California and Veterans Affairs Medical Center, San Francisco, are recruiting a Director for a bone histormorphometry core laboratory. The Director will be responsible for processing huhistomorphometry, light and electron microscopy, *in situ* hybridization, immunocytochemistry, and quantitative analysis of microscopic images using digital imaging technology in support of NIH, DOD, VA, and NASA-funded programs. The successful candidate will have advanced training in a biological science and hands-on experience with bone histomorphometry. Experience with animal experimentation is esential. Please send your curriculum vitae to: **Bernard Halloran, Ph.D., VA Medical Center, 111N, 4150 Clement Street, San Francisco, CA 94121.** 

The American Institute of Biological Sciences, a nonprofit scientific association in Washington, D.C seeks a SCIENCE EDITOR for its peer-reviewed monthly publication, BioScience (in print and online, see website: www.aibs.org) to work with authors from the professional biological community. Responsibilities include solicitation/peer review of scientific manuscripts and development of feature articles, special issues, and editorial focus, all to meet BioScience's high standards for accurate, readable articles on a broad range of biological topics. Excellent communication and writing skills a must. Requires a Ph.D. in biology and prior editorial experience. This is a fulltime, salaried position. Benefits include health care/ retirement plan. Send cover letter, résumé, references, and salary requirements to: Executive Director, Attention: Science Editor Search, AIBS, 1444 Eye Street, N.W., Suite 200, Washington, DC 20005. FAX: 202-628-1509; e-mail: rogrady@aibs.org.

#### GENOMICS UNIVERSITY OF CALIFORNIA LOS ANGELES

Senior **POSTDOCTORAL POSITION** available for genomic studies using DNA arrays and validation methods for assessment of functional and pharmacological implications. Areas of interest include pharmacogenomics, neurobiology, and inflammation. Doctoral degree, publications in peer-reviewed international journals, and proficiency with molecular biology techniques are required. Curricula vitae and names and contact information of three references can be sent to: Dr. Julio Licinio, Director, Clinical Pharmacology Program, UCLA Gonda Center 3357A, 695 Charles Young Drive South, Los Angeles, CA 90095-1761. E-mail: licinio@ucla.edu; Telephone: 310-206-6207; FAX: 310-825-6407.

#### POSITIONS OPEN

#### DIRECTOR, MOLECULAR GENETICS LABORATORY DEPARTMENT OF PATHOLOGY University of Iowa College of Medicine

The Department of Pathology at the University of Iowa invites applications for the position of Director, Section of Molecular Genetics Testing. We seek an M.D. with demonstrated abilities to direct a full-service molecular genetics laboratory in a progressive, 850-bed academic medical center. Preference will be given to those who are Board-certified or Board-eligible in the molecular genetics pathology subspecialty board of the ABMG and ABP. The person recruited into this position will oversee molecular testing as part of a well-established institutional medical genetics program. The Medical Genetics Laboratory is part of a molecular pathology laboratory that also performs extensive testing in the areas of anatomic pathology, hematopathology, and infectious disease diagnosis. Participation in departmental teaching programs and development of an extramurally funded, independent research program will be encouraged. This position will be filled at the ASSISTANT or ASSOCIATE PROFESSOR level

The Molecular Pathology Laboratory occupies a truly superb physical facility with generous space allocation, state-of-the-art equipment, adequate technologist staffing, and an existing institutional reputation for diagnostic excellence, especially in the area of medical genetics. In addition, the medical center has recently made a serious commitment to substantially expanding the activities of the Molecular Diagnostics Laboratory, including the medical genetics area.

Salary will be commensurate with the qualifications and experience of the person chosen for this position. Those interested in this position should submit curriculum vitae, brief statements describing professional goals and past research accomplishments, and the names of three references to:

#### Ms. Vicki Brown Executive Secretary Department of Pathology 1117 ML University of Iowa College of Medicine 200 Hawkins Drive Iowa City, IA 52242

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

#### COMPUTER SCIENCE/BIOINFORMATICS CANISIUS COLLEGE

Canisius College invites applications for a **TEN-URE-TRACK POSITION** in a new interdisciplinary program in bioinformatics. Candidates should have a Ph.D. in computer science, bioinformatics, or related field. The ability to teach a variety of computer science and bioinformatics courses and engage in multidisciplinary research is essential. Salary is competitive and includes start-up funds.

Canisius College is an independent institution in the Jesuit tradition. Additional information is at website: www-cs.canisius.edu and specific questions can be directed to e-mail: mcconnel@canisius.edu. Submit curriculum vitae, teaching philosophy, research plan, and contact information for at least three references to: Dr. Jeffrey J. McConnell, Chair, Computer Science Department, Canisius College, 2001 Main Street, Buffalo, NY 14208 by January 3, 2001. Canisius College is an Equal Opportunity Institution and encourages applications from women and minorities.

POSTDOCTORAL POSITION in proteinase expression and inhibition. Experience in protein expression and purification, mutagenesis, and/or enzyme kinetics preferred. Send résumé and three letters of recommendation to: Dr. Robert P. Hanzlik, University of Kansas Department of Medicinal Chemistry, 1251 Wescoe Hall Drive, Lawrence, KS 66045-7582. Website: http://www.pharm.ukans.edu/medchem/; e-mail: rhanzlik@ukans. edu. Equal Opportunity/Affimative Action Employer.

#### POSITIONS OPEN

#### MOLECULAR OR CELL BIOLOGIST BONE OR CARTILAGE RESEARCH

The Albert Einstein Healthcare Network invites applications for an **ASSISTANT** or **ASSOCIATE SCIENTIST** in the Department of Orthopaedics in the area of molecular or cell biology related to bone or cartilage research. Basic science teaching to resident staff and supervision of resident research projects are responsibilities of this position. Start-up funds for independent research are available.

The successful applicant must possess a Doctoral degree in an appropriate area and is expected to maintain a competitively funded research program. The candidate may be eligible for a faculty appointment at Thomas Jefferson University, and opportunities are available for a teaching position at LaSalle College.

Applicants should submit their curriculum vitae, bibliography, and a brief description of their funded research activities, and arrange to have three letters of reference sent. Applications will be considered in the order they are received. Please send to:

#### John A. Handal, M.D. Chairman, Department of Orthopaedics Albert Einstein Healthcare Network 5501 Old York Road Willowcrest Building, Fourth Floor Philadelphia, PA 19141

Albert Einstein Healthcare Network is an Equal Opportunity/Affirmative Action Employer.

#### **REMOTE SENSING**

The U.S. Department of Agriculture, Agricultural Research Service, Western Integrated Cropping Systems Research Unit, Shafter, California, is recruiting for an interdisciplinary permanent full-time position as a RESEARCH AGRONOMIST, PLANT PHYSIOLOGIST, or RESEARCH ENTOMOL-OGIST. As a team member, the incumbent will use existing and develop novel airborne remote sensing tools to accurately determine and predict crop growing conditions including pest presence, water management, nutrient management, and other factors that could influence management decisions and yield. The overall objectives are to develop user-friendly systems of remotely sensed and georeferenced field conditions to enable decision making by crop consultants, growers, or custom applicators. Salary range is \$41,834 to \$77,507 (GS-11/12/13) per vear. A degree in an appropriate field is required; Ph.D. desired. Obtain the full vacancy text via website: www.ars. usda.gov or call Susan Jones; Telephone: 301-504-1456; indicate Announcement Number ARS-X1W-1037. For technical details of the position, contact the Research Leader, Michael R. McGuire; Telephone: 661-746-8801. Applications must be postmarked by December 4, 2000. Applicants must be U.S. citizens. USDA-ARS is an Equal Opportunity Provider and Employer.

The Massachusetts General Hospital-NMR Center has an opening for a RADIOLOGIST who is needed to develop a program of clinically relevant laboratory research in the application of MRI to study physiology and disease. The successful applicant must have an engineering/physics background, a strong track record of obtaining research funding, and a publication record showing productivity in the area of func-tional and metabolic imaging. The candidate must have expertise in both basic research and clinical MRI pulse sequence development, MRI biological interactions at high magnetic fields, and clinical use of MRI in diagnosis. Radiology Board Certification required. Applicant will be expected to make progress in devel-opment and application of new MRI techniques and, in addition, will be expected to integrate new meth-ods into routine clinical use. The successful candidate will have a concurrent appointment as an ASSIST-ANT PROFESSOR in radiology at Harvard Medical School. Send curriculum vitae and three letters of recommendation to: Dr. Bruce R. Rosen, MGH-NMR Center, Building 149 (2301), 13th Street, Charlestown, MA 02129.

The Massachusetts General Hospital is an Equal Opportunity Employer.

#### EUROPEAN **O**PPORTUNITIES



#### Monterotondo Research Programme

The European Molecular Biology Laboratory (EMBL) invites applications for a position as:

### GROUP LEADER IN MOUSE BIOLOGY (ref. no.: 00/59)

We are interested in excellent candidates who work in the broad field of mouse biology (cell and developmental biology, neurosciences), using modern tools of genetic analysis and phenotypic analysis of mutant mice. The selected candidate will be given a standard EMBL Group Leader appointment initially for 5 years with the possibility of an extension for another 4 years. He/she will also hold an associate appointment in the EMBL Headquarters Laboratory in Heidelberg, which includes groups working on vertebrate gene expression, cell biology and development.

The European Molecular Biology Laboratory is an international research organisation consisting of three Outstations in Hamburg, Grenoble and Hinxton and a Headquarters Laboratory situated in Heidelberg, Germany. An EMBL Research Programme in Mouse Genetics was established beginning of 1998 at the 'Campus Adriano Buzzati-Traverso' at Monterotondo, near Rome, at a site where the 'European Mouse Mutant Archive' (EMMA), and the 'Istituto di Biologia Cellulare' (IBC) of the "Consiglio Nationale delle Ricerche' (CNR) are also established independently. Additional research groups of IBC-CNR and the 'International Centre for Genetic Engineering and Biotechnology' (ICGEB) are expected to move to the Monterotondo campus within the next year.

The research interests of the current EMBL Mouse Biology Programme include anti-viral defense mechanisms (Ulrich Kalinke), receptor tyrosine kinases in brain (Liliana Minichiello), B-cell development (Klaus Rajewsky) and the actin cytoskeleton (Walter Witke, Acting Coordinator). K. Rajewsky and U. Kalinke will be departing in 2001-2002.

Informal enquiries can be made directly to:

Dr Walter Witke, tel.: +39 06 90091 268, fax: +39 06 90091 272, witke@embl-monterotondo.it

Extended closing date for applications: 24 November 2000. The appointment will be available from March 2001.

EMBL is an inclusive, equal opportunity organisation. By providing an exciting and stimulating research environment consisting of young, independent research groups it also provides access to outstanding graduate students and postdocs. The Laboratory provides financial help in relocating families and additional benefits.

Applications, comprising a curriculum vitae, a short description of research accomplishments and future plans, and three letters of reference should be sent, quoting ref. no. 00/59, to:

The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555; Tel.: +49 6221 387 208; email: jobs@embl-heidelberg.de

#### **GLOBAL OPPORTUNITIES**

# Managing Director

### Focus on R&D commercialisation

AMRAD is a focussed pharmaceutical biotech company with an outstanding pipeline of R&D projects, three of which are undergoing or entering phase II clinical trials. The company's state of the art facilities are located on an inner Melbourne garden site.

You will lead a stable team of 60 quality staff, almost one third of whom have doctorates. Annual R&D expenditure exceeds US\$10M, cytokines and virology being key areas, with established reputations for excellence.

Your proven leadership abilities in the bioscience field should recognise the vital role of R&D and the need for the company to generate substantial funding from collaborative arrangements to speed projects to market. You will also have been able to develop high level relationships with diverse stakeholders.

Please email jw@brookerconsulting.com.au, post to: Level 3, 170 Queen Street, Melbourne, 3000 Victoria, Australia or ring Jeremy Wurm on +61-3- 9640 0733, in total confidence.





Recruiting excellence worldwide

#### POSTDOCTORAL ASSOCIATE CARDIOTHORACIC SURGERY

A position is open to carry out studies on the molecular basis of heart failure and coronary graft failure. The principal focus of this research is to determine differences in gene expression between normal and failing hearts and grafts in both human and in experimental animals. The position requires experience in cardiothoracic surgery on large animals. The ideal candidate will also have some background in molecular biology, specifically in RNA preparation and hybridization analysis. Send curriculum vitae and reference list to: Dr. Daniel F. Catanzaro, Director of Cardiovascular Research, Department of Cardiothoracic Surgery, Weill Medical College, Cornell University, 1300 New York Avenue, New York, NY 10021. FAX: 212-746-2177; e-mail: dfcatanz@ mail.med.cornell.edu. Cornell University is an Equal Opportunity/Affirmative Action Employer.

Dapeng-Mutgene Corporation in Xi-An, China, invites applications for five SENIOR SCIENTIST and five STAFF SCIENTIST/POSTDOCTORAL FELLOW positions in joining the dynamic molecular biotechnology company focusing on the fields of knockout and transgenic mice facility, generic drug, anticancer agent, and molecular diagnostic product. Staff Scientists require Ph.D. or Master's degree with three years of experience, and Senior Scientists need Ph.D. with minimum three years of postdoctoral experience in cell and molecular biology, immunology, molecular pharmacology, and molecular genetics; industrial experience is a plus. Staff Scientist salary: U.S. \$20,000 to \$25,000; Senior Scientist U.S.\$ \$30,000 to \$40,000. Relocation fee and stock option package. Interested individuals send curriculum vitae and names of three references to: Dr. Meng, e-mail: Lwwm123@aol.com or FAX: 305-682-9053 by December 15, 2000.

**POSTDOCTORAL POSITIONS** available immediately to study the effects of arsenic and chromium on steroid hormone receptor-mediated signaling and subsequent alterations in gene expression and the role of these effects on increased risk of cancer, vascular disease, and diabetes. Experiecne in cell culture, molecular biology, and biochemistry techniques is required, and a background in either molecular toxicology or steroid biochemistry is highly desirable. U.S. *citizenship is required due to funding restrictions*. Send curriculum vitae and names of three references to: Dr. Joshua W. Hamilton, Director, Toxic Metals Research Program, Center for Environmental Health Sciences, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755-3835. E-mail: josh. hamilton@dartmouth.edu. Dartmouth College is an Affimative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study the mechanism and dynamics of protein folding in the absence and presence of chaperones, especially those in the hsp60 class. Candidates should have experience in fluorescence and other spectroscopic methods and some background in NMR. Knowledge of site-directed mutagenesis would be useful. Full descriptions of research work can be found at website: http://www.biochem.wustl.edu/cflab. Send curriculum vitae and names of references to: Dr. Carl Frieden, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110. E-mail: frieden@biochem. wustl.edu. An Equal Opportunity Employer.

**POSTDOCTORALS.** Department of Psychiatry, University of Illinois at Chicago (UIC), seeks Postdoctoral positions for studying the neurobiology of depression and suicide using combined molecular and anatomical approaches. Candidate should have a Ph.D. Experience is required in molecular biology (RT-PCR, cloning, transfection studies, *in situ* hybridization), immunohistochemistry, or molecular genetics. Send curriculum vitae and references to: Dr. Ghanshyam N. Pandey, Ph.D., Psychiatric Institute, University of Illinois at Chicago, Chicago, IL 60612. UIC is an Affirmative Action/Equal Opportunity Employer.

#### POSITIONS OPEN

#### POSTDOCTORAL FELLOWSHIP POSITIONS

Postdoctoral Fellowship positions are available in the Children's Memorial Institute for Education and Research of Northwestern University Medical School. Research opportunities exist in state-of-the-art laboratories interested in developmental genetics. In order to ensure full consideration, please send application letter, names of three references, and curriculum vitae to:

Philip Iannaccone, M.D., D.Phil. Children's Memorial Institute for Education and Research Northwestern University Medical School and Children's Memorial Hospital 2300 Children's Plaza, #204 Chicago, IL 60613 U.S.A. Attention: Postdoc Telephone: 773-880-8266 FAX: 773-880-8266 E-mail: akt23@northwestern.edu

Northwestern University and Children's Memorial Hospital are Affirmative Action/Equal Opportunity Employers. Hiring is contingent upon eligibility to work in the United States. Women and minorities are encouraged to apply.

#### POSTDOCTORAL POSITION PROTEIN ENGINEERING

Ph.D. graduates in chemistry are invited to apply for a Postdoctoral position in protein engineering available immediately. The applicant should have a strong background in organic/peptide synthesis and/or physical organic chemistry. The research will be on protein engineering using synthetic peptides as model system. Applicants should submit curriculum vitae, statement of research interests, and names of three references to: Dr. Y. B. Yu, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, Salt Lake City, UT 84108. Telephone: 801-581-7216; e-mail: ybyl@utah. edu.

#### POSTDOCTORAL POSITIONS (1) Chromosome Dynamics (2) bZIP Dimers and Growth Control

NIH-funded positions are available to study meiotic chromosome dynamics and signal transduction via bZIP transcription factors in fission yeast (PubMed "Wahls WP"). Compensation is highly competitive. Applicants should have a record of experimental productivity and peer-reviewed publications. Experience with yeast methodologies would be helpful but is not essential. Send curriculum vitae and references to: Dr. Wayne Wahls, Vanderbilt University School oD Medicine, 621 Light Hall, Nashville, TN 37232-0146. E-mail: wahlswp@ctrvax.vanderbilt.edu.

#### POSTDOCTORAL FELLOWSHIP UNIVERSITY OF WISCONSIN

Immediate openings for several Postdoctoral Fellows trained in cell and molecular biology to study posttranscriptional gene regulation in Alzheimer's disease or asthma. Both projects are NIH funded in an excellent training environment. Madison is a wonderful place to live. Please send curriculum vitae, the names of three references, and a brief research statement to: Dr. J. S. Malter, Department of Pathology, University of Wisconsin–Madison, Madison, WI. E-mail: jsmalter@facstaff.wisc.edu. University of Wisconsin is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study the molecular mechanisms of apoptosis. Current research projects include regulation of caspases and signaling pathways of apoptotic receptors (*Cell* **89:1067**; *Molecular Cell* **1:319**; *Science* **281:1365**). Experience in molecular biology, biochemistry, or genetics is preferred. Send curriculum vitae and names of three references to: Xiaolu (Kelvin) Yang, Ph.D., University of Pennsylvania School of Medicine, 421 Curie Boulevard, 610 BRBII/III, Philadelphia, PA 19104. FAX: 215-573-8606; e-mail: xyang@mail.med.upenn.edu.

#### POSITIONS OPEN

INSTRUMENTATION MANAGER/NMR FACILITY. The Department of Chemistry at Wake Forest University is seeking a Manager for its NMR facility to operate and maintain the NMR instruments and collaborate with research faculty. The position will become available after January 15, 2001. The successful candidate will (1) maintain the two recently installed (1999) NMR spectrometers (Bruker AVANCE 500MHz and 300MHz instruments) and the SGI workstations; (2) implement, develop, and teach NMR techniques for small molecules and biomolecules; (3) collaborate with research faculty on NMR experiment design and collection of NMR data; and (4) assist in writing proposals to upgrade the instruments. The ideal candidate has a Ph.D. or equivalent in chemistry, biochemistry, or biophysics and a significant background in modern multidimensional and heteronuclear NMR methods as well as good communication skills. Experience with shell script programming and MSI software (Felix 2000) is desirable but not necessary. Applicants should send a letter of application, curriculum vitae, three letters of reference, and a one-page statement of research experience and professional goals to: NMR Search Committee, Human Resources, P.O. Box 7424, Wake Forest University, Winston-Salem, NC 27109-7424. E-mail: wakejobs@wfu.edu. Résumés will be accepted until the position is filled. Wake Forest University is an Affirmative Action/Equal Employment Opportunity Employer.

#### MICROBIOLOGIST

The Gettysburg College Biology Department is seeking a Microbiologist with a Ph.D. required by time of appointment for a one-year position beginning August 2001. The successful candidate will teach microbiology, a junior/senior level course in the person's area of expertise (e.g., algae/fungi), and the first-year course sequence in biology. Enthusiasm for teaching and effective communication skills are required. There may be opportunity for the successful applicant to involve undergraduate students in his/ her research program. Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore/Washington metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus, with an enrollment of 2,300 students. Please send curriculum vitae; statement of teaching and research goals; and names of three references, at least one of whom can address the candidate's teaching abilities, to: Dr. Sherman S. Hendrix, Department of Biology, Gettysburg College, Gettysburg, PA 17325 by January 12, 2001. Applications by e-mail will not be accepted. The College seeks to promote diversity in its community through its Affirmative Action/Equal Opportunity programs; included in an attractive benefits package is a modest Partner Assistance Program.

#### POSTDOCTORAL FELLOWSHIPS AVAILABLE

Postdoctoral Fellowships are available for those interested in studying the tumor suppressor genes and oncogenes involved in human ovarian cancer. Candidates must have a strong background in molecular biology. Send your curriculum vitae and the names and telephone numbers of three professional references to: Jinsong Liu, M.D., Ph.D., Department of Pathology, Box 85, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030-4095. Telephone: 713-745-1102; FAX: 713-792-5529; e-mail: Jiu@mdacc.tmc.edu.

**POSTDOCTORAL POSITIONS** available immediately in NIH-funded project to investigate signal transduction and mechanism of cell death. Experience in cellular biology and gene cloning is essential. Send curriculum vitae and three letters of recommendation to: Dr. Tuan H. Kuo, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201. E-mail: tkuo@ med.wayne.edu. Wayne State University is an Equal Employment Opportunity/Affirmative Action Employer.



#### **Director of Bioinformatics**

As the manager of our bioinformatics department, you will lead the development, implementation and maintenance of Aptus' bioinformatics software and database systems. Responsibilities include:

- Being "hands on" and leading by example
- Managing the GenoMax sequence analysis system from Informax Inc
- Supporting high throughput sequence analysis and gene mining
- Developing and maintaining relational databases
- Insuring close coordination with R&D scientists
- Managing, recruiting, mentoring and growing junior team members to their fullest potential
- Developing departmental strategy

#### Requirements

- Ph.D. in Life Sciences, Computer Sciences, or equivalent
- Experience in development, maintenance and support of DNA sequence analysis and standard bioinformatics software packages
- Strong computer skills, particularly in the Unix environment with knowledge of C++, Perl and SQL
- Development and administration experience with Oracle RDBMS
- Strong interpersonal, and written/verbal communications skills

#### **Aptus Genomics Inc.** 9700 Great Seneca Hwy Rockville, MD 20850 Recruiting@AptusGenomics.com

Aptus Genomics, an equal opportunity employer, is an entrepreneurially focused, Pre-IPO company whose mission is to "Industrialize Functional Genomics." Aptus is the Latin word for "connected."

### BOTANY OPPORTUNITIES AT THE NATURAL **HISTORY MUSEUM**

A major international centre for collections-focused systematics research, the Natural History Museum is at the forefront of modern biodiversity studies. We require experienced plant systematists/biologists for four new positions in the Department of Botany. Each position requires good communications skills, a collaborative inclination, and grant-winning abilities:

### Neotropical Floristician/Monographer

This is a tenure-track position with a starting salary of ca. £23k (negotiable).

A systematist with a passion for collections-based research is required to join a small team studying flowering plants for the Flora Mesoamericana project. You should have a postgraduate degree in a biological subject, be well organised and be able to undertake both team-based and independent research. Previous floristic, monographic and/or molecular experience and interests in a critical group of tropical flowering plants are also desirable, as are field and editorial skills

### Macaronesian Floristician/Monographer

This is a tenure-track position with a starting salary of ca. £23k (negotiable).

We are expanding our small established team conducting floristic and monographic studies in the Macaronesian islands. You should have strong botanical skills and interests in broader applications such as conservation, biogeography and/or evolutionary radiations. You should have biologically-related BSc and preferably postgraduate degrees, experience of field work and some knowledge of the systematics of temperate flowering plants. Editorial, organisational and collaborative skills are highly desirable.

### **Evolutionary-Developmental Plant Geneticist**

This is a tenure-track position with a starting

#### salary of ca. £23k (negotiable).

Our rapidly growing molecular facilities will be used to investigate the developmental genetics of specific key transitions in the evolution of the Plant Kingdom, as part of our new interdepartmental Evolution and Developmental Genetics Programme. Applicants with strong laboratory skills, and experience of model organisms, but also broader interests in evolutionary biology and comparative systematics, will be especially welcome. You should possess a postgraduate degree, preferably in molecular genetics or molecular systematics, and a proven track record in molecular biology.

### **Molecular Plant Systematist**

This is a three-year position with a starting salary of ca. £18k.

This three-year technical and research position will underpin both our new evolutionarydevelopmental genetics programme and several molecular phylogenetics projects that span a taxonomic range from diatoms to orchids. You should possess a BSc in biology, molecular biology or genetics, ideally with a postgraduate degree encompassing molecular systematics. Strong laboratory, data-analysis and writing skills, molecular phylogenetic publications, and a willingness to instruct other researchers in a collaborative environment are also desirable.

All positions include a non-contributory pension scheme and will be available from January 3rd 2001.

Application is by CV and covering letter containing the names and addresses of three referees.

Closing date for applications for all positions: 8th December 2000.

Informal enquiries to Prof. Richard Bateman (Head of Botany) on +44 (0)207 942 5282

For further information, please send an A5 SAE to: Jenny Young, Department of Human Resources, The Natural History Museum, Cromwell Road, London SW7 5BD or email: jeny@nhm.ac.uk.



Web: http://www.nhm.ac.uk/science

#### POSTDOCTORAL FELLOW IN OPHTHALMOLOGY University of Washington School of Medicine

The University of Washington, Department of Ophthalmology, invites applications for a **POST-DOCTORAL FELLOW** to conduct projects related to cornea-specific promoters, engineering of corneal cells in vitro, gene transfer with viral vectors, corneal wound healing, and growth factor regulation of corneal development. Candidate is expected to have a Ph.D. or M.D. degree and experience in molecular or cell biology.

Applicants should send curriculum vitae and three letters of recommendation to: Steven E. Wilson, M.D., Professor and Chair, Department of Ophthalmology, University of Washington, Box 356485, Seattle, WA 98195-6485. The University of Washington is building a culturally diverse

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.

#### POSTDOCTORAL RESEARCH POSITIONS INSTITUTE FOR QUANTUM INFORMATION

California Institute of Technology

The Institute for Quantum Information at the California Institute of Technology will have Postdoctoral Scholar positions available beginning in September 2001. Researchers interested in all aspects of quantum information science are invited to apply. Curriculum vitae, publication list, statement of research interests, and three letters of recommendation should be sent to: Professor John Preskill, MC 452-48, California Institute of Technology, Pasadena, CA 91125 U.S.A. The California Institute of Technology is an Equal Opportunity/Affinative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Functional and structural genomics in the eye: A POSTDOCTORAL POSITION is available in the Section on Molecular Structure and Function. A wide range of approaches is being employed including EST analyses, development of microarrays for ocular tissues, knockout and natural mutant mouse models, and structure/function studies including crystallography and NMR of recombinant proteins. Applicants should have a Ph.D. degree with up to five years of postdoctoral experience in relevant techniques. Candidates should send their curriculum vitae, bibliography, and names and addresses of three references to: Dr. Graeme Wistow, Building 6, Room 331, Section on Molecular Structure and Function, National Institutes of Health, Bethesda, MD 20892-2740. E-mail: graeme@helix.nih.gov. NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** is available immediately to study the cellular and molecular biology of dendritic cells. Areas of investigation include examination of the functional properties of dendritic cells subsets, genetic engineering of dendritic cells with immunoregulatory genes, and transplantation tolerance. Experience in cellular immunology and molecular biology is essential. Interested applicants should send curriculum vitae and names of three references to: Dr. Mark S. Cattral, Associate Professor, Department of Surgery, University of Toronto, Toronto General Hospital, 621 University Avenue, Toronto, Ontario M5G 2C4 Canada. E-mail: mark.cattral@uhn.on.ca.

**POSTDOCTORAL ASSOCIATE POSITIONS**, Institute of Marine and Coastal Sciences, Rutgers, The State University of New Jersey. One-year appointments, renewable, in the areas of biological, chemical, geological, and physical oceanography. Please send résumé; a statement of research interest; and the names of three references by February 1, 2001, to: Dr. J. Frederick Grassle, Rutgers, The State University, Institute of Marine and Coastal Sciences, 71 Dudley Road, New Brunswick, NJ 08901-8521. Rutgers is an Equal Opportunity/Affirmative Action Employer.

#### POSITIONS OPEN

The University of Texas Medical Branch at Galveston



POSTDOCTORAL (M.D./PH.D./D.V.M.) RESEARCH TRAINING Emerging and Reemerging Infectious Diseases

The NIH/NIAID supported program offers multidisciplinary training opportunities in the epidemiology, immunology, structural biology, and pathogenesis of emerging and reemerging infections including tropical infectious diseases. Opportunities are available for bench and/or field research regarding viral, bacterial, and parasitic agents and their vectors.

Participating departments and centers include the Departments of Internal Medicine; Microbiology and Immunology; Pathology; Pediatrics; and Preventive Medicine and Community Health; the WHO Collaborating Center for Tropical Diseases; the World Reference Center for Arboviruses; and the Sealy Centers for Structural Biology, for Molecular Sciences, and for Vaccine Development. Extensive BSL–3 laboratories are available.

Planned facilities and resources that will be developed over the next two years include a BSL-4 facility and a genomics and bioinformatics program.

Further program and faculty contact information is provided at website: http://stem.utmb.edu/id/ emerg-id.htm. or contact:

Norbert J. Roberts, Jr., Program Director UTMB, Division of Infectious Diseases 301 University Boulevard

301 University Boulevard Galveston, TX 77555-0835 Telephone: 409-747-0236; Fax: 409-772-6527 E-mail: nroberts@utmb.edu

UTMB is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled/Veterans. UTMB hires only persons authorized to work in the United States.

Two **POSTDOCTORAL POSITIONS** immediately available for studies on Rho GTPase function/regulation. Projects include regulation of Rho GTPases by GEFs in the context of spatially controlled signaling in motility, biology, and regulation of p21-activated kinases and leukocyte regulation by GTPases. Highly motivated, productive individuals capable of interacting well within a modest-sized research group are sought. Experience with molecular biology, yeast two-hybrid analysis, cell biology, adhesion, live cell microscopy, leukocyte function is desirable depending on project. Salaries commensurate with experience. Send curriculum vitae and three reference letters to:

Gary M. Bokoch, Ph.D. Immunology–IMM14 The Scripps Research Institute 10550 North Torrey Pines Road La Jolla, CA 92037 U.S.A. E-mail: bokoch@scripps.edu Telephone: 1-858-784-8217 FAX: 1-858-784-8218

A POSTDOCTORAL FDA STAFF FELLOW position is available in the Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, for a Scientist with a Doctoral degree in molecular microbiology, immunology, or a related field. The individual will review investigational viral and/or bacterial vaccine applications. The candidate should have a background in relevant laboratory techniques, e.g., immunological, biochemical, molecular, and microbiological techniques. Previous Fellowship experience is desirable. The initial appointment is for two years. Candidates must have completed all requirements from an accredited institution for a Doctoral degree and be eligible for the FDA Staff Fellowship program. Requirements include U.S. citizenship or permanent residency. The salaries start at \$60,890. The candidate may also be eligible for the PHS Commissioned Crop. Please mail curriculum vitae to: Kerin Denault, Office of Vaccines Research and Review, 1401 Rockville Pike, Suite 370N/HFM-475, Rockville, MD 20852-1448. Telephone: 301-827-3070; FAX: **301-827-3532**. FDA is an Equal Opportunity Émployer.

#### POSITIONS OPEN

#### POSTDOCTORAL FELLOWSHIPS SENSORY SYSTEMS

The Training Program in Sensory Systems at Wake Forest University School of Medicine is seeking qualified applicants for Postdoctoral Fellowships. The focus of the training program is the development and organization of sensory systems as well as the interactions among these systems and motor processing. The environment within the program is highly collaborative and focuses on multidisciplinary training across sensory systems with approaches ranging from molecular to systems level. In addition to scientific training in a well-funded and collaborative environment, trainees will be mentored in other aspects of the scientific experience including career development, grant writing, and presentation skills. Specific interests of the program faculty and a complete description of the training program can be found at website: http:// www.wfubmc.edu/nba/nba.html.

The training program consists of 11 faculty members in the Department of Neurobiology and Anatomy: Judy K. Brunso-Bechtold, Robert C. Coghill, Dwayne W. Godwin, Craig K. Henkel, James E. Johnson, John G. McHaffie, David R. Riddle, Barry E. Stein, Terrence R. Stanford, Michael Tytell, and Mark T. Wallace.

Applicants interested in training in the laboratories of any of the faculty members listed above should send curriculum vitae, a brief description of current research, and the names and telephone numbers of three references to:

#### Dr. Judy K. Brunso-Bechtold Director, Sensory Training Program Department of Neurobiology and Anatomy Wake Forest University School of Medicine Winston-Salem, NC 27157-1010

Wake Forest University School of Medicine is an Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL POSITIONS

Postdoctoral positions available to study mechanisms of HIV proviral latency in CD4 cells, the role of reservoirs in HIV disease and drug resistance, and HIV-induced apoptosis. Unique investigations ranging from basic molecular virology to clinical trials. Molecular biology experience necessary; virology and/or flow cytometry skill desired. Fluency in English required. Send letter of interest, curriculum vitae, and three references to: David Margolis, M.D., Associate Professor, Division of Infectious Diseases, University of Texas Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75390-9113. Office/FAX: 214-648-2807/2431; e-mail: David. Margolis@utsouthwestern.edu. The University of Texas Southwestern Medical Center at Dallas is an Equal Opportionity Employer.

POSTDOCTORAL OR RESEARCH ASSIST-ANT PROFESSOR POSITION in neuropharmacology to study the effect of substance abuse on brain monoamine levels and turnover. Must have strong background in HPLC-ECD techniques as evidenced by significant publications in this area. Experience with *in vivo* microdialysis would be an advantage. Send curriculum vitae, names of three references, and description of previous research experience to: N. A. Darmani, Ph.D., Department of Pharmacology, KCOM, 800 West Jefferson, Kirksville, MO 63501. FAX: 660-626-2728; e-mail: ndarmani@ kcom.edu. Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL POSITION HARVARD UNIVERSITY

Immediately available to work on the molecular pathogenesis of autoimnune blistering diseases. Experience in cloning and expression of novel proteins in immunology is preferred. Send curriculum vitae and names of three references to: Dr. A. Razzaque Ahmed, Department of Oral Medicine, Harvard School of Dental Medicine, 188 Longwood Avenue, Boston, MA 02115.

#### HEAD

DEPARTMENT OF ANATOMY AND **CELL BIOLOGY** 

#### University of Illinois at Chicago **College of Medicine**

The University of Illinois at Chicago (UIC) College of Medicine invites applications and nominations for the position of Head of the Department of Anatomy and Cell Biology. The UIC College of Medicine is the largest medical school in the nation and is part of Chicago's Westside Medical Complex, well-known for its public and private health care institutions and research facilities, including state-of-the-art microscopy and imaging facilities. The Department, one of six basic science departments within the College, has twelve full time faculty and well-funded research programs. Educational responsibilities include a graduate degree program which emphasizes cellular and systems neuroscience and teaching medical students in the Anatomical Sciences. Within the Department, there is a strong focus in the Neurosciences which spans molecular, organismic and behavioral approaches. Interests range from molecular biology of ion channels to cellular, molecular and sensory physiology, tumor neurobiology, aging, and hormone effects on behavior.

Candidates should have a Ph.D. and/or M.D. degree, a well-funded research program, a national reputation, and a distinguished record of scholarly research and academic activities. The candidate will be expected to maintain an outstanding research program bridging molecular, anatomical and behavioral neuroscience and to administer a comprehensive agenda of Department research and teaching activities. For fullest consideration, interested individuals should submit a curriculum vitae by March 31, 2001 to:

Bellur Prabhakar, PhD, Chair Anatomy and Cell Biology Department Head Search Committee Professor and Head, Department of Microbiology and Immunology, University of Illinois at Chicago **College of Medicine** 835 S. Wolcott (M/C 790) Chicago, IL 60612-7344

The University of Illinois at Chicago is an Affirmative Action/Equal **Opportunity Employer.** Women and Minorities are encouraged to apply.

#### EUROPEAN OPPORTUNITIES



**Phar**maceutical

### Postdoctoral Position

#### Who we are

In F. Hoffmann-La Roche Ltd's preclinical CNS research department, Basel, Switzerland, we look into novel approaches to the therapy of Alzheimer's disease. Major research activities, aimed at reducing or preventing formation of the amyloidogenic Abeta peptides in the brain, are in progress.

#### The position

Biochemical and protein-chemical techniques are applied to investigate the molecular mechanisms involved in endoproteolytic processing of presenilins and amyloid precursor proteins leading to the generation of Abeta peptides. Chemical compounds which inhibit Abeta production are studied and their mechanism of action identified in cellular and in vitro assay systems. The potential of such compounds as lead structures for anti-amyloidogenic strategies is explored. Collaboration with specialists in other areas of preclinical CNS research as part of an interdisciplinary approach and the publication and presentation of research findings are strongly encouraged.

#### Who you are

You have a Ph.D. in biochemistry or molecular/cell biology or equivalent, and a solid background and research experience in biochemistry (subcellular fractionation, immunoblotting, ELISA, proteases) and cell biology (cell culture, stable/transient trans fection). Knowledge of state of the art laboratory instruments/techniques and well grounded experience in data acquisition and data handling on the WindowsNT platform are prerequisites. You are an excellent team player, used to working in a multidisciplinary environment and you speak fluent English.

#### Who to contact

If the above profile matches your background and expenence and you are interested in this challenging postdoctoral position, please send your application, including full supporting documentation, to: F. Hoffmann-La Roche Ltd, Mr Werner Aschwanden, PSPB, 52/205, P.O. Box, CH-4070 Basel, quoting reference: As3732. For further information, please contact Dr Hansruedi Loetscher, phone:

- 0041-61-688 32 59; e-mail: hansruedi.loetscher@roche.com

#### **ANNOUNCEMENTS**



International

Programme



International Geosphere-Biosphere Human Dimensions Programme on Global EnvironmentalChange

World Climate Research Programme

Global Change Open Science Conference

The Earth's environment and habitability are now, as never before, affected by human activities. This conference presents the latest scientific understanding of natural and human-driven changes on our planet. It will examine the effects on our societies and lives, and explore what the future may hold.

### 10-13 July 2001 Amsterdam, The Netherlands



 $C_{\text{HALLENGES OF A}} C_{\text{HANGING}} E_{\text{ARTH}}$ 

Registration and Abstract Submission now open via the Conference Home Page www.sciconf.igbp.kva.se

#### CARDIOVASCULAR RESEARCH FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS University of Virginia

The University of Virginia offers a multidisciplinary training program in basic cardiovascular research. Our special strengths are in the broad area of vascular biology. Thirty-one faculty members are mentoring both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of vascular development, structural biology, cell signaling, vascular cell adhesion, and microvascular function. Laboratory investigations are underway in cell-cell communications in microvessels, cardiac and smooth muscle cell signal transduction, angiogenesis, and leukocyteendothelial cell interactions. Positions are well supported and include stipend, health insurance, and travel to scientific meetings. A special accelerated pro-gram also exists for M.D.s wishing to pursue the Ph.D. Details of the interests of faculty, a description of the program, and application forms may be found on our website: http://www.med.virginia.edu/ medicine/inter-dis/cvrc/. For further information, e-mail: cimcon@virginia.edu. Competitive applicants also may apply directly to: Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 800736, University of Virginia Health System, Charlottesville, VA 22908-0736.

The University of Virginia is an Equal Opportunity Employer. These positions are restricted to permanent residents or citizens of the United States.

#### NEUROINFORMATICS POSTDOCTORAL POSITION AND RESEARCH FACULTY POSITION

Positions are available for a Neuroinformatics Postdoctoral Fellow and for a junior Neuroinformatics Research faculty member at the Yale University School of Medicine. Both positions involve working as part of an interdisciplinary team working on cutting-edge informatics projects as part of the national Human Brain Project in a collaboration between the Yale Center for Medical Informatics and the Yale Section of Neurobiology. Candidates should have computer programming experience. The projects focus on developing neuroscience databases and neuroinformatics tools on related neuroinformatics research.

Please send curriculum vitae, a statement of interests, and the names of three references by e-mail to: perry.miller@yale.edu. Mailing address: Perry L. Miller, M.D., Ph.D., Director, Center for Medical Informatics, Yale University School of Medicine, P.O. Box 208009, New Haven, CT 06520-8009. Telephone: 203-764-6715. Alternatively e-mail: gordon.shepherd@yale.edu. Mailing address: Gordon Shepherd, M.D., Ph.D., Section of Neurobiology, remainder of address same as for Dr. Miller. For more details, see website: http://senselab.med. yale.edu/senselab/. Applications from women and members of minority groups are encouraged.

#### POSTDOCTORAL FELLOWSHIP IN MONKEY FMRI Harvard Medical School at the Nuclear Magnetic Resonance Center Massachusetts General Hospital

We are searching for a Postdoctoral Fellow to do collaborative experiments using functional and anatomical MRI to map cortical function (particularly visual cortex) in awake behaving macaques. MR facilities are excellent, including a 1.5 T and a 3 T scanner at present and another 3 T and a 7 T scanner in the near future. An ideal background would include any or all of the following: experience with awake behaving macaques, computer skills, neural tracer injections, single unit recording, anatonny, and histology. Salary is negotiable but normally \$30,000 to 32,000 per year. Starting date as soon as possible. Please send curriculum vitae and inquiries to: M-FMRI Search, MGH NMR Center, 149 13th Street, Charlestown, MA 02129.

#### POSITIONS OPEN



#### POSTDOCTORAL POSITIONS NEUROSCIENCE AND CELL BIOLOGY

Four **POSTDOCTORAL POSITIONS** are immediately available to study cellular and molecular mechanism of (1) neurotransmitter and hormone release and (2) membrane trafficking. Successful applicants will play integral roles in these highly collaborative, multidisciplinary NIH/NSF-funded projects.

Two Postdoctoral positions are available to study various aspects of stimulus-secretion coupling in chromaffin cells, pancreatic Beta cells, and PC12 cells (Nature **367**:72; PNAS **92**:8328; Neuron **16**:195; EMBO J. **16**:1565; Neuroscience **83**:969; J. Neuroscience 18:6230; 19:3735; and 20:2480). The project involves molecular and cellular investigation of exocytosis and endocytosis with emphasis on the role of the CAPS and dynamin proteins. Domain analysis of these proteins in relation to the in vivo function will be employed. Expertise in molecular biology and/or biophysical methods such as patch clamp, capitance, and amperometric recordings is required. The most important attributes are an interest in secretory biology, self-motivation, and a willingness to work hard. Familiarity with modern methods and previous publication in international journals, as well as good knowledge of English (oral and written), are preferable (Dr. Cristina Artalejo; e-mail: cartalej@med. wavne.edu)

Ťwo Postdoctoral positions are available to study the molecular mechanism of retrograde trafficking (*JBC* 27:17269; *Mol. Biol. Cell.* 10:1837; *Traffic* 1:702). The project involves developing a novel assay and identifying and characterizing the molecular machinery involved in protein sorting, targeting, and recycling from pre-Golgi compartments. Candidates should have experience in cell biology/molecular biology and biochemistry and be proficient in English (oral and written). (**Dr. Ellen Tisdale; e-mail:** etisdale@med.wayne.edu).

Interested candidates should send a brief letter describing research interests, curriculum vitae, and three letters of reference to the appropriate PI at: Wayne State University School of Medicine, Department of Pharmacology, 6374 Scott Hall, 540 East Canfield Avenue, Detroit, MI 48201.

Wayne State University is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL RESEARCHER CANDIDA PATHOGENESIS

A Postdoctoral position is available to study mechanisms of *Candida albicans* pathogenesis. A Ph.D. degree and demonstrated research productivity are required. Candidates with a strong background in molecular biology and biochemistry are encouraged to apply. Salary is commensurate with experience. Please send curriculum vitae and contact information for three references to: L. L. Hoyer, Ph.D., University of Illinois at Urbana-Champaign, 2522 VMBSB, 2001 South Lincoln Avenue, Urbana, IL 61802. Telephone: 217-333-5043; FAX: 217-244-7421; e-mail: Ihoyer@uiuc.edu. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

#### BETH ISRAEL DEACONESS MEDICAL CENTER HARVARD MEDICAL SCHOOL

POSTDOCTORAL POSITIONS available immediately to study the regulation of genes in the endothelium using *in vitro* and *in vivo* model systems. Experience in molecular biology and transgenic/ knockout techniques is preferred. Send curriculum vitae and names of three references to: Dr. William Aird, Molecular Medicine RW-663, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-667-2913; e-mail: waird@caregroup.harvard.edu. Equal Opportunity Employer.

#### POSITIONS OPEN

#### POSTDOCTORAL POSITIONS for Studies of Proteolytic Mechanisms in Neurotransmission and Neurodegenerative Diseases

Postdoctoral positions are available to investigate proteolytic mechanisms required for (1) the biosynthesis of peptide neurotransmitters and (2) Huntington's and related neurodegenerative diseases. Studies will define the proteases and protease inhibitors involved in (1) producing active neuropeptide transmitters (enkephalin,  $\beta$ -endorphin, ACTH, and others) and (2) pathogenesis of the mutant IT15 gene via proteolysis of huntingtin protein in Huntington's disease. Interdisciplinary approaches in molecular biology and genomics, protease/peptide biochemistry and proteomics, and cell biology/gene expression are utilized; a Ph.D. degree with experience in at least one or two of these disciplines is required. State-of-the-art proteomic and genomic facilties are available at the new Buck Institute (website: www.buckinstitute. org) located near San Francisco, California. Projects involve research collaborations with University of California San Diego and University of California San Francisco. Please send curriculum vitae with names of three references to Dr. Vivian Hook, c/o Human Resources, Buck Institute for Age Research, 8001 Redwood Boulevard, Novato, CA 94945. E-mail: hr@buckinstitute.org; FAX: 415-899-1810.

#### POSTDOCTORAL POSITIONS NIH TRAINING PROGRAM IN DIABETES RESEARCH Washington University School of Medicine

Applications are being accepted for Postdoctoral positions in a multi-investigator program to study diabetes and related endocrine diseases. Trainces will be offered opportunities in the following areas: insulin secretion, insulin action, β-cell growth, islet transplantation, autoimmunity, cytokines and B-cell function, glycoprotein oligosaccharides and hormone receptors, atherosclerosis, vascular and neurological complications, glucose transporters, biology of aldose reductase, embryogenesis, and regulation of gene expression. U.S. ditizenship or permanent resident status is required. Salary on NIH scale. Curriculum vitae and three letters of recommendation are required. For information, please contact: Dr. Michael L. McDaniel, Box 8118, Washington University School of Medicine, Department of Pathology, St. Louis, MO 63110. Telephone: 314-362-7435; FAX: 314-362-4096; e-mail: mcdaniel@pathology.wustl.edu Affirmative Action/Equal Opportunity Employer.

SENIOR RESEARCH ASSOCIATE or POST-DOCTORAL FELLOW: developmental biology. An NIH-funded position to examine the role of Hox genes in genitourinary development. Applicants with considerable experience identifying and characterizing protein-protein interactions or target genes via microarray analysis will be given strong consideration. The candidate should have a Ph.D. degree or be able to show evidence of extensive training in the described areas of research. Salary is commensurate with experience. Please submit a letter of interest, curriculum vitae, and the names of three references to: Dr. H. Scott Stadler, Shriners Hospital for Children, 3101 S.W. Sam Jackson Park Road, Portland, OR 97201. E-mail: hss@shcc.org. The Shriners Hospital for Children is an Equal Opportunity Employer that maintains a drug-free workplace.

BIOPHYSICS POSTDOCTORAL POSITION available to study conformational changes in actomyosin and in ion channels. Biophysical and fluorescence techniques at both ensemble and single-molecule levels will be used. See *Nature* 402:813, 1999; *PNAS* 95:15309, 1998; website: www.physics.uiuc.edu/ People/Faculty/Selvin/. Experience in protein manipulation and/or biophysical techniques desired. \$35,000 per year. Send curriculum vitae with list of publications and names of three references to e-mail: selvin@uiuc.edu or Professor Paul Selvin, Loomis Laboratory, 1110 West Green Street, University of Illinois, Urbana, IL 61801.

**POSTDOCTORAL POSITIONS** available immediately in the newly created Division of Neurovascular Biology at the Center for Aging and Developmental Biology, University of Rochester, New York. The Center applies cutting-edge technologies to the prevention and cure of neurovascular disorders and is dedicated to the training of outstanding Scientists. The positions will be fully funded and offer an excellent interactive and collaborative work environment.

Positions: (1) two in vascular dysfunction in Alzheimer's disease (one in cell biology of endothelial transport and one in mouse models of CNS transport pharmacokinetics), (2) one in ischemic stroke (cell biology of clotting/hypoxia), and (3) two in angiogenesis/ vasculogenesis in stroke and brain tumors. Salary commensurate with experience. Applicants should have a Ph.D. or M.D. and experience in one of the areas mentioned above.

Please submit curriculum vitae, brief statement of research interests, and name of references to:

Berislav V. Zlokovic, M.D., Ph.D. Chief, Division of Neurovascular Biology University of Rochester 601 Elmwood Avenue, Box 645 Rochester, NY 14642 FAX: 716-273-3133

E-mail: pamela\_lingeman@urmc.rochester.edu Specify the position for which you would like to be considered.

**POSTDOCTORAL POSITION:** nonlinear dynamics/statistical physics/neurobiology. The Neural Dynamics Laboratory, George Mason University, seeks applications for a one-year Postdoctoral research position starting January 2001. The NSF-funded project applies nonlinear dynamics and statistical physics to coupled neuronal ensembles. Ph.D. in physics, applied mathematics, or related field and nonlinear dynamics skills required; experience with neurobiological data preferred. Please send applications to: Paul So, Krasnow Institute 2A1, George Mason University, Fairfax, VA 22020. E-mail: paso@gmu.edu; Tclephone: 703-993-4387. George Mason University is an Affirmative Action/Equal Opportunity Employer.

USDA, Agricultural Research Service, Soybean Genomics and Improvement Laboratory in Beltsville, Maryland, is seeking a **POSTDOCTORAL RE-SEARCH ASSOCIATE** to determine the function of genes involved in the defense response of soybean to pests and pathogens. Candidates must have a Ph.D. in molecular biology or related field and experience in making gene constructs, gene silencing, and plant transformation. Salary range: \$42,724 to \$51,204 per annum plus benefits. Send curriculum vitae, transcripts, and three letters of reference to: Dr. Benjamin F. Matthews, USDA-ARS, SGIL, Building **006**, Room 118, Beltsville, MD 20705-2350. Email: matthewb@ba.ars.usda.gov. ARS is an Equal Opportunity Provider and Employer.

**POSTDOCTORAL ASSOCIATE** positions available immediately to investigate the molecular mechanisms of viral-induced oncogenesis using recently characterized piscine retroviruses as model systems. Current projects involve characterization of cellular proteins that directly interact with a retroviral cyclin and development of bioassays to screen for compounds that interfere with these interactions. Send curriculum vitae, cover letter, and three references to: **Dr. Sandra L. Quackenbush, Department of Molecular Biosciences, The University of Kansas, Lawrence, KS 66045. E-mail: squack@ukans.edu**. *Equal Opportunity/Affinattive Action.* 

**POSTDOCTORAL POSITIONS** available to study (1) the folding/aggregation and membrane interactions of the recombinant prior protein or (2) the chaperone action of small heat shock proteins. Background in biophysical chemistry of proteins required. Experience in molecular biology would be a plus. Send curriculum vitae to: W. K. Surewicz, Ph.D., Institute of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. E-mail: wks3@pop.cwru.edu.

#### POSITIONS OPEN

POSTDOCTORAL POSITION is available to participate in an established research program addressing the regulation of key enzymes in fatty acid and membrane phospholipid synthesis. The research is focused on understanding enzyme structure/function and the biochemical mechanism of action of novel antibacterial drugs that target lipid biosynthesis. Candidates with a recent Ph.D. degree interested in utilizing contemporary molecular biology, genetics, structural biology, and biochemistry to address problems related to gene expression and the regulation of membrane phospholipid biogenesis in bacteria are encouraged to apply. Applicants should submit their curriculum vitae, reprints, and names of three references to: Dr. Charles O. Rock, Biochemistry Department, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105-2794. E-mail: charles.rock@stjude.org.

#### **RESEARCH FELLOW**

Carolinas HealthCare System, located throughout the Charlotte, North Carolina, area, is a premier multifaceted health care organization whose facilities make up one of the largest integrated health care systems in the United States. We currently have an opening for a **POSTDOCTORAL RESEARCH FELLOW** to study gene expression physiology and biochemistry in models of excess inflammation. A Ph.D. with molecular biology emphasis is required.

For consideration, please contact: Carolinas HealthCare System, Attention: Recruitment Services/SC1117EF, P.O. Box 32861, Charlotte, NC 28232-2861. FAX: 704-444-3099; e-mail: nurserec@carolinas.org (please indicate position in subject line). Visit website: www.carolinashealthcare. org. Equal Opportunity Employment/Affirmative Action.

#### COURSES & TRAINING

#### CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

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#### GRANTS

### PARKINSON RESEARCH GRANTS 2001–2002

The National Parkinson Foundation of Miami, Florida, invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease and related neurodegenerative disorders. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 2001. Funding will be effective as of June 1, 2001, and conclude May 31, 2002. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information, please write or FAX to:

> Paula Conley Programs and Grants Administrator National Parkinson Foundation 1501 N.W. Ninth Avenue Miami, FL 33136 FAX: 305-243-3049

#### POSITIONS OPEN

#### POSTDOCTORAL POSITION

Applications are invited for a Postdoctoral position to study the physiological role of protein tyrosine phosphatases in lymphocyte signaling. Applicants should have experience in molecular and cellular biology. This position will have to be approved by the Science and Technology Agency (website: http:// stafellow.jst.go.jp/index.html) and start after April 1, 2001. Please submit curriculum vitae; description of research interests; and names of three references by November 30, 2000, to: Dr. Hidetaka Yakura, Director, Department of Immunology and Signal Transduction, Tokyo Metropolitan Institute for Neuroscience, 2-6 Musashidai, Fuchu, Tokyo 183-8526 Japan. E-mail: yakura@tmin.ac.jp/ Department/immunology/index-e.htm.

#### ANNOUNCEMENTS

#### ENVIRONMENTAL SCIENCE ACADEMIC MINIGRANTS TO BE AWARDED SPRING OF 2001

Environmental Defense, a national not-for-profit environmental organization, requests letters of inquiry that describe potential proposals for research projects at a maximum cost of \$15,000 related to the following topics: invasive species, marine reserves, aquaculture, ecosystem restoration, endangered species conservation, and climate change. Letters should be no longer than one page and should describe the research topic, its relevance to environmental policy, amount of funding requested, and major expenditure items. Letters are due no later than December 19. 2000. PRINCIPAL INVESTIGATOR must hold the equivalent of a faculty position at a public or private college or university. See the Environmental Defense website: www.environmentaldefense.org/ minigrants/academic. Send letters to: Georgia Pease, Environmental Defense, 257 Park Avenue South, New York, NY 10010. No phone calls, please. Environmental Defense is an Equal Opportunity Employer.

#### THE JUST/GARCIA-HILL SCIENCE WEBSITE www.justgarciahill.org

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